

Self Study Report

for
NAAC - 3rd Cycle
(Volume – I)

Submitted to
The National Assessment & Accreditation Council
Bangalore

Submitted by
Deccan Education Society's
Fergusson College, Pune
Maharashtra

May 2015

About Us

The founders of Fergusson College had first started New English School, Pune in 1880 and later established the Deccan Education Society (DES) in 1884. This was followed by the bold initiative to start a privately managed college in India, on the 2nd January 1885, naming it as the Fergusson College. The name was given in appreciation of the support of Sir James Fergusson, then Governor of Bombay Province and also the first Patron of the DES. Principal William Wordsworth, the grandson of the famous poet, was the master of the ceremony at the inaugural function of the college.

The college received affiliation of University of Bombay and began its onward march in higher education with the opening of the Arts classes, followed in 1892, with the science classes. The college held these classes, for almost ten years, in the old Gadre Wada and other locations in Pune. Presently it is affiliated to Savitribai Phule Pune University, Pune (formerly University of Pune).

The foundation stone of the Main building of the Fergusson College was laid in 1892 and the building was completed in 1895. The college started functioning on this campus in 1895. From then onwards, the college has grown academically and acquired a reputation as nation-building institution. It has a place of pride in the hearts of the people, as a historical monument and a symbol of the country's freedom struggle. While the founders Vishnushastri Chiplunkar, Lokmanya Bal Gangadhar Tilak, Gopal Ganesh Agarkar, Mahadev Ballal Namjoshi and Vaman Shivram Apte have become legends, in the history of education and the freedom struggle in India. It is a matter of great significance, that the college received active and moral support from academicians and statesmen, such as Principal William Wordsworth, Principal F.G. Selby, Lord Rippon, Sir William Wedderburn and Sir James Fergusson.

The emphasis of the founders on '**knowledge**' is aptly reflected in the college emblem, which bears the inscription, '**Knowledge Is Power**'. The '**Garuda**' (the Eagle) in this emblem, symbolizes the youth, soaring with the power of knowledge into a vast sky of challenges and opportunities.

Fergusson College has produced great political leaders, such as two former-Prime Ministers of India, namely P.V. Narasimha Rao and Vishwanath Pratap Singh. Former- Chief Minister Babubhai Patel, former-Minister of Information and Broadcasting, Barrister V.N. Gadgil, Acharya Kripalani, Veer Savarkar, S.M. Joshi and Gopal Krishna Gokhale, who was described by Mahatma Gandhi, as his political guru and mentor, gave a distinctive touch to the college.

All through its 130 years of a shrine like existence, Fergusson College has given to the country, from among its alumni, great patriots, thinkers, philosophers, poets, writers, teachers, social workers, scientists, industrialists, entrepreneurs, researchers, administrators and defense officers. There is no walk of life that has not basked in the sun of the Fergussonian spirit.

About our parent organization- Deccan Education Society (DES)

DES, a renowned name in the educational firmament, is standing at a significant milestone in its cherished history of service to the cause of education. Steeped in the glorious tradition set by its illustrious founders and assiduously nurtured by succeeding generations of devoted Life Members, the Society is an ideal blend of the traditional and the modern. Today, DES is a dynamic conglomeration of well over 45 educational institutions, acknowledged as centres of quality education, with firm commitment to the pursuit of excellence. DES has always been a student centric, teacher-managed organization. The DES looks into future with great optimism and confidence. It will enthusiastically and pro-actively embrace new opportunities of growth and development.

The Main Building

This simple, yet beautiful building symbolizes the entire college. Constructed in the Gothic style with basalt stone (probably quarried from the Fergusson hill) in the early 1890's the foundation stone was laid on the 11th January, 1892 by His Excellency, the Hon'ble George Robert Canning Harris, Baron Harries, G.C.I.E., and Governor of Bombay. The building was designed by Rao Bahadur V.B. Kanitkar, the Honorary Consulting Engineer to DES and it was built at a cost of Rs. 87,500.00. His Excellency, Lord Sandhurst, the then Governor of Bombay inaugurated the building on the 27th March, 1895 and it heralded the dawn of a new era, in higher education. In 1985, Government of India released a postal stamp with a beautiful portrait of the Main Building embossed on it, to commemorate the Centenary of the college.

N.M. Wadia Amphitheatre

The N.M. Wadia Amphitheatre was great vision of Wrangler R.P. Paranjape, the first Principal of the college in the 20th century and the first Wrangler of India. It was made possible by the munificent donations from the Wadia Trust, Prince Aga Khan and many others. The N.M. Wadia Amphitheatre was inaugurated on the 5th September 1912 by Sir George Clarke (later Lord Sydenham) the then Governor of Bombay. It has a seating capacity of 1500 persons. Besides the auditorium, the building has one small and two large classrooms, on the ground floor which house Department of German, French and Political Science. The semi gothic design and the imposing height of the building, imparts to it a unique architectural ambience of historical significance. The Amphitheatre has been the place of birth for several new educational institutes, cultural and literary movements.

The Amphitheatre has been a venue for initiating New Movements like:

- The first All India Women's Conference (AIWC) organized in the Amphitheatre in 1927 and subsequently the Silver, Golden and Platinum Jubilees were all celebrated in the Amphitheatre.

- Children's Science Movement (CSM) was launched at the hands of Prof. Raghunath Mashelkar, the then Director General, CSIR, New Delhi, in 2001. The dignitaries present included Dr. Anil Kakodkar, Chairman, Atomic Energy Commission, Government of India, Professor V.G. Bhide, Former Vice Chancellor University of Pune and founder President CSM and Principal Dr. V.K. Wagh. The inauguration was attended by about 2000 school children from various schools in and around the city and was indeed one of the very grand events held in this auditorium in recent years.
- Theatre Movements: Many theatre movements started in the Amphitheatre. The Purushottam Karandak Spardha (a state level one act play competition) was launched in this hall. Many renowned stage and cine actors and actresses as well as directors of films and documentaries made their career debut on the stage of Amphitheatre.
- The theatre has hosted innumerable public debates during the freedom struggle and thereafter. Notable amongst the speakers, to name only a few were Lala Lajpat Rai, Acharya Kelekar, N.G. Gore, S.M. Joshi and Namboodripada. Many debates and discussions in this auditorium have contributed to the intellectual creativity of the college. Such outstanding and eminent personalities participating in various events are Sir J.C. Bose, Pandit Madan Mohan Malviya, Sir P.C. Ray, Rt. Hon. V.S. Shastri, Nobel laureates Sir C.V. Raman, Guruvarya Ravindranath Tagore and Professor Fowler have addressed the gatherings from the dais of the Amphitheatre.

The Bai Jerbai Wadia Library

The building of the Bai Jerbai Wadia Library, comprising of two floors was completed in May 1929 with a sumptuous donation of Rs. 1.61 lakh from the Wadia brothers and was inaugurated in June 1929 without any formal ceremony.

The entire first floor of the Library serves as a Reading Hall for students and is spacious enough to comfortably accommodate around 400 students at a time. This is perhaps one of the largest Reading Rooms of any library in the State. There are two computational centres with 40 computers with net connectivity for students. The library provides services to students, teachers, scholars, researchers and senior citizens including scholars from abroad. Apart from this, the library also has collection of very old and rare manuscripts like Raobahadur Mandlik and N.B. Bramhe collections. These have been digitized with financial support from National Archives of India, Ministry of Culture.

Botanical Garden

The botanical garden is one of the special features of the college. The garden was established in the year 1902 and located on the eastern side and covers approximately two acres. Plants from 47 families are represented in the botanical garden.

Kimaya

Kimaya is an open air cultural center. Shri. P.L. Deshpande, a distinguished Marathi writer and an alumnus of College, donated Rs. 51,000.00 for raising Kimaya. The idea was to provide a place for the young artists to give performances, their work, short plays, skits, reading of poetry, telling stories and perform musical recitals. This is utilized to fullest extent by students for their extracurricular activities.

The Gymkhana

The Gymkhana earlier known as “Chandvadkar Pavilion” was established in 1910. The college has large play grounds, which meet the requirements of all outdoor games. Facilities for indoor games are also provided. With change in time, the infrastructure for sports has been strengthened with introduction of venture and combat sports. Synthetic basket ball courts and separate gymnasiums for boys and girls are added recently to the infrastructure. The college participates in approximately 32 sports events annually at various levels. There is “Gymkhana Managing Committee” which looks into all issues of sports and caters to needs to students participating in various sports events. There has been considerable number of “Arjun Awards” and Shiv Chatrapatti” awardees. Participation and achievement of students at National and International Level competitions has become regular feature of gymkhana.

The Hostels

The college provides hostel accommodation for boys and girls with all necessary facilities. There are four blocks for boys which can accommodate 450 students and two blocks and one bungalow for girls which accommodates more than 200 girl students. The Boys hostel blocks are located to the north of the campus and the girl’s hostel blocks lies to the east of the campus.

The Residential Quarters

The college has adequate number of quarters on its campus for the teaching and the non-teaching staff. The Principal is provided with an independent bungalow. Other bungalows are meant for the office bearers and teachers of the college. Besides these bungalows, both big and small, there are eight quarters. The residences for the non teaching staff consist of twin bungalows, servant quarters, chawl type quarters and out houses attached to the big bungalows.

The Fergussonians- Firodia Niketan

It was on the auspicious occasion of the Diamond Jubilee of the college in 1945, “The Fergusonions Association” (formerly known as Ex-Fergussonians Association) was born. Ever since then, Fergussonians felt the need for having an office, a meeting place and guest rooms on the college campus to coordinate their activities. The Firodia Niketan, better known as the EFA home, which is the home for ex-Fergussonians on the college campus, met this need. The Firodia Niketan was constructed in 1988, from a generous donation of Rs. 2.5 lakhs from the Firodia family, which have strong educational ties with the college. Donations for this home were also received from many past students and the EFA home finally became a concrete reality. The EFA home has a hall, used for meetings, seminars, guest lectures, yoga training and sometimes even as a lecture hall for our college students. There are four rooms for use by visiting alumni to experience the nostalgia of their student days once again. Since its inception, EFA has always associated itself very closely with the college by organizing academic and cultural programmes which link our glorious history with the promising present. Felicitations of renowned Fergussonians and in some cases celebrations of the birth centenaries of eminent past students are the highlight of its activities.

OUR FOUNDERS



Lokmanya Tilak



Gopal Ganesh Agarkar



Vishnushastri Chiplunkar



Madhav Ballal Namjoshi



Vaman Shivram Apte



Rajarshi Chhatrapati Shahu Maharaj

Vision

We aspire to carry forward the Vision of our founders of providing affordable quality education, while expanding our academic horizons to bring the institution on par with global leaders in the field of higher education.

Mission

Strive for excellence in education in keeping with the motto of the college, "Knowledge is Power" and prepare young minds for imbibing knowledge, skills and sensitivity.

Objectives

- Facilitate value-based holistic learning by integrating traditional and innovative learning practices to match the highest Quality standards.
- Motivate the students to bring out their creative potential and nurture the spirit of critical thinking.
- Equip students with the skills needed to adapt better to the changing global scenario and gain access to multiple career opportunities.
- Provide inclusive education by making it accessible to all sections of society.
- Inculcate a strong sense of nationalism in keeping with the glorious heritage of the institution.
- Sensitize and engage students in issues of gender equality, human rights and ecology in order to make them socially responsible citizens.

Academic Programmes

Degree Programmes at Under Graduate Level		Programmes at Post Graduate Level	
B. A.	B. Sc.	M.A.	M. Sc.
<ol style="list-style-type: none"> 1. Economics 2. English 3. French 4. Geography (not at special level) 5. German 6. Hindi 7. History 8. Marathi 9. Philosophy 10. Political Science 11. Psychology 12. Sanskrit 13. Sociology 	<ol style="list-style-type: none"> 1. Animation 2. Biotechnology 3. Botany 4. Chemistry 5. Computer Science 6. Electronic Science 7. Environmental Science 8. Geology 9. Mathematics 10. Microbiology 11. Physics 12. Statistics 13. Zoology 	<ol style="list-style-type: none"> 1. Economics 2. English 3. Marathi 4. Psychology 	<ol style="list-style-type: none"> 1. Analytical Chemistry 2. Biochemistry 3. Biotechnology 4. Botany 5. Computer Science 6. Electronic Science 7. Environmental Science 8. Geology 9. Microbiology 10. Organic Chemistry 11. Physics
Special Post Graduate Programmes (3 year duration) <ol style="list-style-type: none"> 1. M.C.A. 2. M.Tech. (Industrial Mathematics with Computer Applications) 			
B. Voc Programme in Media and Communication; Digital Art and Animation under National Skill Qualification Framework (UGC and MHRD)			
Vocational Courses at Undergraduate level <ol style="list-style-type: none"> 1. B.Sc. (Physics) with Photography and Audio-Visual Production 2. B.Sc. (Electronic Science) with Electronic Equipment Maintenance 3. B.Sc. (Botany / Zoology / Chemistry) with Biotechnology 			
Certificate Courses <ol style="list-style-type: none"> 1. Women and Development 2. Counseling Psychology 3. Photography 4. German Language 5. Spanish Language 6. American Studies 			
Recognized Research Centres <ol style="list-style-type: none"> 1. Economics 2. Botany 3. Chemistry 4. Environmental Science 5. Electronic Science 6. Geology 7. Mathematics 8. Physics 9. Zoology 			

DECCAN EDUCATION SOCIETY'S FERGUSSON COLLEGE, PUNE

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**Deccan Education Society's
FERGUSSON COLLEGE, PUNE**

NAAC - 3rd CYCLE

STEERING COMMITTEE

Dr. Ravindrasinh Pardeshi
Chairman

Dr. Sameer Terdalkar
Co-ordinator
Steering Committee

Members

Dr. Nitin Kulkarni

*Vice Principal,
Faculty of Science*

Shri. Prakash Pawar

Vice Principal, Faculty of Arts

Dr. Shobhana Abhyankar

Vice Principal, Faculty of Arts

Dr. Sachin Khedkar

*Vice Principal,
Faculty of Science*

Dr. Jayawant Awaghade

Registrar

Criterion-I

Dr. Chitra Sreedharan
Dr. Meenakshi Suresh

Criterion-II

Dr. Nitin Kulkarni
Dr. Tanuuja Marathe
Smt. Meghna Kulkarni

Criterion-III

Dr. Shankar Laware
Smt. Sunita Pande-Gupta

Criterion-IV

Smt. Swati Jogalekar
Smt. Vrushali Limaye

Criterion-V

Dr. Shobhana Abhyankar
Dr. Megha Deuskar

Criterion-VI

Dr. Nitin Kulkarni
Dr. Sachin Khedkar
Smt. Shubhangi Thakar
Dr. Parbati Bandyopadhyay

Criterion-VII

Dr. Sanjeev Nalawade

Departmental Evaluative Reports

Smt. Aparna Vaidyanathan
Dr. Parbati Bandyopadhyay
Dr. Meenakshi Suresh

Preface

Fergusson College was assessed and accredited by National Assessment and Accreditation Council (NAAC), Bangalore in September, 2003 and awarded an 'A' Grade on **8th January, 2004**. The Internal Quality Assurance Cell (IQAC) was established on the recommendations of the Peer Team for enhancing the quality of academics in the college. On **28th March, 2010**, the college was assessed and accredited for its second cycle by NAAC, Bangalore. NAAC awarded 'A' Grade to the college with **3.26** CGPA. The college offers professional, vocational and basic programmes with wide academic flexibility from undergraduate to research level in Arts and Science faculties. All the programmes are directed towards realization of our Mission and achieving our objectives, in keeping with the values of **Deccan Education Society (DES)**, as propounded by its founders. The college is among **Top Ten Colleges in India**. The college is privileged to have students from more than 30 countries of the world.

During the past few years, PTR recommendations were attended to and the college has made tireless efforts to comply with those recommendations and in addition more efforts have been taken in that regard. The PTR allowed the college to introspect and improve on quality parameters. A more functional IQAC with defined roles and responsibilities was a major initiative taken by the college. More teachers were involved in preparing the SSR along with the IQAC. Introspections and discussions amongst teachers have helped in preparing a precise Self Study Report (SSR).

The college has witnessed many changes during the last five years. Some experienced teachers retired and the next generation of teachers have taken over the responsibility of carrying forward the tradition and legacy of the college. Some new academic programmes like B.Sc. Animation and B.Voc. were initiated and are being conducted successfully. This has also given an opportunity to invite and interact with experts from various fields who shared their knowledge and helped in expanding our academic horizons and enhancing the overall quality of teaching-learning.

Resource mobilization from various funding agencies was taken up as a major strategy to improve the infrastructure, augment teaching-learning facilities and allocate projects to students to make learning more 'student centric'. The college was awarded 'College with Potential for Excellence' by the UGC, which gave impetus to all the activities of the college. This motivated teachers to march towards excellence by redefining the teaching-learning process. The college was also awarded DST-FIST by Ministry of Science and Technology, which enhanced the infrastructure for research. Programmes like DBT (Department of Biotechnology, Ministry of Science and Technology)-STAR scheme have focussed on additional skill development amongst undergraduate students. Research endeavours have been geared up in the last five years with increased participation of students and teachers in research with a greater number of major and minor research projects being funded by different funding agencies. The '**Social Outreach and Enabling Centre**' is now working in collaboration with more NGOs and CSOs (Civil Society Organizations) for more effective and meaningful community service. These programmes have sensitised students and provided opportunities for experiential learning.



On the administrative front, a separate office for self financing programmes was established to cater to all the administrative needs of self financing programmes. A Language Laboratory has been set up for enhancing communication skills and is being utilized by language departments. A dedicated 'International Students' Facilitation Centre' has also been established to address all issues related to international students. IT infrastructure is being continually improved, with voice and data connectivity available all around the campus. All the departments are connected with internet through a lease line of 22Mbps. A new ERP system (Governing Educational Management System) has been implemented for streamlining administrative and academic procedures.

However the ethos, the commitment to quality education and the urge for self-improvement remain the same.

The preparation of SSR involved a new team and they have taken efforts to prepare the SSR. The SSR is divided into two volumes. The first volume includes the Preface, Executive Summary, SWOC of the institution, Profile of the college, Criterion wise inputs, Post Accreditation Initiatives, and Evaluative Reports of the Departments. The second volume provides the Annexure supporting the data provided in the first volume. The SSR has been shared with teachers, students and the Management at every stage of its preparation and finalization.

I take this opportunity to express my sincere thanks to each and every individual colleague for their valuable contribution in preparing the SSR. I express my deep sense of gratitude to the Chairman of the Governing Body of DES, Dr. Ajit Patwardhan and Vice Chairman of DES, Shri. Vikas Kakatkar for their undaunted support in all the endeavours of the college. Shri. Kiran Shaligram (Chairman, LMC) and members of LMC have always been a source of support and inspiration. I am also thankful to Prof. Anand Bhide, Secretary, DES for his whole hearted support.

I would also like to acknowledge the tireless efforts of the IQAC members and all seven Criteria In-Charges, Heads of Departments, Members of the Steering Committee and all teachers for their support in our journey towards excellence. The IQAC Co-ordinator, Dr. Sameer Terdalkar and Dr. Parbati Bandyopadhyay, Secretary, IQAC, have played a pivotal role in propagating quality initiatives in the college and rejuvenating IQAC. Dr. Jayawant Awaghade, Registrar and his team have responded very well and worked very efficiently in providing data to the Steering Committee.

I am extremely happy that the entire work of preparation of SSR has helped in defining policies, strategies, systems and procedures in a better way to serve as a blueprint for further growth and development of the college.

Dr. Ravindrasinh G. Pardeshi

PRINCIPAL

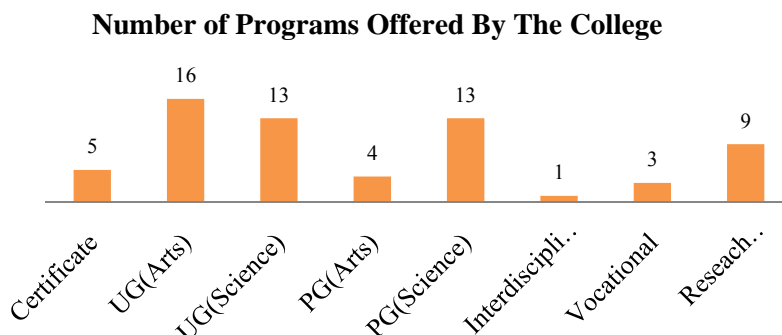


EXECUTIVE SUMMARY and SWOC ANALYSIS

I. Curricular Aspects

The college has professional, vocational and basic programmes with wide programme options right from UG, PG to Research level in Arts and Science faculty. Programmes are directed at realizing our Mission and achieving our goals in keeping with the values propounded by the founders of Deccan Education Society (DES), our parent organization.

- The college is affiliated to Savitribai Phule Pune University, Pune. The curriculum, admissions and evaluation processes are followed as per the norms and rules as prescribed by the State Government and the University.
- The syllabi have been prepared by the University and college faculty members in consultation with experts from industries, research organizations and national institutes. Most of the teachers participate in the process of restructuring of the syllabi as Members of Academic Boards, Boards of Studies, and subject experts or as members of Sub-Committees. The college has organized **06** workshops on revision of syllabi and implementation.
- Responding to the changing needs and market demands, the college offers programmes such as Biotechnology, Computer Science, Environmental Science and Microbiology, vocational courses such as Electronic Equipment Maintenance and Photography and Audio Visual Production. In addition to the above, the college has started two innovative academic programmes viz., Undergraduate Programmes in Animation and Bachelor of Vocation Degree programme in Media and Communication and Digital Art and Animation. Certificate Courses in American Studies, Counselling Psychology, German, Spanish and Women and Development (in collaboration with SPPU) are also available for students.
- The college has adopted a liberal policy by way of providing a wide range of subject combinations, optional papers and interdisciplinary, vocational and professional courses. The college offers programmes from UG to Ph.D. level. At UG level the college offers **16** subjects with **12** programmes in Arts and **13** programmes in Science. At PG level, 4 programmes are available in Arts and **11** in Science, besides M.C.A. and M.Tech. The college also offers special degree programmes in B.Voc. in Digital Art and Animation and Media and Communication. **03** vocational courses and **05** Certificate courses are also offered by the college.

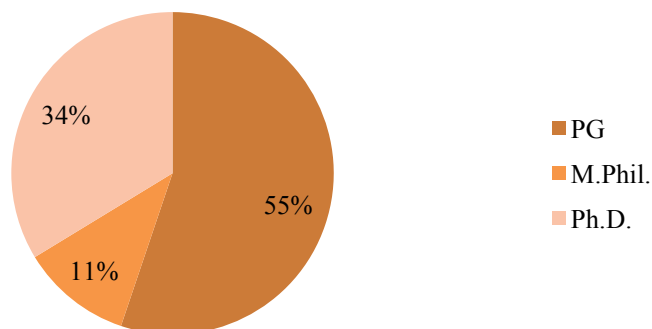


- There are **10** groups with **17** subjects (English is compulsory) available at F.Y.B.A. A student has to select any **6** subjects in all with one language, besides Compulsory English being mandatory. In addition, **6** of the given subjects are taught in Marathi to cater to regional needs. The same number of subjects is available at S.Y.B.A. also. A student has to select one subject (consisting of 3 papers) at Special level, **2** at general level besides **1** compulsory English course. **12** options are on offer at Special level.
- There are **10** subjects for General Science and **3** for professional programmes. **6** subject combinations are available at F.Y.B.Sc. So there are **12** options for choice of subject. There are **21** subject combinations available at S.Y.B.Sc. and students choose their Special subject at T.Y.B.Sc. level out of **10** available options.
- The curriculum is implemented in a systematic manner with allocation of courses and methodologies to be followed for teaching given by the department. The departmental time table is prepared after the central time table is finalised. Finally teachers submit the teaching plan.
- Records of teaching and other activities of teacher are maintained in the “Teachers’ Diary” and audited at the end of each semester.
- Traditional modes of teaching-learning are blended with reasonable use of ICT to make the process learner centric. Necessary infrastructural support is provided to teachers.
- The concept of “Add On practicals” was propagated through DBT-STAR college scheme. Students were offered additional practicals apart from their prescribed curriculum. In addition to this, “Hands On” training workshops were organized to get acquainted with basic and advanced techniques.
- Students of professional programmes undergo on-the-job training (OJT), Observation Internship Programme (OIP) in Psychology which benefits them a lot and enhances their employability after graduation / post-graduation.
- The college is a preferred destination amongst international students. An independent ‘International Students’ Cell’ was established in the year 2007 to cater to the special needs of international students, and it has been converted recently into the International Students’ Facilitation Centre.
- Realizing the need for knowledge-based and market-oriented courses, the college has applied for Autonomous Status to SPPU, Pune.

- Our efforts and plans have, therefore, been directed at continually creating and upgrading our own autonomous programmes, based on the feedback from our stakeholders. It would help to continually develop, test and use market-oriented curricula, to examine their diversity and flexibility as well as content, relevance and delivery.

II. Teaching - Learning and Evaluation

Qualification of Teaching Staff



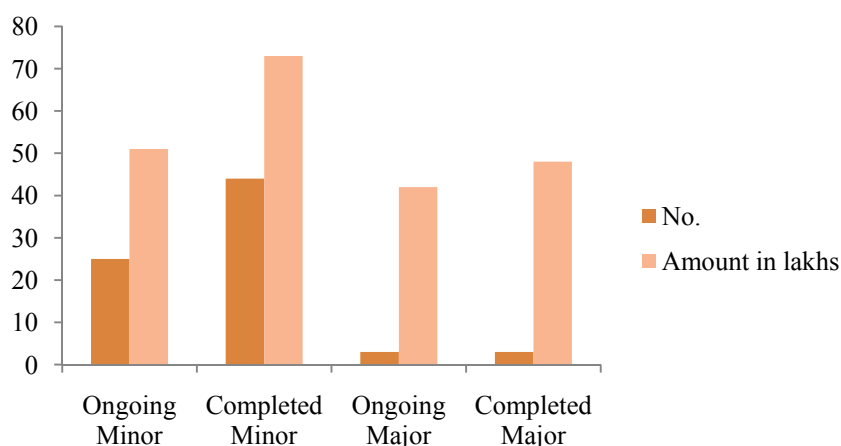
- The admissions to various classes/programmes are made in accordance with the procedures prescribed by the State Government and SPPU. Due publicity of the admission programme is made by displaying detailed notifications of admission programme on college notice boards as well as on college website (www.fergusson.edu) ahead of the schedule. This helps the prospective candidates from all over the country as well as abroad to gain easy access to the admission process. Online admission form-filling facility as well as declaration of merit list on college website helps in maintaining transparency.
- On the campus, counselling is provided to all the candidates approaching the counselling centre. This centre works round the clock during the admission period at a prominent location on the campus. Help and assistance is offered to all the students in selection of subjects with special attention being given to socially and physically challenged candidates.
- The college has made efforts to shift the balance of higher education from the '**teacher-centric education**' to '**student-centric education**', by supplementing the traditional learning practices, with the use of innovative learning techniques. This is made possible by:
 - (a) Conducting special **Bridge and Remedial Courses** for the beginners in French, German, Sanskrit and Mathematics so as to bring them on par with the students who already have knowledge of these languages.
 - (b) Helping the academically disadvantaged students by arranging revision lectures and practicals.

- (c) Challenging advanced learners to work ahead of the rest by involving them in research oriented activity and carrying out surveys, data collection and analysis.
 - (d) Enriching the learning experience of the students, through subject association activities, such as group discussions, guest lectures, study tours, lecture / essay / poster competitions and class presentations.
 - (e) Offering optional vocational subjects in Biotechnology, Electronic Equipment Maintenance and Photography & Audio-Visual Production.
 - (f) Making the learning process more interactive and dynamic with greater participation of students.
 - (g) Supplementing lectures with various teaching aids, such as demonstration apparatus, models, charts, slides and use of ICT. Teachers have developed their own e-resources in some subjects. Language Laboratory has been established for enhancing communication skills.
- Our parent organization (DES) has established “Fergusson Centre for Languages”, which offers short term Certificate courses in foreign languages like German and Spanish. These courses have picked up very well with modules available for beginners as well as advanced learners.
 - Obtaining student feedback on the performance of teachers is a regular practice. The feedback system is partially on-line and will be made fully on-line from the next academic year.
 - Students of Photography have produced audio-visual teaching aids in the form of short films on various urban issues.
 - The college is co-host with UGC-INFLIBNET for e-PG Pathshala project for e-resource generation in Electronic Science. Apart from this, teachers have prepared their own course material in the form of e-resources. These are made available on the intranet.
 - The learning experiences of our students are enriched through the activities organized by subject associations such as group discussions, guest lectures, study tours, lecture/essay/poster competitions, ‘Wall Papers’ and hobby club. More emphasis has been placed on learning skills such as conducting surveys on social issues, data collection and presentation.
 - With a view to sharpening the skills of our students, the college is continuously in the process of devising and evolving the evaluation system by making value additions to the common evaluation pattern offered by the university, which is qualitative and quantitative. Choice based credit system has been implemented for all post graduate programmes. This system is based on the performance of the students at viva voce, seminars, projects, group discussions, home assignments and open-book tests conducted at the departmental level.
 - In keeping with the changes and aspirations of the young generation of students and their teachers, there are initiatives in terms of additions in infrastructure, facilitating adoption of ICT enabled teaching learning methods. The management has also been pro-active in investing on the

necessary hardware and software. Thus, there are a total of **13** AV halls with DLPs.

III. Research, Consultancy and Extension

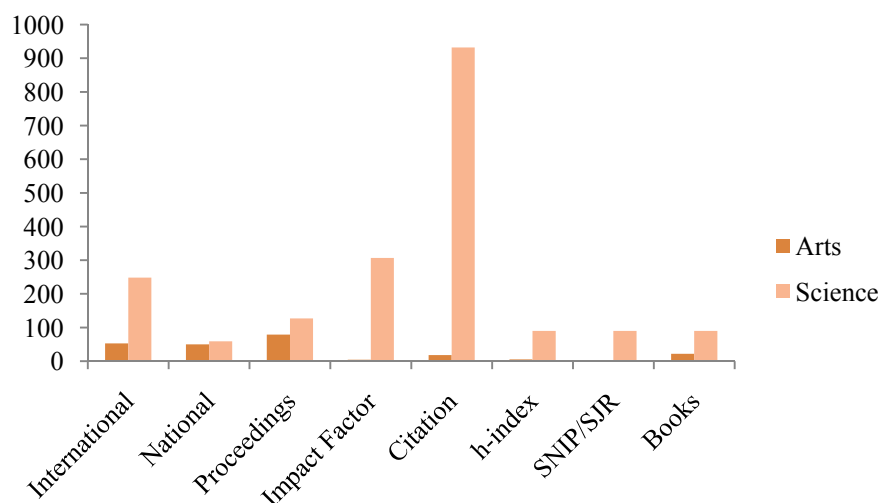
- In recognition of the importance of research and consultancy, particularly the value addition it can provide to teaching, which is the core activity of the college, Fergusson College has made conscious efforts towards further promotion of research on the campus.
- The Research Committee facilitates and monitors the research activities. The committee provides all kinds of procedural and practical support to researchers. The committee also looks into Ph.D. admissions and registration procedure and ensures the required infrastructure is available. The committee also conducts orientation programmes for new researchers who wish to avail research grants from various funding agencies.
- DST, ISRO, BRNS, UGC and SPPU are the external agencies providing a major part of the research funding. The college also provides research/ project grants to the students through UGC-CPE and UGC-BSR schemes. These projects are carried out by the students under the guidance of their teacher(s). Their work has been published in journals of National repute as well as presented in National Conferences.
- **60** teachers are involved in research activity. **35** Teachers are recognized as guides for M. Phil. /Ph.D. degrees.
 - (a) Over the past five years, **42** minor research projects have been successfully completed with an outlay of **Rs. 73,74,500.00** and **27** minor research projects are ongoing with an outlay of **Rs.51,00,000.00**
 - (b) **03** Major research projects have been completed with an outlay of **Rs. 48,00,000.00** and **03** projects are ongoing with an outlay of **Rs.42,54,250.00**



- (c) A total of **616** research papers have been published. Out of which **301 papers** are published in International journals, **109** in National journals and **206** in Conference Proceedings.

(d) A total of **112** books (20 International & 92 National) have been authored by our teachers and **43** chapters have been contributed to books.

Details of Publications



(e) A total of **08** patents have been filed, out of which **04** have been obtained and **02** have been published; **02** are filed.

- There are **09** Research Centres viz. Botany, Chemistry, Economics, Electronic Science, Environmental Science, Geology, Mathematics, Physics and Zoology departments are recognized by SPPU. Research work is also actively carried out in other departments of Biotechnology, Microbiology, Psychology and Marathi. Efforts are on to procure Research Centre recognition for the department of English and Psychology.
- Teachers are encouraged to undergo training and collaborative research with National Institutes and International Universities. Teachers utilize special leave for long durations. **02** teachers from Physics were visiting fellows at JNCASR, Bangalore and **01** teacher from German department was visiting fellow with University of Gottingen, Germany. Teachers also participate in week long training sessions to update their professional skills at Centres of Higher Learning and Excellence.
- The college is recognized by Department of Science and Technology (DST) under FIST (Funds for Improvement of Science and Technology) Scheme. The first instalment of Rs. **70.00** lakhs has been utilized for addition of high end instruments/ equipment for enhancing research in science departments. Part of the funding is also utilized for setting up of Computational centre with net connectivity for students.
- Teachers and students have been consistently participating in National level Research Festivals (AVISHKAR AND ANVESHAN) and have been awarded first and second prizes at Zonal and State Level Competitions consistently.
- **01** teacher from Chemistry has been awarded “**Wesley Cocker Award**” (awarded to early career Scientist) for research on

“Organocatalysis” contributing to Irish Industry. The award is given by “Society of Chemical Industry (SCI)” of All Ireland Group.

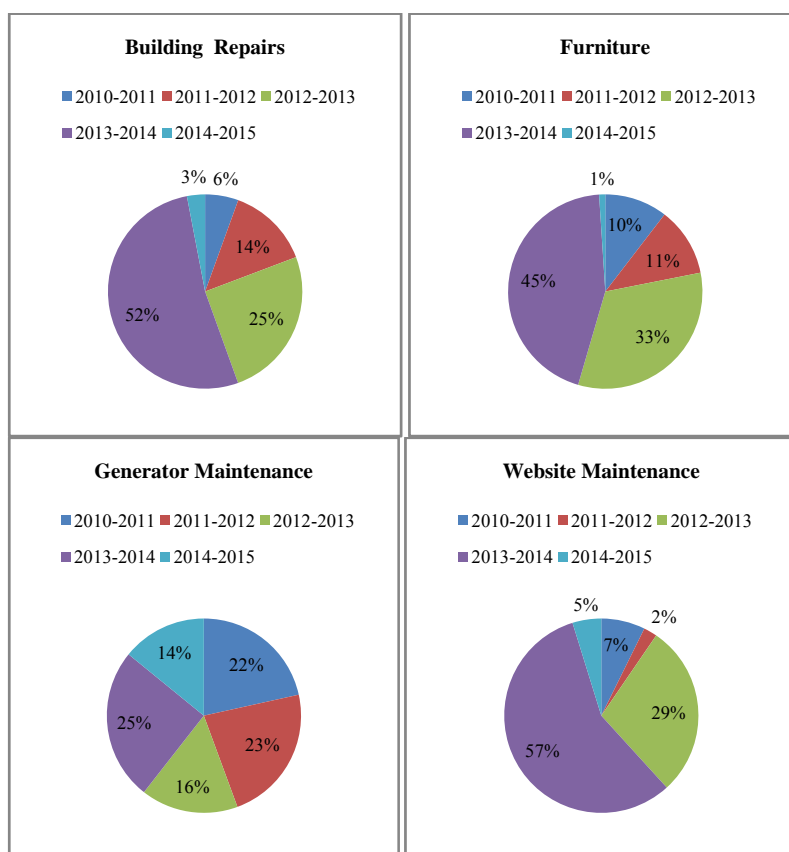
- A teacher from Electronic Science participated in “Explore Automation Award – 2015”, an International Project Competition at Hanover Trade Fair, Germany. The project was related to e-waste management and sponsored by “Phoenix Contact Company”, Bloomberg, Germany.
- A unique project - TARA Observetory is being worked out by Astrophysics Club which proposes to combine a highly configurable robotic telescope array with an innovative sensor array network in collaboration with Cork Institute of Technology, Irland. The college would be TARA FC Node which would be the only centre in India for such programme.
- The college has organized **03** National seminars, **02** International Conferences, **01** International Mathematics Exhibition, **07** National Conferences and **04** State level conferences/workshops.
- Consultancy services are mainly offered in the areas of geological studies, hydro-carbon industry and geophysical investigations. Stress management and personal counselling services are offered by the Department of Psychology. Consultancy to Crime Investigation Department has been provided by Department of Photography in the field of Forensic photography.
- Collaborations with different National and International Institutes/ Universities have been proactively followed for the purpose of Internships, On job Training, Faculty Exchange and Development, Research, Extension and Outreach and Placements. Formal tie ups are with Science and Technology Park, SPPU, IUCAA and ZSI. College also has a formal tie up with International Universities such as Glasgow Caledonian University, UK, Penn State University, Harrisburg Campus, USA and Elon University, USA.
- The Social Outreach and Enabling Centre (SOEC) of the college that was established after the second cycle of NAAC gives an opportunity to students to work with various civil society organizations. Linkages with **17** such organizations have helped to sensitize students towards their social responsibilities and equip them with skills needed for the same.

IV. Infrastructure and Learning Resources

- The college has spacious, well lit and ventilated classrooms and laboratories. All science departments are housed in independent buildings and have well equipped laboratories.
- There are **50** laboratories for general programmes and **15** research laboratories. Apart from this, there is “**Language Laboratory**” and **01** Central Instrumentation Laboratory. A separate “**Astrophysics**” laboratory has also been set up.
- State of art infrastructure for Biotechnology, Computer Science, Electronic Science, Environmental Science and Microbiology departments. Recently, well-equipped laboratories for Animation have been set up. These laboratories have “Work Station” for editing/

mixing/special effects and licensed copies of ADOBE suite, AutoDesk 3D MAX and MAYA have been installed.

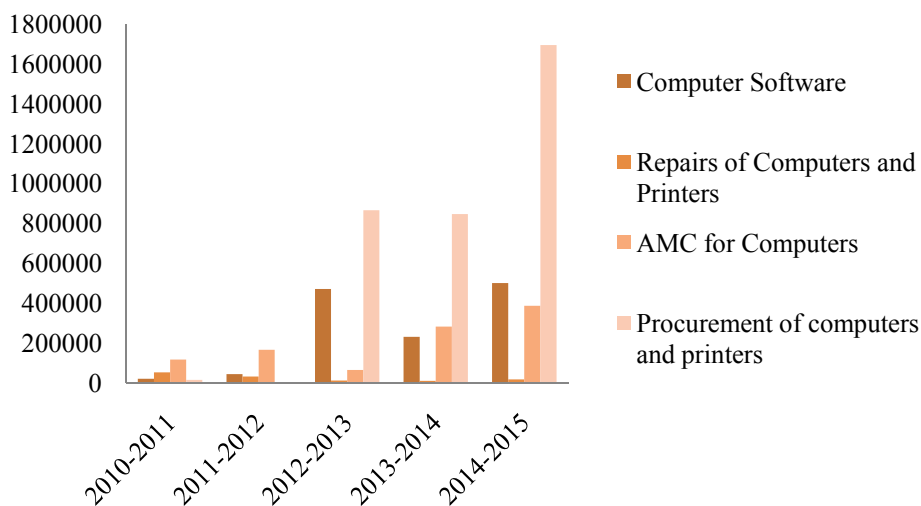
- Infrastructures in the laboratories of Botany, Chemistry, Electronic Science, Geology, Mathematics, Physics, Statistics and Zoology were upgraded through funding of UGC under BSR Scheme (**Rs.8,79,000.00**) with equal financial contribution coming from DES.
- Amphitheatre, an open air theatre ‘Kimaya’ and **01** recreation hall are available for co-curricular and extra-curricular activities. The Amphitheatre has been fully renovated by DES. One open air theatre has been created in the academic complex for extra-curricular activities.
- Electrification, renovations of roofs of departments, furniture for computational centres, renovation of girls’ hostel, LED street lamps, waste water recycling plant and solar panels in Girls’ hostel and Electronic Science laboratories have been done with funding of **Rs.4,02,27,289.00** from DES and **Rs. 3,17,5000.00** from UGC-BSR and DST-FIST grants.



- **02** play grounds, **07** tennis courts, **01** badminton hall, **02** basket ball courts, **01** volley ball court, **01** Boxing Hall, **01** Judo Hall and **01** Table-tennis Hall are available for students. The basket ball court has been transformed into a synthetic court with funding of **Rs. 18.00 lakhs** from DES. **02** gymnasiums separate for boys and girls have been added to the Sports infrastructure.
- Hostels (**358** rooms for boys and **84** for girls) for students and residential quarters (**50**) for staff are available on campus.

- **02** generators of **120KVA** are available for the campus. In addition to this some laboratories like Computer Science, Electronic Science, Statistics and Library have UPS system for continuous supply of electricity.
- There are **794** computers, out of which **549** have net connectivity. **243** computers are without net connectivity. There are **167** printers and **08** servers. **02** computational centres have been established with **20** computers each in the Central Library and made available for students. All the buildings in the campus are Wi-Fi enabled.

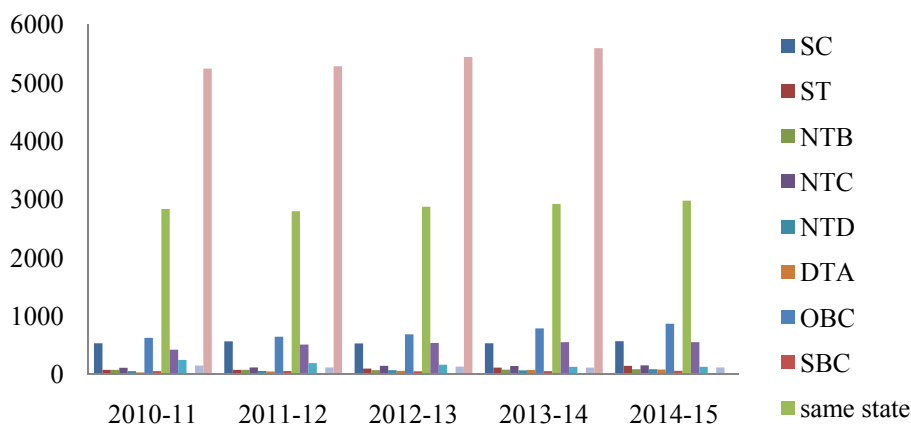
Amount Spent on Maintenance of IT Infrastructure



- The B. J. Wadia Library has a collection of 1,76,372 books, including some rare collections. Majority of these books are bar-coded and library services are automated. Very old and rare collections are digitized with funding from DES and National Archives of India. **14** departmental libraries have now been automated.
- A separate space in the Central Library is reserved for students with visual disability. **05** computers with **JAWS 13** software and Braille books are available for these students.

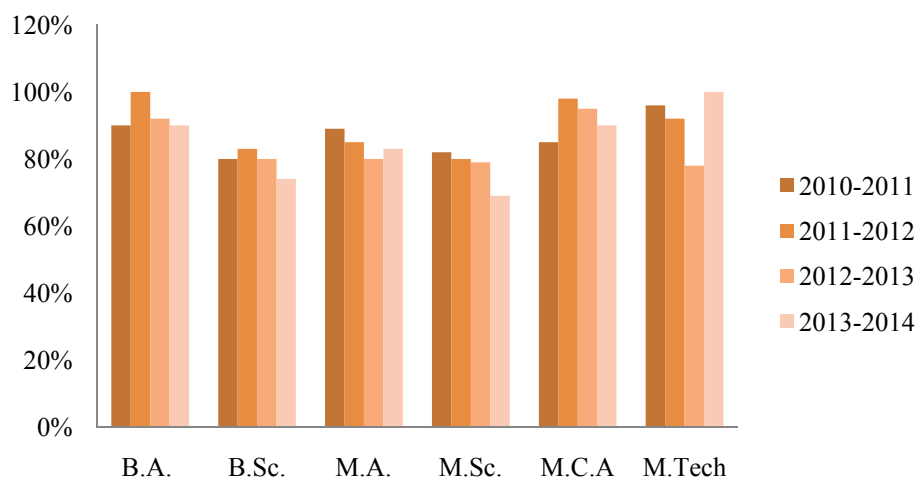
V. Student Support and Progression

Diversity of Students



- Student profile of the college represents all sections of the society including economically weaker sections and international students.
- The passing percentage of college students is about 80%, which is above the university average.

Student Results



- The college provides support for slow learners and bridge courses are conducted in some subjects like German, French, Sanskrit, Microbiology, Mathematics and Economics.
 - The college has a “Placement Cell” with almost 100% placement for computer science and M. Tech Programmes. Every department has a “Placement Coordinator” who helps in coordinating activities of the “Placement Cell”. The Cell carries out Pre-Placement as well as Placement activities.
 - Every department makes an effort to enhance skill development amongst the students by organizing skill development workshops/ lectures/ modules for both undergraduate and post graduate students.
 - The college has “**Industry-Institute**” interaction Cell. This Cell provides a platform for interaction between the students, teachers and the industry.
 - Student progression towards higher studies has increased to 45% during the past five years. About 45% of Computer Science PG students go for employment through efforts of the “Placement Cell”.
 - Coaching classes for UPSC, MPSC, NET/SET were also conducted for some subjects like Economics, English, Marathi, Chemistry, Physics, Electronic Science and Life Sciences.
 - Alumni association, well-wishers and Government motivate students in many ways and also encourage them by giving prizes both for academic and extracurricular activities.
- (a) More than **160** endowments amounting to more than Rs. 2,00,000.00 are given every year. **367** students have been awarded with different endowments during the past five years.
 - (b) **50** different Government (State and Central) scholarships and freships are given every year.

- (c) Apart from the above, under UGC XI Plan (Colleges with higher proportion of SC/ST students), **52** students were given Rs.2000.00 each as financial support for purchasing books and stationery.
- (d) Fergusson College students are covered under students' insurance scheme of SPPU.
- (e) All resident students are provided "**Mediclaim**" Insurance at the time of admission in the hostel. In case of major/ serious illness, the medical treatment is initiated immediately.
- (f) The college publishes an annual magazine called "**Madhyam**" with contributions from students and teachers. The students of Astro Club publish biannual science bulletin "**Dimensions**". Students of Geology publish an e-magazine "**Conglomerate**" which is biannual.
- (g) The college also has "**Astro Club**" for the last eight years. The activities of the club include organization of national seminars/ conferences and sessions on various aspects of "Astrophysics". The club organizes programme on Space, Transit of Venus, Black Hole Systems and Frontiers in Astronomy.

VI. Organization and Management

- The college is governed by DES. The Governing Body (GB) and Local Managing Committee (LMC) provide a roadmap and general guidelines for quality policy to create a conducive environment for teaching-learning.
- The LMC along with IQAC monitors and evaluates all mechanisms of academic and administrative processes.
- The LMC and IQAC are involved in communicating and reviewing the policies and action plans to all the stakeholders.
- The faculty is actively involved in academic decision making process through the "Departmental Committees".
- The college authority has appointed and empowered Vice Principals and Heads of the Departments with adequate autonomy in academic processes.
- The IQAC ensures that, whatever is done in the college for 'education' is done efficiently and effectively with high standards. For every quality initiative, operational features are well planned before implementation.

VII. Innovations and Best Practices

Innovations: Nurturing the Spirit of Scientific Inquiry

Consistent and conscious efforts are undertaken to inculcate the spirit of scientific inquiry that would lead to innovations. The Research Coordination Committee of the college has played a key role in encouraging research by providing infrastructure and administrative support. Students have undertaken 236 short term research projects under the Special Teacher and Researcher Programme (STAR) as part of UGC-CPE scheme. Teachers have undertaken 75 minor and major research projects worth Rs.2,15,28,750.00. Students and teachers participate

enthusiastically in the university research festival ‘Avishkar’ and have won several prizes. Model for Arts and Science Teachers (MAST) provided inputs on innovative methods of teaching.

Best Practice I: Mapping Campus Biodiversity

Fergusson College campus is rich in biodiversity. For several years, the college has been making efforts to document and preserve it. Student members of Rangers’ Eco Club have been monitoring biodiversity on the campus since 2008. The groups covered were plants, butterflies, spiders, reptiles, birds and mammals. Many teachers and students from Zoology, Botany, Geology, Environmental Sciences and Geography have been working on various biodiversity related topics on the campus as a part of UGC-CPE activity.

Best Practice II: Fostering Social Responsibility

The Social Outreach and Enabling Centre was started in 2011 to instill a sense of social responsibility amongst students and engage them in meaningful community service. Approximately 700 students have worked in 18 civil society organizations with disadvantaged groups like women, street children and persons with disabilities. They conduct surveys, organise awareness campaigns, clothes, toys and books collection drives and aid in counselling activities.

Fergusson College is possibly the only college in Pune that has an International Students’ Facilitation Centre. It addresses the needs of international students and helps them adapt to the college milieu. Its activities include organising orientation programmes, city tours, workshops besides the annual cultural programme, Panorama, which is very popular amongst the student community.

Best Practice III: Towards Gender Equality

The college is committed to the cause of gender equality and has undertaken several programmes that are academically oriented, awareness oriented and action oriented. Academic programmes include a certificate course in “Women and Development” since 2006, 8 student research projects and 20 workshops. Awareness oriented programmes include 5 street plays, poster exhibitions, participation in International Fortnight for preventing Violence against Women and the like. Action oriented programmes include campaigns like ‘Men against gender violence’ and ‘Combating female foeticide’. Women’s Safety Audit of college campus was conducted to make the campus safer for women.

SWOC Analysis

Strengths

- Brand reputation to attract the best talents amongst students and teachers
- Lively cosmopolitan atmosphere with students from all over India and abroad
- Diversity of courses/subjects on offer
- Valuable collection of books and manuscripts in Central library- latter available on cloth and inscribed palm leaves and, now in digitized form too
- Research activities have gathered momentum with increase in number of patents and publications during last five years
- Consistently amongst Top Ten colleges in country in both Arts and Science streams as per **India Today** rankings

Opportunities

- Achieving Autonomous status
- New skill-development and vocational courses
- More funds for research projects
- Era of collaborations: Industry-academia, National and international level institutions and organisations
- Short term internships with media houses, NGOs and legal professionals for Arts students
- Growing demand for newer learning modules from different segments of society

Weaknesses

- Curriculum not in sync with contemporary needs or global standards due to constraints of University-prescribed curriculum
- Classroom crunch during peak period. Not all classrooms are ICT-enabled
- Need to improve basic amenities such as sanitation and drinking water
- Only a few departments have national/international collaborations
- Conventional evaluation methods for many University programmes
- Great pool of alumni, but weak alumni network

Challenges

- Stiff competition from both upcoming and established institutions
- Financial self-sufficiency
- Adjusting to rapidly-changing socio-economic and technological environment
- Reducing trend of students taking admissions in traditional degree programmes
- Technical constraints on employing new teaching and non-teaching staff
- High cost of maintenance of infrastructure



(A) Profile of the Institution**1. Profile of the Affiliated / Constituent College**

1. Name and Address of the college

Name	Deccan Education Society's Fergusson College, Pune	
Address	Fergusson College Road, Shivajinagar	
City – Pune	Pin - 411 004	State - Maharashtra
Website	www.fergusson.edu	

2. For communication

Designation	Name	Telephone with STD code	Mobile	Email
Principal	Dr. Ravindrasinh Pardeshi	020-30866001	09225340906	principal@fergusson.edu
Vice-Principal	Dr. Nitin Kulkarni	020-30866043	09225340987	nmkulkarni@fergusson.edu
Vice-Principal	Shri. Prakash Pawar	020-30866132	09822953132	politicshod.fc@gmail.com
Vice-Principal	Dr. Shobhana Abhyankar	020-30866051	09225340977	sca.psychology@fergusson.edu
Vice-Principal	Dr. Sachin Khedkar	020-30866699	09225340908	khedkars@gmail.com spkhedkar@fergusson.edu
Steering Committee Coordinator	Dr. Sameer Terdalkar	020-30866603	09822184006	sterdalkar@fergusson.edu fc.iqac@fergusson.edu

3. Status of the Institution

Affiliated College	✓
Constituent College	-----
Any Other (specify)	-----

4. Type of Institution

a. By Gender

i. For Men	-----
ii. For Women	-----
iii. Co-education	✓

b. By Shift

i. Regular	✓
ii. Day	----
iii. Evening	----

5. It is a recognized minority institution?

Yes	-----
No	✓

6. Sources of funding

Government	----
Grant-in aid	✓
Self-financing	✓
Any other	-----

a. Date of establishment of the college: **02/01/1885**

b. University which the college is affiliated / or which governs the college (if it is a constituent college)

Savitribai Phule Pune University, Pune, Maharashtra

c. Details of UGC recognition

Under Section	Date, Month & Year (dd-mm-yyyy)	Remarks (if any)
i. 2(f)	The college was established 130 years ago and hence the exact date of recognition by the UGC, is unavailable. However, the college has been reissued 2(f) and 12(B) by the UGC. (F.No. 1-1/2013 (CPP-1/C dtd. 24 th Nov. 2014)	--
ii. 12(B)		

(Certificate from UGC stating 2(f) and 12 (B) recognition of the college is enclosed)

d. Details of recognition/ approval by statutory/ regulatory bodies other than UGC
(AICTE, NCTE, MCI, DCI, PCI, RCI etc.)

- **Not Applicable**

7. Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?

8.

Yes No

If Yes, has the college applied for availing the autonomous status?

Yes No

- Yes, the university Act provides for conferment of autonomy (as recognized by the UGC). The college has applied for “**Autonomous Status**” with the affiliating University, since 2006.

- *First proposal for autonomy was submitted in the year 2006; the revised proposals have been submitted in the year(s) 2008, 2010, 2011 and 2013. University Committee to grant autonomy visited College on 27th and 28th September, 2013.*
- *The Committee studied the Academic Structure, Infrastructure of the college, Quality of Academics, Research, Human Resource Management and Financial status of the college. The committee visited all the departments and interacted with all the stakeholders of the college.*
- *The detailed report by the Committee has been submitted to the University.*

9. Is the college recognized

a. By UGC as a College with Potential for Excellence (CPE)?

Yes

No

If yes, date of recognition

06/09/2011

b. For its performance by any other governmental agency?

Yes

No

10. Location of the campus and area in sq.mts

Location	Urban
Campus area in sq. mts.	2,63,045 sq.mts
Built up area in sq. mts.	40,000 sq.mt

11. Facilities available on the campus:

- Auditorium/ seminar complex with infrastructural facilities **13**
- Sport Facilities
 - * play ground **02**

1	Large Play Grounds for all outdoor games	02
2	Badminton Hall	01
3	Lawn Tennis Courts	07
4	Basket Ball Courts (Synthetic)	02
5	Boxing Hall	01
6	Judo Hall	01
7	Table Tennis Hall	01
8	Volley Ball Court	01

* Swimming Pool

* Gymnasium

- Hostel
 - * Boys Hostel

Sr. No.	Hostel Blocks	Inmates	Facilities
1	Block I	101	Mess club, Television sets, Newspapers, Water Purifiers and Coolers
2	Block –II	106	
3	Block-III	118	
4	Block-IV	116	
	Total	441	

- * Girls Hostel

Sr. No.	Hostel Blocks	Inmates	Facilities
1	Birla Block	59	Solar panels (for hot water), Waste Water recycling Plant, Badminton Hall, Reading Room, News Papers and Magazines, Water Coolers and Purifiers, Library, Gymnasium, Medical Facility, Tea vending machine, Telephone and intercom system, Counseling Centre, Television sets and Mess Club
2	Agarkar Block	151	
3	Bungalow No.IV	20	
	Total	230	

- Residential facilities for teaching and non-teaching staff (give numbers available – cadre wise)

Total Number of Staff Quarters	50
Occupancy (teaching staff)	12
Occupancy (Non teaching staff)	28

- Cafeteria **03**
- Health Centre **01**

First aid, Inpatient, Outpatient, Emergency Care facility, Ambulance.....

- Emergency Care facility available with adjacent Deen Dayal Hospital and Prayag Hospital.

Health Centre Staff-
 Qualified Doctors Full Time ----- Part Time ✓
 Qualified Nurse Full Time ---- Part Time ----

- Facilities like Banking, Post office, book shops

Central Bank of India and State Bank of Mysore branches are located on the campus and are available for students and staff.

- Transport facilities to cater to the needs of students and staff

All sorts of transport facilities are available at the gate.

- Animal House

The Department of Zoology has a separate Animal House, but it was utilized only for storage of preserved specimens.

- Biological waste disposal

Nil.

- Generator or Other facility for management/ regulation of electricity and voltage

1	125KVA- Generator- Ashok Leyland; capacity 100KW
2	125KVA- Generator- Kirloskar Green; capacity 100KW

- Solid waste management facility

Facilities for segregation of dry and wet waste are available.

- Waste Water management

Waste water recycling plant at Ladies Hostel with capacity of 25,000 liters/day.

Recycled water is used to maintain gardens in the campus.

- Water harvesting

Trenches and Bunds are built for rain water harvesting; capacity 60,000 cubic meters.

12. Details of programmes offered by the college (2014-2015)

Sr. No	Programme Level	Name of the Programme/ Course	Duration (Years)	Entry Qualification	Medium of Instruction	Sanctioned/ approved Student Strength	No. of Students admitted	
I	Under Graduate	B.A.	03	H.S.C	English, Marathi	1440	1652	
		B.Sc.	03	H.S.C.	English	2955	2785	
		B.Voc. Media and Communication	03	H.S.C.	English	50	52	
		B.Voc. Digital Art and Animation	03	H.S.C.	English	50	32	
II	Post Graduate	M.A.	02	B.A.	English, Marathi	408	362	
		M.Sc.	02	B.Sc.	English	756	741	
		M.Tech.	03	B.Sc.	English	90	57	
		M.C.A.	03	B.Sc.	English	180	166	
III	Ph.D.	Economics	3+	M.A.	English	16	08	
		Botany	3+	M.Sc.	English	40	09	
		Chemistry	3+	M.Sc.	English	16	02	
		Electronic Science	3+	M.Sc.	English	16	13	
		Environmental Science	3+	M.Sc.	English	40	07	
		Geology	3+	M.Sc.	English	40	01	
		Mathematics	3+	M.Sc.	English	08	00	
		Physics	3+	M.Sc.	English	24	04	
		Zoology	3+	M.Sc.	English	24	00	
	Certificate Courses	Photography	01	H.S.C. or Equivalent	English, Marathi	110	100	
		Counseling Psychology	01	B.A. (Psychology), MSW, M.A.	English	20	20	
		German		H.S.C. or Equivalent		--	54	
		Spanish		H.S.C. or Equivalent		--	11	
		American Studies	80 hrs	H.S.C. or Equivalent		40	29	
	Any Other							
		Vocational	Biotechnology	03	H.S.C.	English	90	61
		EEM*	03	H.S.C.	English	90	85	
		Photography	03	H.S.C.	English	90	60	

*EEM: Electronic Equipment Maintenance

(Additional sanction of seats (10%) is obtained from the University every year while International /NRI Students are admitted as per the directives of the University)

13. Does the college offer self-financed Programmes?

Yes No

If Yes, how many?

18+01 (B.Voc.)

14. New programmes introduced in the college during the last five years

Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Number	02
-----	-------------------------------------	----	--------------------------	--------	-----------

1	Animation	Undergraduate Programme	2012-2013
2	Bachelor of Vocation	Media and Communication and Digital Art and Animation	2014-2015

• List of Departments

Faculty	Departments	UG	PG	Research
Arts	1. Economics	BA	MA	Ph.D.
	2. English	BA	MA	-----
	3. French	BA	-----	-----
	4. German	BA	-----	-----
	5. Hindi	BA	-----	-----
	6. History	BA	-----	-----
	7. Marathi	BA	MA	-----
	8. Philosophy	BA	-----	-----
	9. Political Science	BA	-----	-----
	10. Psychology	BA	MA	-----
	11. Sanskrit	BA	-----	-----
	12. Sociology	BA	-----	-----
Science	1. Animation	B.Sc.	-----	-----
	2. Biotechnology	B.Sc.	M.Sc.	-----
	3. Botany	B.Sc.	M.Sc.	Ph.D.
	4. Chemistry	B.Sc.	M.Sc.	Ph.D.
	5. Computer Science	B.Sc.	M.Sc., MCA	-----
	6. Electronic Science	B.Sc.	M.Sc.	Ph.D.
	7. Environmental Science	B.Sc.	M.Sc.	Ph.D.
	8. Geology	B.Sc.	M.Sc.	Ph.D.
	9. Mathematics	B.Sc.	M.Tech.	Ph.D.
	10. Microbiology	B.Sc.	M.Sc.	-----
	11. Physics	B.Sc.	M.Sc.	Ph.D.
	12. Statistics	B.Sc.	-----	-----
	13. Zoology	B.Sc.	-----	Ph.D.
Centre for Skill Development	1. Media and Communication; Digital Art and Animation	B.Voc.	-----	-----

15. Number of Programmes offered under

a. Annual system

b. Semester system

c. Trisemester system

16. Number of programmes with

a. Choice Based Credit System

b. Inter/ Multidisciplinary Approach

c. Any Other (Specify and provide details)

17. Does the college offer UG and/ or PG programmes in Teacher Education?

Yes

No

18. Does the college offer UG or PG programmes in Physical Education?

Yes

No

19. Number of teaching and non-teaching positions in the Institution.

Positions	Teaching Faculty						Non-teaching Staff		Technical Staff (Lab. Asst.)	
	Professor		Associate Professor		Assistant Professor		*M	*F	*M	*F
	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F
Sanctioned by the UGC /University/ State Government <i>Recruited</i>	Nil	Nil	27 + 4**	15 + 5**	41 + 6**	29 + 19**	89	17	12	03
<i>Yet to recruit</i>	04		-----		27		11		-----	
Sanctioned by the Management / society or other authorized bodies <i>Recruited</i>	Nil	Nil	--	01	35	79	43	16	02 #	03
<i>Yet to recruit</i>	----	----	----	----	-----	----	----	----	---	----

* M- Male

* F- Male

Hardware Maintenance

**Includes Teachers confirmed by the Management

20. Qualification of the teaching Staff

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	*M	*F	*M	*F	*M	*F	
Permanent (Confirmed) Teachers							
D.Sc./ D.Litt.	---	---	---	---	---	---	---
Ph.D.	---	---	21	13	20	17	71
M.Phil.	---	---	04	03	03	08	18
PG	---	---	06	04	24	23	57
Temporary Teachers*							
Ph.D.	---	---	---	01	06	10	17
M.Phil.	---	---	---	---	03	08	11
PG	---	---	---	---	26	61	87

* Includes appointments made by Local Selection Committee, FIP Leave Vacancy and Clock Hour Basis.

21. Number of Visiting faculty/ Guest Faculty engaged with the college 25

22. Furnish the number of the students admitted to the college during the last four academic years.

Categories	2010-2011		2011-2012		2012-13		2013-14	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	325	208	346	219	335	195	323	208
ST	46	31	49	28	68	32	83	32
NTB	35	41	42	36	38	33	46	33
NTC	80	32	84	34	99	45	100	43
NTD	41	15	37	21	50	22	49	20
DTA	23	09	33	15	39	20	50	25
OBC	324	302	365	280	414	272	482	306
SBC	29	26	28	30	31	21	36	19
Open(General)	1200	1633	1167	1628	1205	1667	1241	1679
NON- MH	174	247	217	292	207	331	214	338
International	136	112	106	87	75	90	55	75
NRI	06	11	04	12	03	14	01	15
SAARC	107	44	75	43	99	33	84	32
Total	2526	2711	2553	2725	2663	2775	2764	2825

23. Details on students enrollment in the college during the current academic year

Types of Students	UG	PG	Ph.D.	Total
Students from the same state where the college is located	2234	740	07 (O)	2981
Students from other states of India	442	110	-----	552
SC	450	117	02	569
ST	122	22	-----	144
NTB	78	10	01 (NT)	89
NTC	121	32	-----	153
NTD	72	17	-----	89
DTA	65	16	-----	81
OBC	657	210	01	868
SBC	46	14	-----	60
NRI students	22	00	-----	22
Foreign students	107	21	-----	128
SAARC	102	17	-----	119
Total	4518	1326	11	5855

24. Dropout rate in UG and PG (average of the last two batches)

UG PG

25. Unit Cost of Education

(Unit Cost = total annual recurring expenditure (actual) divided by total number of student enrolled)

a. Including the salary component Rs.

b. Excluding the salary component Rs.

26. Does the college offer any programme/s in distance education mode (DEP)?

Yes No

27. Provide Teacher-Student ratio for each of the programme/course offered:

Sr.No.	Name of the Programme	Teacher: Student Ratio(Average)
1	B.A.	1:23
2	M.A.	1:26
3	B.Sc.	1:19
4	B.Voc.	1:10
5	M.Sc.	1:16
6	M.Tech.	1:13
7	M.C.A.	1:30

28. Is the college applying for

Accreditation: Cycle 1 Cycle 2 Cycle 3
Cycle 4

Re-Assessment:

29. Date of Accreditation* (applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only)

Assessment Cycle	Date(s)	Outcome/ Result
Cycle 1 (First Accreditation)	08/01/2004	“A” Grade
Cycle 2 (Reaccreditation)	28/03/2010	“A” Grade; 3.26 CGPA

* Copies of Accreditation Certificate(s) and Peer Team Report(s) are enclosed.

30. Number of working days during the last academic year.(2013-2014)

241

31. Number of teaching days during the last academic year. (2013-2014)

(Teaching days means days on which lectures were engaged excluding the examination days)

194

32. Date of establishment of Internal Quality Assurance Cell (IQAC)

15/09/2004

33. Details regarding submission of Annual Quality Assurance Report (AQAR) to NAAC.

AQAR (i)	04/08/2011	(2010-2011)
AQAR (ii)	26/09/2012	(2011-2012)
AQAR (iii)	22/07/2013	(2012-2013)
AQAR (iv)	17/09/2014	(2013-2014)

34. Any other relevant data (not covered above) the college would like to include. (do not include explanatory / descriptive information).

(a) Bai Jerbai Wadia Library (Central Library) supported by **National Archives of India**, Ministry of Culture, for digitization of old and rare manuscripts.

(b) The college has well established Counseling Centre, **MAANAS** for Aptitude Testing, Career Guidance and Personal Counselling.

(c) “**Social Outreach and Enabling Centre**” is established for instilling a sense of social responsibility in students and developing network with communities.

(d) A separate “**Astrophysics Laboratory**” with basic facilities.

(e) The college has **09** recognized Research Centres.

□ □

(B) Criterion-wise Self Analysis

CRITERION I : CURRICULAR ASPECTS

1.1 Curriculum Planning and Implementation

1.1.1 State the vision, mission and objectives of the institutions and describe how these are communicated to the students, teachers, staff and other stakeholders.

Vision

We aspire to carry forward the Vision of our founders of providing affordable quality education, while expanding our academic horizons to bring the institution on par with global leaders in the field of higher education.

Mission

Strive for excellence in education in keeping with the motto of the college, “Knowledge is Power” and prepare young minds for imbibing knowledge, skills and sensitivity.

Objectives

- Facilitate value-based holistic learning by integrating traditional and innovative learning practices to match the highest Quality standards.
- Motivate the students to bring out their creative potential and nurture the spirit of critical thinking.
- Equip students with the skills needed to adapt better to the changing global scenario and gain access to multiple career opportunities.
- Provide inclusive education by making it accessible to all sections of society.
- Inculcate a strong sense of nationalism in keeping with the glorious heritage of the institution.
- Sensitize and engage students in issues of gender equality, human rights and ecology in order to make them socially responsible citizens.

Our Vision, Mission and Objectives get communicated to students, teachers and other stakeholders through every programme in the college. The vision, mission and objectives of the college are displayed in all the departments and other prominent locations in the college campus. At the beginning of the academic year, the information about the college and its ideals is also communicated to newly admitted students through orientation programme(s)/ Principal’s address.

1.1.2 How does the institution develop and deploy action plans for effective implementation of the curriculum? Give details of the process and substantiate through specific example(s).

As the college is affiliated to Savitribai Phule Pune University, Pune, the college follows the University-prescribed curriculum. The Academic and Activity calendar is prepared by each department to

ensure effective implementation. Different stages in the process of implementation of the curriculum are as follows:

- (a) Stage I: A meeting is held in each department towards the end of the academic year to do the course-distribution for the next year. Based on the expertise of individual teachers, the syllabus is allotted to them by the Head of the Department. Discussions are held on the methodologies that can be followed to orient new teachers in particular on different approaches to the curriculum.
- (b) Stage II: All departments prepare a pre time-table to check the feasibility of delivering the allotted curriculum by calculating the number of lectures/ practicals available in a particular term.
- (c) Stage III: Teachers are then required to submit a teaching plan based on the number of days required for effective teaching of the syllabus, as also the number of days required for conduct of examinations.

The IQAC prepares a “Teacher’s Diary” and gives it to the teachers at the beginning of the academic year to help them plan and manage this entire process effectively. The teacher’s diary contains circulars from the university regarding the academic term, the academic calendar, working and teaching days available for undergraduate and post graduate programmes and teaching plan.

At the end of every academic term, teachers are required to submit the diary to the IQAC after filling in the relevant information. This helps the IQAC to monitor if the teaching plans have been successfully implemented, and this is further verified and substantiated through student feedback on teachers.

1.1.3 What type of support (procedural and practical) do the teachers receive (from the University and/ or institution) for effectively translating the curriculum and improving teaching practices?

The teachers receive procedural and practical support from the college as well as from the University for effectively implementing the curriculum:

- Workshops are conducted both before and after syllabus revision to apprise teachers about the changes, to get their feedback and further inputs for effective implementation of the syllabus.
- Teachers are given considerable freedom by the college as far as the handling of the syllabus goes. Teachers devise their own methodology based on the needs of the subject and the learners. Traditional modes of teaching/learning are blended with reasonable use of ICT to make the process learner-centric.
- The institution provides them with the necessary infrastructure and resources, such as helping them to procure the latest references on the subject, both in Print and e-book form. Facilities like Inflibnet also offer access to the latest online literature.

- Apart from the resources available at the central library, most of the departments have their own departmental libraries. Every year, a sufficient number of new additions of latest books, reference books, periodicals and journals are made available to teachers.
- Departmental libraries also have a large collection of CDs, DVDs and other audio-visual study materials that aid in supplementing the curriculum by providing glimpses of different real-life situations and recent trends in the subject.
- The college has propagated e-content development in recent years and some subjects have developed their own content. This material is uploaded on the intranet to make it easily accessible to students.

Details of Syllabus revision workshops organized by the college are as follows:

Sr. No.	Subject	Class	Date(s)	Funding Agency
1	Computer Science(UG)	First Year Computer Science - Electronic Science	01/12/2012	BCUD, SPPU, Pune
2	Computer Science(PG)	M.C.A.-III Semester V and VI	27/03/2015	BCUD, SPPU, Pune
3	Animation	S.Y.B.Sc. Animation	26/2/2013	BCUD, SPPU, Pune
3	Electronic Science	M.Sc.-I Electronic Science	26/02/2013	BCUD, SPPU, Pune
4	Physics	M.Sc.-I Physics	05/03/2013	BCUD, SPPU, Pune
5	Geology	B.Sc. 3 rd Year Syllabus	27/11/2014 to 29/11/2014	BCUD, SPPU, Pune
6	Mathematics	T.Y.B.A. and T.Y.B.Sc. Mathematics	07/02/2015	BCUD, SPPU, Pune

1.1.4 Specify the initiatives taken up or contribution made by the institution for effective curriculum delivery and transaction on the Curriculum provided by the affiliating University or other statutory agency.

Many of our teachers actively participate in framing the Curriculum, in their capacity as members of the Board of Studies for different subjects. As stated earlier, others participate in workshops at the developmental stage or in training workshops that are conducted after the designing of the curriculum.

The institution aids in every way to upgrade the infra structure and procure resources for effective delivery of the curriculum. Besides, teachers provide a host of additional resources while taking students beyond the curriculum. Some of them also upload their course material on the college intranet.

There is a mechanism to handle slow and advanced learners in different ways. Bridge courses /Remedial courses are conducted for

the former group. Different time slots are allotted for both the groups. The classes are made up of both face-to-face interaction and projects. Slow learners are encouraged to come and do hands-on work at their own pace to facilitate self learning. Advanced learners have scope to experiment and go beyond the course while working on their projects. Besides face to face interaction in the class encourages students to express themselves freely and students are encouraged to ask questions for a better learning experience.

1.1.5 How does the institution network and interact with beneficiaries such as industry, research bodies and the university in effective operationalisation of the curriculum?

The college/ teachers are constantly looking for opportunities to integrate teaching with real life exposure for enriching and effective operationalisation of the curriculum:

- Extension lectures give students an opportunity to interact with experts from the field of academics and industry.
- Industrial visits are arranged in order to provide live exposure to recent trends in the relevant field. Students also take up minor projects in industries for procuring hands-on training.
- The college coordinates with national laboratories and other private agencies that are similarly equipped to help students avail of their expertise and facilities for hands-on experience.
- International scholars and experts in different subjects too have provided valuable inputs on the current global scenario. This has been particularly useful while designing autonomous programmes.
- The “Social Outreach and Enabling Centre” of the college teams up with several NGOs that provide scope for students to undertake surveys and research projects on issues of social relevance. This has made our curricula experiential and learning more meaningful.

Types/ Nature of departmental linkages/collaborations –
Annexure I(A).

1.1.6 What are the contributions of the institution and/ or its staff members to the development of the curriculum by the University?(number of staff members / departments represented on the Board of Studies, student feedback, teacher feedback, stakeholder feedback provided, specific suggestions etc.)

- Around 50 teachers from the college are members of Boards of Studies/their sub-committees, and have played a leading role in restructuring of undergraduate and post-graduate curricula for various subjects by the SPPU. Recently restructured curricula where our staff members have contributed include Animation, Biotechnology, Botany, Chemistry, Economics, Electronic Science, English, Environmental Science, French, Geology, German, Hindi, Industrial Mathematics, Marathi, Mathematics, Physics, Philosophy, Psychology, Statistics, Sanskrit and Sociology.

- Teachers also work on suggestions for syllabus revision from academic peers obtained through informal interaction and other forums for communication such as email, subject association activities, interaction with visiting faculty and other experts during academic gatherings like workshops, seminars and refresher courses.
- Syllabus based on “Credit system” has been designed for special degree programmes such as Bachelor of Vocation (Media and Communication; Digital Art and Animation) and has been approved by the UGC and University.
- Feedback on the present syllabi has been taken from present students and the inputs have been analysed. Some of the inputs provided by the students have been passed on to the respective Board of Studies and some suggestions are implemented through DBT-STAR College programme for some departments.

1.1.7 Does the institution develop curriculum for any of the courses offered (other than those under the purview of the affiliating university) by it? If ‘yes’, give details on the process (‘Needs Assessment’, design, development, and planning) and the courses for which the curriculum has been developed.

Yes, although we are still affiliated to the University, the college does run a few programmes where the syllabus has been devised by the teachers conducting the course. The examples of such efforts are as follows:

- Certificate Course in Photography
- Certificate Course in Counseling Psychology
- Certificate Course in German
- Certificate Course in Spanish
- Certificate Course in American Studies
- Bachelor of Vocation
(under the National Skills Qualifications Framework)

Sr. No.	Name of the Programme	Need and Assessment
1	Certificate Course in Photography	<ul style="list-style-type: none"> • Course started in 1983 to provide knowledge of basics of camera and photography. Presently, students learn all types of studio work, outdoor work and image processing techniques by using different software. • Open to all those interested in photography. • Evening course with total duration of 400 hours.
2	Certificate Course in Counseling Psychology	<ul style="list-style-type: none"> • Course started in 2005 with the objective of giving hands-on training to students in the micro-skills of counseling. • Course consists of Counseling theory and applications, Psychological Testing, Maladaptive Behavior and Family Dynamics.

		<ul style="list-style-type: none"> • Health Psychology and Developmental Psychology introduced as electives from 2010. • Practicals consist of 5 counseling cases and 10 tests. • Selection of students for the course is through an Interview.
3	Certificate Course in German	<ul style="list-style-type: none"> • Courses started due to high market demand for both languages.
4	Certificate Course in Spanish	<ul style="list-style-type: none"> • Courses designed to attract students, working professionals and others interested in learning foreign languages. • Flexible syllabus tailored to suit the needs and aptitude of students in each batch. • For German, an Advanced level course (based on A-1 level course designed by Max Mueller Bhavan) too is available. • Lectures are conducted in the mornings and afternoons. • Basic course in German and Spanish: 30 hour module • Advanced (A-1) course in German: 90 hour module
5	Certificate in American Studies	<ul style="list-style-type: none"> • Course introduced to cater to the need of a large number of students planning to pursue higher studies in the U.S. • Basic course content developed by a team of American Studies' experts invited by the U.S. Embassy, New Delhi and fine-tuned by a committee set up by the DES. • Aims at giving students insights into American society and culture, literature, history, government and politics, economy and educational system. • Attracts students from various disciplines and others interested in understanding America. • Evening classes • Total course duration: 80 hours • Credit-based continuous evaluation system, including Research project and Seminar presentation
6	Bachelor of Vocation	<ul style="list-style-type: none"> • Course designed and started to cater to the increasing demand for people with technical expertise and other skills in the entertainment sector. • Course focuses on audio production, video production and photography. Experts from the entertainment industry are regular contributors. Students undertake internship programmes (twice) for two semesters and field work. • This is a credit-based semester course. The course structure and curriculum have been approved by SPPU, Pune and sanctioned by the UGC under the National Skills Qualifications Frame Work.

1.1.8 How does institution analyze/ ensure that the stated objectives of curriculum are achieved in the course of implementation?

Specific learning objectives are clearly spelt out along with the syllabus for each subject by the respective Board of Studies. Apart from this, departments also provide a list of objectives they hope to achieve through the teaching-learning process. As of now, the college does not have a clearly-defined mechanism to assess whether these objectives have been achieved. But this is indirectly obtained through:

- Feedback on teaching from students for ensuring that the desired standards are fulfilled.
- Periodic tests (both formal and informal) help teachers to gauge the learning output.

1.2 Academic Flexibility

1.2.1 Specifying the goals and objectives give details of the certificate/ diploma/ skill development courses etc., offered by the institution.

The college focuses on all round development of students. Taking into consideration the changing needs of stakeholders and global competency, the college and our parent organization, DES have taken concrete steps to ensure skill and inter disciplinary approach in the academic programmes. The program focuses on:

- (a) Overall development of students.
 - (b) Skill development over and above regular academic programme.
 - (c) Employability of our students and keep pace with the dynamic job-market.
- Autonomous Programmes conducted under DES
 - (a) Certificate Course in Photography
 - (b) Certificate Course in Counseling Psychology
 - (c) Certificate Course in German (Basic and Advanced Level:
A1 level offered by Goethe-Institute, Pune Max Mueller Bhavan)
 - (d) Certificate Course in Spanish.
 - (e) Certificate Course in American Studies.
 - Special Degree Programme under National Skills Qualification Framework of UGC
 - (a) Bachelor of Vocation (Media and Communication; Digital Art and Animation)
 - Vocational Courses at Undergraduate Level:
 - (a) Photography and Audio-Visual Production with Physics major.
 - (b) Electronic Equipment Maintenance with Electronic Science major.
 - (c) Vocational Biotechnology with Botany/Zoology/Chemistry major.
 - Certificate Programme on “Women and Development” affiliated to Women’s Studies Centre, SPPU, Pune.

1.2.2 Does the institution offer programmes that facilitate twinning / dual degree? If 'yes', give details.

No. The college does not offer programmes that facilitate twinning / dual degree.

1.2.3 Give details on the various institutional provisions with reference to academic flexibility and how it has been helpful to students in term of skills development, academic mobility, progression to higher studies and improved potential for employability. Issues may cover the following and beyond:

Range of core / Elective options offered by the University and those opted by the college; Choice Based Credit System and range of subject options; Courses offered in modular form; Credit Transfer and accumulation facility; Lateral and vertical mobility within and across programmes and courses and Enrichment courses.

- The curriculum is designed by the University with inherent flexibility. The college offers this curriculum to students in a manner that provides varied options to choose from as per their interests, aptitude and scope at First Year as well as at Third Year levels for Science students and at First and Second Year levels for Arts students.
- At UG level the college offers 12 programmes in Arts and 13 programmes in Science. At PG level, 4 programmes are available in Arts and 11 in Science, besides M.C.A. and M.Tech. The college also offers special degree programmes in B.Voc. in Digital Art and Animation and Media and Communication. 03 vocational courses and 05 Certificate courses are also offered by the college.
- There are **10** groups with **17** subjects (English is compulsory) available at F.Y.B.A. A student has to select any **6** subjects in all with one language, besides Compulsory English being mandatory. In addition, **6** of the given subjects are taught in Marathi to cater to regional needs. The same number of subjects is available at S.Y.B.A. also. A student has to select one subject (consisting of 3 papers) at Special level, **2** at general level besides **1** compulsory English course. **12** options are on offer at Special level.
- There are **10** subjects for General Science and **3** for professional programmes. **6** subject combinations are available at F.Y.B.Sc. So there are **12** options for choice of subject. There are **21** subject combinations available at S.Y.B.Sc. and students choose their Special subject at T.Y.B.Sc. level out of **10** available options.
- At the post graduate level too, students have a large number of subjects available (4 for M.A. and 11 for M.Sc). The college offers special programmes of three year duration M.C.A. and M.Tech. (Industrial Mathematics with Computer applications).

- Enrichment Courses (DBT STAR College Programme)
Students from six Undergraduate Science departments derive benefit from the courses conducted under the DBT STAR College Programme, viz. Biotechnology, Microbiology, Chemistry, Electronics, Physics and Zoology.

Students are given lectures, site visits and hands-on Practical training through workshops organized under the programme. Some departments also organized faculty-development programmes under the scheme.

Sr. No.	Department	Course(s) under DBT
1.	Biotechnology	<ul style="list-style-type: none"> • Introduction to PTC methods, Hands on training : Anther Culture, <i>In vitro</i> metabolite production • Protein Separation Techniques • Propagation of Virus in Chick Embryo Model & Enrichment and Isolation of Bacteriophages
2.	Microbiology	<ul style="list-style-type: none"> • Basic Microbiological Techniques • Immunological techniques for antigen-antibody Reactions • Basic molecular Biology techniques • Pharmaceutical techniques
3.	Chemistry	<ul style="list-style-type: none"> • Organic Chemistry • Inorganic and Analytical Chemistry • Physical Chemistry • Biochemistry
4.	Electronics	<ul style="list-style-type: none"> • CAD for PCB and SMD practices • PLC training for Industrial automation • Modelling and simulation for learning Science with MATLAB • Special Sensors • Real world interfacing for Smart Instrumentation • Electronic project Management • Optical Fiber Communication • Advances in Image processing • MEMs • Antenna for Space Studies • Site visit to Thuse Electronics • Site visit to Autocluster, Pimpri • Faculty development programme on Advances in Electronics
5.	Physics	<ul style="list-style-type: none"> • Nanomaterials and nanoscience • Observational Astronomy • Radiation Physics • Scientific Model making
6.	Zoology	<ul style="list-style-type: none"> • Haematological Techniques • Introduction to General Laboratory Procedures • Visit to Central Bee research and training institute • Workshop on Basic Biological Techniques for school teachers • Basic tools in Cell and Molecular Biology

1.2.4 Does the Institution offer self-financed programmes? If ‘yes’, list them and indicate how they differ from other programmes, with reference to admission, curriculum, fee structure, teacher qualification, salary etc.

- Yes. The college offers self - financed programmes. They are as follows:

Programme level	Degree	Subject
Undergraduate	B.Sc.	Animation, Biotechnology, Computer Science, Environmental Science and Microbiology
	B.Voc.	Digital Art and Animation, Media and Communication
	B.A.	Psychology (additional division)
Post Graduate	M.Sc.	Analytical Chemistry, Biochemistry, Biotechnology, Botany, Computer Science, Electronic Science, Environmental Science, Geology, Microbiology, Organic Chemistry, Physics
Post Graduate	M.A.	Psychology
Special Post Graduate	MCA	Computer Science
	M.Tech.	Industrial Mathematics with Computer Applications,
Vocational Undergraduate		Biotechnology, Electronic Equipment Maintenance and Photography and Audio Visual Production

- Curriculum: These programmes are specially designed keeping in mind the needs of society and industry. The curriculum is well-charted and designed to meet the requirements of the competitive scenario. ICT is an integral part of the curriculum for all these subjects.
- Admission Procedure:
Admission criteria are the same as for grant-in-aid courses. Selection is through Entrance tests for some of the subjects. All the rules regarding admission prescribed by UGC/State government norms are followed.
- Fee structure:
For all self-financed courses, the fee structure is designed by the SPPU and approved by the Government of Maharashtra.
- Teachers’ Qualifications and Salary:
Teachers are appointed on regular/contractual basis as per UGC/ State Government norms.

1.2.5 Does the college provide additional skill oriented programmes, relevant to regional and global employment markets? If ‘yes’, provide details of such programme and the beneficiaries.

All the courses mentioned in **1.2.1 above** have been designed keeping in mind the regional and global employment markets. Besides, skill-development courses have been prescribed by SPPU as part of the credit-based Post-graduate courses. This is the list of courses conducted by different departments of the college:

Sr. No.	Subject	Name of Skill-Development course	No. of Credits
1.	M.A.- English	Communication Skills	4
2.	M.A.- Economics	Event Management	4
3.	M.A.- Marathi	Translation Skills	4
4.	M.A.- Psychology	Yoga Therapy	4
5.	M.Sc.- Biotechnology	Chromatographic Separation by HPLC	4
6.	M.Sc.- Chemistry (Organic/Analytic/Biochemistry)	Chromatographic Separation by HPLC	4
7.	M.Sc.- Botany	Introduction to Applications of Plant Biotechnology	4
8.	M Sc.- Computer Science/ MCA	Scilab LaTeX Communication Skills	4
9.	M.Sc.- Electronics	LaTeX Scilab Soft skills	1 1 2
10.	M.Sc.- Environmental Science	Renewable Energy	4
11.	M.Sc.- Geology	Application Methods in Geosciences	4
12.	M.Tech.- Industrial Maths with Computer Applications	LaTeX Scilab	2 2
13.	M.Sc.- Physics	Communication and Writing Skills LaTeX Scilab	2 1 1

1.2.6 Does the University provide for flexibility of combining the conventional face to face and Distance Mode of Education for students to choose courses/ combination of their choice? ‘If ‘yes’, how does the institution take advantage of such provision for the benefit of students?

- No. the University does not provide for flexibility of combining the conventional face to face and distance mode of education for students.

1.3 Curriculum Enrichment

1.3.1 Describe the efforts made by the institution to supplement the University’s Curriculum to ensure that the academic programmes and Institution’s goals and objectives are integrated.

The college makes consistent efforts to supplement the University curriculum by organizing activities, which focus on integrating academic and general development of students. They are as follows:

- Guest lectures, extension lectures, face to face interactions between industry experts and students and panel discussions.
- Field work and field surveys in the form of short term projects.
- Preparation of theme-based posters by students.
- Motivating students to participate in various intra and intercollegiate competitions.

- Keeping the laboratories always open for students through the activity “Learning by Doing in Lab” (LBDL).
- Use of language laboratory to improve basic linguistic skills of students.
- Assigning short term research projects to students under the guidance of teachers- Special Teacher and Researcher Programme (STAR).
- Special “Hands on Training programmes” for students through DBT STAR College Programme, for Science students.
- Workshops, seminars, poster exhibitions, role playing and street plays have been an integral part of the learning process.
- Observation Internship programme and Case studies for Psychology students.
- Department wise Subject associations and clubs, which provide a platform for students to interact and showcase their academic abilities and other talents.
- Some of the recently conducted programmes are as follows:

Animation	<ul style="list-style-type: none"> • Script Writing • Landscape Painting • Stop motion (Clay Animation) • Pre-Production
Computer Science	<ul style="list-style-type: none"> • English Proficiency • Personality Development
Chemistry	<ul style="list-style-type: none"> • Youth empowerment skills and communication skills
Economics	<ul style="list-style-type: none"> • In-depth analysis of various issues in management • Writing with style
English	<ul style="list-style-type: none"> • English Proficiency Development course
Psychology	<ul style="list-style-type: none"> • Behavioral skills for self development. • Workshop on applications of SPSS & RM

1.3.2 What are the efforts made by the institution to enrich and organize the curriculum to enhance the experience of the students so as to cope with the need of the dynamic employment market?

The college has established an Industry-Institute Interaction Cell that caters to the needs of the industry and facilitates student interaction and participation through different programmes. The students also participate in Panel discussions where industry experts share their knowledge and entrepreneurial skills with them.

This has helped the student community in gaining knowledge of current needs and expectations in national and global markets. This has increased their potential for employability in various industries. The Cell also facilitates placement activities of various departments. Computer Science and Life Science students have specially benefited from these activities.

1.3.3 Enumerate the efforts made by the institution to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT etc., into the curriculum.

The college has an extremely proactive student forum that helps in creating awareness regarding social issues such as gender, environmental awareness and human rights through the following activities:

- Observing/celebrating important days like Louis Braille Day, World Disability Day, Hiroshima Nagasaki Day, International Women's Day, Human Rights Week, International Peace Day, Gandhi Jayanti etc.
- Film screenings with discussions
- Awareness campaigns
- Social Surveys
- Addressing gender issues through workshops, Poster exhibitions and Street plays
- Street plays on issues of social relevance
- Extension lectures, seminars and workshops for all students; specific activities for differently abled students
- Student-research projects with various NGOs
- Eco-friendly college/departmental fests
- Developing Zero-Waste Campus Model
- Train student volunteers to ensure eco-friendly Ganesh Visarjan (immersion of idols) in the city during Ganesh Festival
- E-waste awareness campaign and collection drive
- Say 'No' to plastic campaign

Besides all this, many students (both boys and girls) opt for the Certificate course in Women and Development (conducted on campus by Women's Studies' Centre, Savitribai Phule Pune University, Pune). All students have to study and pass a compulsory paper in Environmental awareness at the SYBA/SYBSc levels as part of the University curriculum. All our first year PG students (Arts and Science) have to study compulsory papers in Human rights and Cyber-security under the new University curriculum introduced since June 2013.

1.3.4 What are the various value-added courses/ enrichment programmes offered to ensure holistic development of students? Moral and ethical values; Employable and life skills; better career options and Community orientation

The college has played a significant role in developing curricula for various subjects. Teachers from the college played a key role in the recent restructuring of the Curricula for various subjects at undergraduate and postgraduate levels, and vocational courses in

Electronic Equipment Maintenance and Photography & Audio Visual Production.

Latest developments in respective fields, changing needs of the society, the market requirements and the employment generating potential of the courses are considered while designing and developing the curricula. The society expects the curriculum to provide job-oriented and vocational courses. It also expects that the courses address the issues of social and environmental concerns and inculcate values such as democracy, pluralism and respect for other cultures. While implementing the University curriculum, the college has adopted several practices consistent with its mission and objectives.

SPPU has introduced many vocational courses. Responding to the changing needs of the society and the market demands, several new courses are offered by the college to enhance the employability of students. Courses like Biotechnology, Computer Science, Environmental Science and Microbiology, Vocational Courses like Biotechnology, Electronic Equipment Maintenance and Photography and Audio Visual Production are offered.

The college has autonomous Certificate courses in Counseling Psychology, international languages, Photography and American Studies, owing to their value in the job market.

Although the college has no independent programmes focusing on moral and ethical values, these form an integral part of classroom discussions and other student forums for interaction in the college. Social sciences have included in their syllabus issues such as regionalism, casteism, terrorism, communalism, development and related problems such as environmental degradation and displacement of the locals. This helps students to develop an understanding towards these issues and to think over sustainable solutions to these problems. These students can find work in the social sector or become social entrepreneurs themselves. Street plays, exhibitions, film screenings and workshops are organized to make students and teachers aware of these issues.

Concern for the degrading environment is also reflected in our curricular practices. Environmental ethics has been included as part of the Environmental Science course in order to sensitize students towards social issues. Our strength lies in going beyond the prescribed curriculum. Students work on mapping the ecological footprints of the college through energy audit, water audit and waste management on the campus.

The college has laid strong emphasis on gender and caste equality. For the last eight years, the college in coordination with Women's Studies Centre, SPPU, has been conducting a certificate course on 'Women and Development'. Workshops and seminars are organized on these

issues. Visits to NGOs provide hands-on-experience. Film screenings are arranged to analyse and discuss women's issues, newspaper articles and books pertaining to women (particularly autobiographies) are analysed. Debates too are conducted to supplement the teaching on gender and caste related issues.

The college has also established "Equal Opportunity Centre". The centre is established as per the guidelines of the UGC. The main objective of the centre is to make the students aware about equality, social justice and human rights. This awareness is created by screening various films and documentaries related to social justice and equality.

1.3.5 Citing a few examples enumerate on the extent of use of the feedback from stakeholders in enriching the curriculum.

The teachers take feedback in informal ways from students on a regular basis regarding the curriculum. Discussions with subject experts and industry personnel during meetings, seminars and conferences also provide valuable inputs in enriching the curriculum. Some of the examples are as follows:

- For Sociology curriculum, feedback is taken from students informally (through discussions in the class) in order to make it more relevant to contemporary Indian society. For instance, policy changes with regard to issues such as Sexual Harassment, Prevention of sexual abuse of children, Right to Education, Human disability, children, caste and tribals were discussed and debated over in class. The suggestions were then submitted to the Board of studies and implemented in the curriculum.
- For the under graduate (F.Y.B.A.) syllabus for Psychology, suggestions were given to include Forensic Psychology, Criminal Psychology and Sports Psychology, keeping in mind the emerging trends in Psychology. These were duly considered and incorporated into the curriculum. Similarly, after discussions with students, a sub topic on "Career Avenues in Psychology" was added to the curriculum. For the post graduate syllabus in Industrial Psychology, teachers from our college and Sir Parshurambhau College, Pune jointly had a series of discussions for framing the curriculum. The syllabus was accepted in toto by the Board of Studies of SPPU, Pune and was used as a model for preparing the syllabus for other elective papers.
- For the Under graduate Biochemistry curriculum, the draft was discussed with Third year B.Sc. Chemistry students. The suggestions like inclusion of Lac Operon and Signal Transduction, Allosteric Enzymes etc. have been accepted and will be incorporated in the revised T.Y.B.Sc. Biochemistry syllabus from the academic year 2015-2016.
- For the F.Y.B.Sc. curriculum in Zoology that was implemented in the academic year 2013-2014, suggestions with regard to Paper ZY101 and ZY103 were given. Accordingly the topics suggested have been included in the SPPU curriculum.

- For the T.Y.B.Sc. curriculum for Botany to be implemented from the academic year 2015-2016, suggestions regarding Genetics and Evolution and Computational Biology were taken. Accordingly, the curriculum would now include Biostatistics as per the suggestions given by subject experts.

1.3.6 How does the institution monitor and evaluate the quality of its enrichment programmes?

Though there is no formal mechanism for monitoring and evaluating the quality of enrichment programmes, the teachers obtain feedback from the participants, both in formal and informal ways towards the end of each programme. This helps in future planning to get the best out of such programmes.

1.3 Feedback System

1.4.1 What are the contributions of the institutions in the design and development of the curriculum prepared by the University?

The teachers of the college have always participated in preparation of the curricula of affiliating university(s) (earlier Bombay University till 1949 and presently SPPU, Pune).

- The college has played a significant role in developing curricula for various subjects of different universities, deemed universities and autonomous colleges.
- They have also contributed as Members of the Board of Secondary and Higher Secondary Education, Pune. Maharashtra State Bureau of Textbook Production and Curriculum Research, Pune. Most of the teachers are Members of Board of Studies/ Sub Committee members/ expert members where they give their valuable inputs to restructuring of the curricula.
- Apart from this, the teachers also participate in ‘Syllabus-revision’ workshops organized by various colleges/ institutes. Teachers have also worked as Resource persons in workshops organized for syllabus restructuring.
- The teachers have been proactive in organizing “Syllabus revision” workshops in subjects like Computer Science, Electronic Science, Physics and Geology.

List of teachers involved in Curriculum related activities given in **Annexure I (B)**

1.4.2 Is there a formal mechanism to obtain feedback from students and stakeholders on Curriculum? If ‘yes’, how is it communicated to the University and made use of internally for curriculum enrichment and introducing changes/new programmes?

The curriculum design and restructuring is essentially the responsibility of the University. The college, however, provides valuable inputs to the process by way of seeking feedback in many ways such as:

- Informal discussions with students, alumni and parents.
- Suggestions from peers, employers / industry and community.
- This feedback is passed on to the concerned Board of Studies at the workshops on curriculum revision.
- Formal feedback on the curriculum was taken from students before submitting the proposal for “academic autonomy”. This feedback has been analysed and will be used in future for designing and developing the curriculum once the college becomes autonomous.

1.4.3 How many new programmes / courses were introduced by the institution during the last four years? What was the rationale for introducing new course/ programmes?)

The list of new programmes added during the last four years is as follows:

- B.Sc. Animation (affiliated to SPPU, Pune)
Demand from students for a Degree programme in Animation as only diploma programmes in Animation were available in Pune along with degree programmes run by some private institutions. DES had already started a degree programme in Animation in collaboration with iNURTURE Education Solutions Pvt. Ltd. in 2008. Therefore, when SPPU took the initiative to start B.Sc. Animation programme in affiliated colleges in 2012, the college applied for it and started the programme.
- B.Voc. Media and Communication and Digital Art and Animation (Under National Skill Qualification Framework, UGC)
Programme was started taking into consideration the growing demand for trained human resources in the Entertainment Industry.
- Certificate Course in American Studies (Autonomous)
Course introduced to cater to the need of a large number of students planning to pursue higher studies in the U.S.



CRITERION II : TEACHING-LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

2.1.1 How does the college ensure publicity and transparency in the admission process?

As Fergusson College is one of the oldest and reputed institutions of higher learning in the city and the country, it attracts students from all over the state, from outside the State as well as from overseas, and does not require any special *publicity* as such. However, the complete admission process along with the schedule of form submission, display of merit lists, seat allocations, fee structure and admission policy is displayed on the college website as well as on the notice-boards in the main building and at prominent locations on the campus and updated from time to time.

Information regarding admission criteria, programmes offered, endowments, scholarships/free-ships, hostel accommodation and other student support facilities are provided in the college prospectus. Information regarding entrance examination for PG courses is published in prominent national dailies in English and Marathi.

The college follows **Online Admission process** which is widely publicized and is transparent. The **online process** brings better control over the process. Application forms reach out to a wider section of the society. Applicant can apply anytime and from anywhere. The direct benefits of the online system are *transparency* in the whole process, 24 X 7 availability, no geographical boundaries, no long queues, reduction in paper work, reduction of human involvement; accurate, reliable and user friendly process.

2.1.2 Explain in detail the criteria adopted and process of admission (Ex. (i) merit (ii) common admission test conducted by state agencies and national agencies (iii) combination of merit and entrance test or merit, entrance test and interview (iv) any other) to various programmes of the Institution.

The admission committee constituted for each UG/PG class is entrusted with the responsibility of monitoring the complete admission process. The **criteria** adopted for the process of admission to all programmes are based on *principles of merit and reservation* as per rules and regulations of State government and University received from time to time.

The complete admission process along with the schedule of form submission, display of merit lists, seat allocations, fee structure and admission policy is displayed on the college website as well as on the notice-boards in the main building and at prominent locations.

Students visit the admission sections of the website of the college. The online admission system allows the student to fill the application through the web and submit it. The eligibility criteria, number of seats, and selection criteria are mentioned on the website. Merit lists of eligible students are generated through the admission module of the software and published on the website as well as on the notice boards of the college. College is in the process of receiving the application fees online through the integrated payment gateway.

Admission process for UG and PG classes starts immediately after the declaration of XII results of Maharashtra Board and B.A./B.Sc. results of SPPU, Pune respectively. Admissions for all undergraduate programmes and most postgraduate programmes are based on merit.

Entrance examinations are conducted for three post graduate classes in Arts (English, Economics and Psychology) and three in Science (Biotechnology, Computer Science and M.Tech. Programmes). Information regarding entrance examination for PG courses is published in prominent national dailies in English and Marathi. Merit list is categorized into SPPU, Pune and non SPPU students. In case of SPPU students, merit list is prepared by considering 50% of entrance marks and 50% marks of that particular subject at the UG level. For non SPPU students, merit is based entirely on the score of the entrance examination.

For admission to post graduate programmes in M.Tech. and M.C.A., only entrance marks are considered while preparing the merit list. For admission to M.Sc. Biotechnology and Computer Science, 50% weightage is given for percentage scored at UG level and 50% weightage for their performance in the entrance examination.

For admission to research centres i.e. for Ph.D. degree, all deserving candidates must appear for the PET examination conducted by the University unless exempted. A list of shortlisted candidates is sent by the affiliating university to the college for the admission. Interviews are conducted by the university appointed panel of experts. Candidates selected by this panel are provisionally admitted. Pre-admission viva is conducted before submission of synopsis and then finally the university gives approval to the student as well as for the research topic.

2.1.3. Give the minimum and maximum percentage of marks for admission at entry level for each of the programmes offered by the college and provide a comparison with other colleges of the affiliating university within the city/district.

Sr. No.	Programme	Minimum %	Maximum %
1.	F.Y.B.Sc. (Grantable)	72.20	96.80
2.	F.Y.B.A. (Grantable)	87.54	89.23
3.	F.Y.B.A. (Self financing)	84.17	96.40
4.	F.Y.B.Sc. (Biotechnology)	88.40	95.00
5.	F.Y.B.Sc. (Environmental Science)	83.23	95.00
6.	F.Y.B.Sc. (Microbiology)	85.69	95.00
7.	F.Y.B.Sc. (Computer Science)	79.38	93.80
8.	F.Y.B.Sc. (Animation)	60.31	79.60
9.	B.Voc. (Media and Communication)	78.15	91.69
10.	B.Voc. (Digital Art and Animation)	56.92	86.40
11.	M.A. (Psychology)	74.50	81.16
12.	M.A. (English)	56.75	75.16
13.	M.A. (Marathi)	51.00	79.00
14.	M.A. (Economics)	64.37	75.62
15.	M.Sc. (Biotechnology)	66.75	77.25
16.	M.Sc. (Botany)	68.41	93.22
17.	M.Sc. (Analytical Chemistry)	77.00	83.58
18.	M.Sc. (Biochemistry)	73.67	84.08
19.	M.Sc. (Computer Science)	55.58	81.33
20.	M.Sc. (Organic Chemistry)	60.17	89.42
21.	M.Sc. (Electronic Science)	65.25	94.58
22.	M.Sc. (Environmental Science)	68.33	76.58
23.	M.Sc. (Geology)	60.33	86.92
24.	M.Sc. (Microbiology)	76.33	80.75
25.	M.Sc. (Physics, Grantable)	87.00	95.17
26.	M.Sc. (Physics, Self financing)	82.50	89.58
27.	M.C.A.	52.22	87.78
28.	M.Tech . (Industrial Mathematics)	69.52	93.33

(Note: Cut off percentages given for students admitted through General category)

2.1.4 Is there a mechanism in the institution to review the admission process and student profiles annually? If ‘yes’, what is the outcome of such an effort and how has it contributed to the improvement of the process?

Yes, there is a mechanism to review the admission process and student profiles annually. The college has an “Admission Committee” consisting of the Principal, Vice-Principal, Registrar and a team of faculty members for each programme to assist in the admission process. This committee monitors the whole admission process in the college.

Mechanism: After the completion of the admission process, the college Admission Committee and administrative office submit the student profile for all programmes to the IQAC office. The IQAC and Admission Committee analyze the students’ profiles to see if they are in compliance with the state government and university regulations.

Outcome: The outcome of the process results in a fair and transparent admission process. Suggestions for improvement in the current admission process are considered for the future admission process. As a result of this mechanism, the admission process has been streamlined and provides an insight into the demographic data of the students.

2.1.5 Reflecting on the strategies adopted to increase/improve access for following categories of students, enumerate on how the admission policy of the institution and its student profiles demonstrate/reflect the national commitment to diversity and inclusion of SC/ST, OBC, Women, Differently abled, Economically weaker sections, Minority community and any Other.

The college is committed to the National policy of diversity and inclusion of students from all strata of society. The reservation policy prescribed by the Government of Maharashtra with respect to marginalized students and women is followed. This is reflected in the student profile presented as follows:

Category	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015
SC	533	556	530	531	567
ST	77	77	100	115	144
Women	2715	2728	2775	2825	2963
NTB	76	78	71	79	88
NTC	112	118	144	143	153
NTD	56	58	72	69	89
DTA	32	48	59	75	84
OBC	626	645	686	788	867
SBC	55	58	52	55	60
Differently abled	---	30	35	41	90
Any Other (International, NRI and SAARC)	416	327	314	262	269

The college has a significant number of visually challenged students. After assessing the needs for these differently-abled students, the college established Social Outreach and Enabling Centre (SOEC), to cater to the needs of visually challenged students. The SOEC provides them with writers/ scribes for examinations. Seminars/ workshops for these students are a regular feature and a separate section has been earmarked in the library for them consisting of 5 computers with JAWS-13 software, recorders, players and head phones. They can use the facility to listen to audio tracks of study material and also practise on their own.

2.1.6 Provide the following details for various programmes offered by the institution during the last four years and comment on the trends. i.e. reasons for increase / decrease and action initiated for improvement.

Programme	Details	2010-11	2011-12	2012-13	2013-14	2014-15	Comments
B.A.							Yearly increase in the Demand Ratio.
	No. of applications	2156	2200	3539	4816	4746	
	No. of students admitted	566	546	591	576	594	
	Demand - Ratio	1:3	1:4	1:6	1:8	1:8	
M.A.							Demand-Ratio is constant.
	No. of applications	725	695	672	600	624	
	No. of students admitted	194	226	216	206	200	
	Demand - Ratio	1:4	1:3	1:3	1:3	1:3	
B.Sc.							Steady increase in the Demand Ratio.
	No. of applications	6118	8144	6875	10227	11853	
	No. of students admitted	1029	947	957	1018	1072	
	Demand - Ratio	1:6	1:8	1:7	1:10	1:11	
M.Sc.							Yearly increase in the Demand Ratio.
	No. of applications	5015	5525	5513	6225	5675	
	No. of students admitted	417	372	369	405	368	
	Demand - Ratio	1:12	1:14	1:14	1:15	1:15	
M.Tech. and M.C.A.							Demand Ratio is high, but shows yearly decrease.
	No. of applications	1681	1795	1291	659	629	
	No. of students admitted	90	95	79	85	64	
	Demand - Ratio	1:18	1:18	1:16	1:11	1:10	

2.2 Catering to Student Diversity

2.2.1 How does the institution cater to the needs of differently-abled students and ensure adherence to government policies in this regard?

The college has an enabling centre called “SAATHI” that looks into the needs of the students with disabilities. The centre promotes the formation of study circles, encourages peer mentoring, provides writers/ scribes for the examinations (*as per the directives of Ministry of Human Resource Development, Department of Higher Education, F. No. 21-11/2013-TS I*) and strengthens inclusive practices to integrate students with disabilities in the college mainstream. Annual celebration of Louis Braille Day (January 4th), special workshops, get-togethers, participation in various rallies and visits to centres established for these students (XRCVC, Mumbai) are amongst the other activities of the centre. Portable audio recorders are made available to visually challenged students.

2.2.2 Does the institution assess the students' needs in terms of knowledge and skills before the commencement of the programme? If 'yes', give details on the process.

Yes, in order to assess the students' needs in terms of knowledge and skills, the college has adopted the following process.

- (a) Determine the students' needs during the *admission process*: This is handled by the members of the admission committee through one-to-one counselling to help students in selecting appropriate subject combinations.
- (b) In the first (entry) year, during the initial two weeks of commencement of the academic year, teachers are instructed to take special efforts to take an overview of the background of the subjects the students have learnt in Std.XII. Revising the basics of these subjects helps in bridging the knowledge gap and brings weaker students on par with others.
- (c) During these interactions in the classroom or during laboratory sessions, teachers identify the nature of support required.
- (d) Update the teaching-plan so as to cater to the needs of the students.

2.2.3 What are the strategies adopted by the institution to bridge the knowledge gap of the enrolled students (Bridge /Remedial/ Add-on/Enrichment Courses, etc.) to enable them to cope with the programme of their choice?

Teachers dedicate initial sessions towards further assessing and bridging the knowledge/ skill gap of enrolled students. Interactions between teachers and students during lectures/practicals help in revealing the knowledge level of the students. The academic performance in previous academic year helps in identifying the slow/weak and advanced learners.

The strategies adopted by the college are as follows:

- (a) Remedial coaching is given to slow learners, academically weak students or those who are continuing their education after a gap.
- (b) When there are more than 20 students in a class requiring remedial teaching, this training is given formally. Financial assistance received from UGC under XI plan has been utilised to conduct such coaching.
- (c) Bridge/Add-on courses are conducted for the students to come on par with other students specifically for French and German languages.
- (d) Students with inadequate language skills are asked to join communication skill programmes.
- (e) Advanced learners are given an opportunity to join the Add-on/skill enrichment programmes.
- (f) Students' progress is monitored through the mentoring system.
- (g) Special attention is given to needy and deserving students by the individual teachers.

2.2.4 How does the college sensitize its staff and students on issues such as gender, inclusion, environment etc.?

The college sensitizes its staff and students on issues such as gender, inclusion, environment etc., through the following activities.

- A 'Forum for Gender Equality' is an active students' forum, which conducts several activities such as weekly discussions, film screenings, awareness campaigns, conducting surveys, poster exhibitions and street plays to spread the message of gender equality.
- Initiatives like 'Green Steps' and 'Rangers Eco Club' conduct several programmes to sensitize the students to the issues of environment and sustainability like conducting environmental audit of college campus, developing a zero waste campus model, eco friendly fests, e-waste awareness and collection drive, organization of workshops, seminars and guest lectures on environmental issues, street plays, observing/celebrating various designated days, environment centre visits, film screenings etc.
- Display Boards regarding "Zero tolerance towards sexual harassment" and guidelines on making the college campus eco-friendly are exhibited at prominent locations on the college campus.
- Differently abled students are provided with special facilities, and at the same time encouraged to be a part of main stream activities.
- The NSS unit of the college also organizes programmes on gender equality, anti-ragging measures, save the girl child campaign, environment awareness, tree plantation etc.

2.2.5 How does the institution identify and respond to special educational/learning needs of advanced learners?

The advanced learners are identified from the merit list of the students admitted to each programme and through the interaction of faculty members with students during lectures and practicals. Various methods of evaluation are also used for the purpose: viz. question-answer sessions, problem solving sessions, home assignments, group discussions and seminars.

Advanced learners have higher expectations from the college. The college aptly identifies and responds to the special learning needs of advanced learners through the following means:

- Recommending reference books and journals as per their needs from departmental libraries.
- Access to various web resources provided by INFLIBNET and similar sources.
- Allowing them to spend more time in laboratories and making additional infrastructure available.

- Helping them to explore independently by conducting new experiments using research instruments.
- Helping them to build problem-solving abilities by providing hypothetical situations and real life cases.
- Arranging expert/guidance lectures to harness their potential.
- Encouraging them to select research oriented topics for their projects where they get an opportunity to work and interact with scientists at national research and development institutes, in industries and IT companies.
- Guiding deserving students to carry out research through short term projects under UGC-CPE and UGC-BSR schemes wherein they learn to write project reports and also publish and present their research.
- Encourage them to apply for summer / winter internships or on-the-job training.
- Help them to get live projects in industries, Research and Development institutes and in private enterprises, hospitals etc.
- Providing opportunities to represent the college in various events and activities at the university/ state/ national levels.

2.2.6 How does the institute collect, analyze and use the data and information on the academic performance (through the programme duration) of the students at risk of drop out (students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc. who may discontinue their studies if some sort of support is not provided)?

The academic performance of the students is evaluated by the respective faculty members and the class in-charges. The heads of the various departments collect regular feedback from the faculty on the enrolment, attendance, punctuality and reasons for absenteeism for regular classes as well as for internal examinations to identify the students at a risk of drop-out. Faculty members works as counsellors as well as mentors.

After analysing the data, information about students who are at a risk of drop out is given to their respective parents/guardians from time-to-time. Remedial coaching is provided to the students. In addition, some needy and deserving students are given financial aid or selected for “Earn and Learn” scheme. They are given different types of work on the campus and paid for it to enable them to continue with their education.

2.3. Teaching-Learning Process

2.3.1 How does the college plan and organize the teaching, learning and evaluation schedules?

(Academic calendar, teaching plan, evaluation blue print, etc.)

The college has put in place a system to effectively plan the teaching-

learning and evaluation processes. The focus of all the activities is the 'learner'. Various strategies and mechanisms for student centric learning are adopted by the teachers to cater to the diverse needs of students in the classroom.

Academic Calendar

Preparation of the academic calendar for the next academic year begins in April i.e. before the end of every academic year. Every department submits a detailed Academic and Activity calendar of the department to the IQAC. A comprehensive academic calendar is prepared by a committee of heads of various departments, Vice-Principals and the Principal with the help of IQAC. The academic calendar has details of distribution of teaching days and examination days in each term. This academic calendar is communicated in advance to all the departments. It is also made available to students through the college website.

Teaching Plan

A central class-wise timetable is prepared for the next academic year by the time table committee towards the end of every academic year (i.e. in April) and distributed in advance to all the departments. The departmental time table for theory classes and practical sessions is finalized by the head of the respective department and is made available to the faculty members at the beginning of the term. Preparation of central timetable for practical sessions is handled by class in-charges. The size and schedule for department-wise batches of batches is fixed through departmental meetings.

The Teaching plan is prepared by individual teachers, verified by the Head of the department and then implemented. The teaching plan includes the following aspects:

- (a) Aims and learning outcomes or objectives.
- (b) Structure of session and schedule of the activities.
- (c) Best teaching and learning methods to achieve learning outcomes.
- (d) List of contents and key topics.
- (e) Learning resources to be given to the students.
- (f) Assessment or evaluation method.

Teachers' Diary

Every teacher is given a diary before the commencement of the academic year. The contents of the diary are: Academic calendar, commencement and end dates of the term/semester, list of holidays, personal timetable, teaching plan, academic audit format, formats to indicate co-curricular and extra-curricular activities and record of leave.

The diary maintained by the teacher ensures compliance of the academic plans. These diaries are periodically assessed by the head of the department and the Vice Principal. The teaching plan prepared and

implemented is verified by the head of the department and the Vice Principal to ensure that the work assigned is completed on time every term.

Evaluation Blue Print

Evaluation of students' knowledge through classroom /laboratory learning is a major component of evaluation. The schedule for all college internal examinations is prepared well in advance and displayed on notice boards as well as on the college website.

The college follows a structured evaluation pattern for UG courses. For Arts students, the internal examination is conducted at the end of the first term and for Science students, it is conducted per semester for every subject. The pattern of the question paper is intimated to the teachers and students via notice boards and the college website. The schedule is strictly followed. The semester end evaluation is done through the SPPU Central Assessment Programme.

For Arts, Internal examination is conducted at the end of the first term: 20% weightage for Internal exams and 80% for External examinations

The Pattern of Internal Examinations for Arts stream is as follows:

- Total marks: 60 (converted to 20)
- Question papers for Social Science subjects consist of 4 short and long answer-type questions of 15, 20, 15 and 10 marks respectively.
- Papers for Compulsory English consist of five questions in all of 12 marks each. Three questions are based on the prescribed text and the fourth consists of Objective-type questions on Grammar and the final question is on practical aspects of Oral/Written communication. The Optional English paper is made up of 5 long and short answer type questions consisting of 12 marks each.
- For German and French, 50 marks are for the theoretical component and 10 marks are reserved for Dictation exercises. The theory component covers comprehension questions, grammar, translation and communication skills.
- For Hindi, Marathi and Sanskrit, the question paper is made up of 4 questions related to text-based as well as grammar, comprehension and translation skills with minor variations in the marking system for each question.

The pattern of internal examination for UG Science stream is:

- Objective type questions (10 compulsory questions of 1 mark each) – 5 Multiple choice questions (MCQs) and 5 True or False type questions for 10 marks.
- Subjective questions like basic definitions, tricky questions with two line answers testing fundamentals of the subject, computational problems involving minimum computations, labelling of diagrams etc.

(each question for 2 marks and attempt any 5 out of 7 questions) for 10 marks.

- The External examination is for 90 marks.
Internal Examination: 10 marks

At post graduate level a Credit and semester system is followed. Assessment consists of Continuous Assessment (CA) and End Semester Examination (ESE). Each assessment has a weightage of 50%. The teacher can select a variety of mechanisms for evaluation such as: written test, term paper, journal notes, seminar presentation, quiz, assignments, extension work, open book test or mini research project.

The time-table for Continuous Assessment for PG students is prepared for the entire semester and is intimated to them well in advance. The Semester-end Examination for PG students is conducted by SPPU, Pune and evaluation is done through the SPPU Central Assessment Programme.

Schedule for examination, central assessment programme, moderation work, preparation of mark lists, announcement of results, and revaluation of papers is decided by the examination committee for all First Year UG examinations and communicated to the respective stakeholders.

2.3.2 How does IQAC contribute to improving the teaching-learning process?

IQAC forms an integral part of academics and administration of the college. It has played an important role in streamlining the systems and processes as well as enhancing academic and other activities of the college. It is a connecting link between the teachers and the administration while working as a “facilitator” to enhance the quality of all college activities. The contribution of IQAC could be listed as follows:

- Organizing workshops to enhance use of ICT facilities to improve teaching-learning.
- Encouraging teachers to use different pedagogies for teaching.
- Ensuring availability of modern tools and techniques for all laboratories with reference to routine instruments, computers and high end instruments.
- Activating and facilitating all the committees of the college with regard to performance and provide support to the teachers for their academic, administrative and research endeavours.
- Monitoring academic activities throughout the semester through frequent meetings with Heads of various departments and suggesting means for quality sustenance and enhancement.

- Collecting feedback from students and stake holders on the classroom teaching and communicating it to concerned faculty.
- Carrying out academic audit of each faculty member at the end of every term.
- Motivating faculty members to participate in various seminars, workshops and conferences to enrich their knowledge.
- Interacting with the alumni and seeking feedback on overall improvement in college activities.

2.3.3 How is learning made more student-centric? Give details on the support structures and systems available for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students?

Student centric learning is focussed on the needs of students, their abilities, interests and learning styles where the teacher acts as a facilitator. Classroom teaching is one-to-many, but to make it more student centric, various strategies are adopted by the teacher. The following participatory teaching-learning activities are undertaken:

- 24 X 7 internet facility enables teachers to access on line e-resources such as NPTEL and INFLIBNET in addition to availing the excellent library resources.
- Creative learning in groups is enabled by involving students in preparing theme based posters, models and small projects through UGC-CPE grants.
- Students are exposed to latest developments in the field through extension lectures, experts in the field, brain storming sessions and project based learning.
- Teaching methods are adopted as per the requirement of the prescribed curriculum. Interactive methods are used to discuss fundamental concepts and students are encouraged to ask questions.
- Students are motivated to work on their own and prepare learning models, charts and make presentations. Small modules/ assignments are given to students for self study.
- CBCS method of evaluation for post graduate courses concentrates on all round development of students such as participation in group discussions, review writing and public speaking.
- Students watch films, prepare documentaries on social issues, make posters and enact street plays based on contemporary social problems, all of which broadens their learning.
- Short duration projects given to UG students of Arts and Science has made learning more meaningful and has propagated enquiry based learning amongst the students.
- Annual departmental fests also allow scope for academic and other skills, such as developing leadership qualities and

inculcating team work and independent learning amongst students.

- Teachers have the liberty to develop their own course / study material which is in the form of notes, power point presentations, sharing of e-resources/books with the students. These are also made available on the college website.
- Learning receives an impetus by using ICT, language laboratory and library resources.

The support structure and systems available for teachers are:

(a) Interactive learning -

- Computers with internet facility in every department
- Central instrumentation facility
- All science laboratories are equipped with LCD and Internet facility for demonstrations, showing simulations etc.
- In addition, special software like *MATLAB*, *3D Max*, *MAYA*, *ADOBE Suite*, *SPSS*, *Mathematica*, *ERDAS* etc., are made available to teachers and students to explore computer assisted learning.

(b) Collaborative learning

- Well equipped laboratories – for exploring science through experimentations and projects usually in pairs or in groups of 3 or 4 students.
- Students undertake internships in industries and participate in industry sponsored projects and field work.
- Several curricular activities like report writing, seminars, quizzes, debates, group discussions, group mini projects encourage collaborative learning.

(c) Independent learning

- Two common network resource centres in the library
- Departmental libraries to supplement the main central library
- Special hands-on sessions in advanced laboratory techniques has generated interest amongst students in learning basic sciences and it develops their problem solving abilities.
- Learning resources from NPTEL, INFLIBNET are made available by the college. Teachers have also prepared course wise e-resources for regular teaching in the classroom as well in the laboratories.

2.3.4 How does the institution nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators?

The college provides several opportunities to students, which promote critical thinking, creativity and scientific temper amongst the students.

Imbibing Life Skills

- The annual cultural events such as *Oorja*, *Muktachhanda* and *Josh*, the annual sports event, and various departmental festivals provide a platform for students to bring out their leadership and managerial skills, creativity and other hidden talents. Students are actively involved in advertising, obtaining sponsorship and organizing the events on large scale. This enhances their interpersonal and communication skills. They also learn to deal with group hostilities, denials, failures and criticism with a positive attitude.
- Through departmental associations, students organize various co-curricular activities such as lectures, seminars, workshops, exhibitions, and various competitions for making posters, undertaking projects and writing essays. This gives them an opportunity to share their experience and knowledge with peers/ faculty, develop leadership qualities, and enhance their potential in the respective subject areas.
- Similarly participation in ‘Project Work’ undertaken by students in various subjects in UG and PG programmes, encourages them to develop scientific temper and critical thinking.
- Annual science exhibitions and inter-collegiate project competitions enable self learning and also help students to develop independent and innovative thinking.
- Through career counselling and mentoring activities, college students are guided regarding career opportunities and positive thinking.

Inculcating Universal Values

While the nature of the courses studied under the university affiliation pattern is such that some amount of examination-oriented study is unavoidable, the content delivery pattern adopted by teachers is such as to provoke independent thinking and self-learning amongst students. Apart from educating for livelihood, commitment is also towards inculcating enduring universal values such as respect for different cultures, peace and tolerance, democracy, justice and equality. The multifarious composition of the student community of the college, which includes students from Pune, from other parts of Maharashtra, from other states of India and students from more than 30 countries, facilitates this. Focus is also on creation of a generation of sensitive and compassionate human beings who are socially responsible. Many students participate in Social outreach programmes where they work with the underprivileged sections of society. The college is committed to a holistic education nurturing head, hands and heart.

Promoting Innovation

The college is active in promoting innovative thinking through Inter-University research festival- “*Avishkar*”. This programme acts as a platform where students as well as teachers participate, think differently and carry out research in various areas of Arts and Science. Consistent efforts by the teachers have helped in winning awards in this festival at State, Zonal and National levels.

Students are also encouraged to participate in inter-college subject related competitions wherein they get a chance to showcase their research activities.

2.3.5 What are the technologies and facilities available and used by the faculty for effective teaching? Eg: Virtual laboratories, e-learning-resources from National Programme on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NME-ICT), open educational resources, mobile education, etc.

The college has added necessary hardware and software to equip more classrooms and laboratories with ICT facilities. Desk top computers, laptop computers, portable audio systems, projectors and screens have been procured. Faculty members make use of various teaching aids, e-learning sites, NPTEL and NME-ICT resources. The facilities made available by the college to the faculty for effective teaching are:

- Internet connectivity to all the departments with LAN.
- A dedicated 22 Mbps lease line for faster internet speed.
- 08 servers of which some are dedicated for data storage for learning resources.
- MSDN Subscription- Microsoft
- Special facilities like Language and Astrophysics Laboratory.
- Screening of NPTEL and NME-ICT lectures for PG classes.
- Licensed softwares like ADOBE Suite, Auto Desk 3D Max and Maya, WINDOWS 7/8, ERDAS, Software for Language Laboratory- *Clarity Snet LAB View Academic Suite*- NI Software *Mathematica* Software Node Locked perpetual License Latest Version 10.02, *IBM SPSS* Statistics Base, Advanced Statistics and *SPSS Regression* for teachers and students.
- Nlist-INFLIBNET services are also available in the college and provide access to 4637 titles of e-journals and e-books from Cambridge, EBSCO host, Oxford Scholarship, Springer e-books, Sage publications and Taylor Francis e-books. Use of technological advancements in education has

been in vogue in some departments like Psychology where students interact with experts abroad through “Skype”. Students, who are learning French language, communicate via “Whatsapp” mobile application with French students to improve their linguistic skills.

- Teachers are encouraged to participate in special training programmes and summer/ visiting fellowships at centres of higher learning and excellence. The expertise gained by the teachers is shared with all for effective teaching.

2.3.6 How are the students and faculty exposed to advanced levels of knowledge and skills? (blended learning, expert lectures, seminars, workshops etc.)?

Teaching-learning is a continuous process and being in tune with recent developments helps both the teachers and students to sharpen their skills. Many opportunities are created by the college to expose students and faculty to advanced levels of knowledge and skills.

(a) Blended learning

With advent of facilities like ICT facilities, audio-visual facilities and language laboratory, the faculty has started exploring the use of technology in teaching, which has resulted in implementing the blended learning process for students. Computer assisted learning and digital materials are made available to the students to supplement classroom teaching.

(b) Expert lectures

Renowned personalities from all walks of life like scientists, consultants, businessmen, writers, actors and entrepreneurs are invited to the campus to interact with the students.

- Lecture series by industry experts on latest technologies like cloud computing, Android and web technology are organized for computer science students. Students are also given an opportunity to work on live projects (*Source of infections* with Quick Heal Technologies and *Back up and restore of application data* for Yadava technologies) in software companies. Special workshops were conducted for hands-on training on ‘Robotics’ for students of Electronic science. An interactive International exhibition “*Mathematics That You Can Touch*” was organized. The M. Tech. students of the Department of Mathematics participated in demonstrating learning models in Mathematics to students of other schools and colleges.
- Seminars on advanced analytical techniques like HPLC and LC-MS have made students more oriented towards advanced learning. Workshops on different forms of

psychotherapy, SPSS, Indian Psychology, research methodology etc., are organized to expose Psychology students to more advanced knowledge.

- Lecture workshops by Science Academies on “Nanotechnology: Energy and Health”, have helped students to learn about recent developments in the field. Collaborative programmes with National institutions like ISRO on specific topics like “Transit of Venus” and “Mangalyan” were organized to impart information on “Mars Mission” and generate interest about space research.

(c) Seminars/ workshops

- Teachers have been actively participating in training programmes/ workshops at centres of higher learning and excellence in fields of specialization like National Institute of Technology, Rourkela, ISRO, Georg-August-Universität, Göttingen, National University of Educational Planning and Administration, Venture Centre, National Chemical Laboratory, Pune and Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore.
- Department of Physics has established “Astro Club” for students to understand and learn about space. The activities of the club are lecture series, yearly seminars (state level), annual exhibitions, night sky watch, observation of astronomical events and all India asteroid hunt in collaboration with International Astronomy and Space Centre, UK. The college is also the nodal centre Inter University Centre for Astronomy and Astrophysics (IUCAA) for popularization of science.
- Short term research projects for undergraduate students of Arts and Science have helped develop skills for carrying out research, setting protocols, writing project reports, publishing and presenting research.
- Every year a number of national and international conferences and seminars are organized by various departments wherein students and teachers get exposure to advanced levels of knowledge.

(d) Field visits and educational excursions –

- Science departments arrange field visits as well as educational excursions to various places like national laboratories, universities, industries, wild-life sanctuaries and other places of academic interest every year.

2.3.7 Detail (process and the number of students benefitted) on the academic, personal and psycho-social support and guidance services (professional counselling / mentoring / academic advice) provided to students?

During college life, some students require special kind of support or help from the college.

Academic advice is provided at various stages right from the choice of subjects at the time of admission to the selection of projects by the faculty members. Students are counselled by the Vice-Principals and members of the admission committee. After admissions, the Principal's address during the induction programme provides glimpses of distinctive characteristics of the college, infrastructure/facilities available, glorious traditions of the college and eminent alumni. During the academic year, academic and personal guidance is provided by faculty members, Heads of the various departments and Vice-Principal/s.

In addition, two types of counselling services are provided at our college. The counselling centre, *MAANAS* provides Psychological Testing and Counselling. Teachers are trained to act as mentors to students through special workshops conducted by Psychology Department of the college. For personal counselling, students approach the centre with personal problems like relationship problem, emotional problem, adjustment problem, etc. Problems requiring urgent help are handled by the senior counsellor available; for other problems, student is given appointment and is assigned to a counsellor. Counselling camps are held. Many students take benefit of the camp. Qualified students of PGCCP and faculty provide counselling, and if required follow-up sessions are held.

Career counselling is provided via aptitude, intelligence and personality testing. These tests are administered to the student depending on the type of counselling sought. Generally, testing takes about 3 hours. After testing, the student is assigned a time slot for counselling for which he/she comes along with parents. Counselling interview takes about 30 minutes. The counsellor explains the score to the student and his/her parents, tells about suitable career avenues available and eventually helps the student and parents to arrive at a suitable career option.

About 200 students have benefited from the counselling centre in the last five years.

2.3.8 Provide details of innovative teaching approaches/methods adopted by the faculty during the last four years? What are the efforts made by the institution to encourage the faculty to adopt new and innovative approaches and the impact of such innovative practices on student learning?

Every department adopts innovative methods for teaching which help the students to understand the subject thoroughly. Some innovative approaches include *use of ICT, Learn by Doing in the Laboratory (LBDL) Activity, use of models and charts* prepared by students, *debates, role playing, skits, workshops and Hands-On Sessions* for special techniques used in laboratories. Apart from this, use of films, documentaries, posters, songs, proverbs, short stories and simulation exercises are used to make learning more interesting and effective.

To achieve this, the college makes efforts in terms of providing financial assistance through *short term projects* under UGC-CPE and UGC-BSR schemes. The college has developed ICT infrastructure to keep pace with the changing methodologies in teaching-learning processes at global level. All science laboratories have been strengthened and well equipped.

Teacher training in college and at centres of higher learning and excellence is one of the major initiatives of the college. Newly recruited teachers are provided *one week in-house training programme*, which focuses mainly on use of teaching aids and making multimedia presentations. Out house training includes deputation of teachers to learn more about teaching methods adopted globally, procuring summer fellowships to gain more knowledge in the subject and participation in special training workshops such as Advanced Microscopy, Remote Sensing etc.,

Looking into the diversity of programmes, the college gives freedom to departments to explore new effective methods in teaching-learning. For example, the PG department of Psychology teaches the paper, Pathology combining the lecture method with role-playing in which students enact different types of mental disorders that others are asked to recognize. For the paper in Psychotherapy, students are assessed on the basis of their role play sessions in which they enact a role demonstrating psychotherapies based on Rational Emotive Behaviour Therapy (REBT), Roger's approach, Logo therapy, etc.

Such innovative methods help students to grasp the subject and its intricacies, making learning an enjoyable experience.

2.3.9 How are library resources used to augment the teaching-learning process?

The central library, Bai Jerbai Wadia library has more than 1,72,000 books and 67 journals and periodicals. The library committee of the college looks after the purchase of books and journals every year. The Library committee collects the requisitions for the purchase of books from the Head of departments at the beginning of every academic year to augment the basic resources for teaching-learning process. There has been an addition of 8292 books/ reference books in the past five years.

The rich collection of **old and rare manuscripts (1396)** in the library has now been **digitized**. The digitized copies are available on request. Teachers and students can also access journals as well as periodicals that the library subscribes to. The college also provides personal ID to faculty members and students for accessing INFLIBNET / N-List site that offers more than 80,000 e-books and 3000 e-journals in full text form.

The main library also houses two separate computer laboratories with internet facility specifically for the students. Separate computer section is made available for the visually challenged students. It has a special software “JAWS 13” along with a collection of 125 Braille books.

Apart from this, there are departmental libraries, which are enriched by procuring new books and supplementing the stock from the central library. The departmental libraries also maintain project reports, M.Phil. and Ph.D. dissertations, research journals and reports. Study material such as notes, question banks, magazine/ newspaper cuttings and reference books are also available for the students. Students and teachers have round-the-clock access to all the resources available in the Central as well as departmental libraries. Students make use of these resources for their assignments and reference work for projects/ dissertations.

2.3.10 Does the institution face any challenges in completing the curriculum within the planned timeframe and calendar? If ‘yes’, elaborate on the challenges encountered and the institutional approaches to overcome these.

It is a matter of great pride, that our college does not face any challenges in completing the curriculum within the planned time frame and calendar.

The curriculum is designed by Boards of Studies of affiliating university. The curricula are in the form of units and assigned a specific number of lectures. At the beginning of the academic year, the college provides Teacher’s diary, which provides a clear picture of the number of teaching days available in a particular semester/ term. In

view of this, the teacher prepares the teaching plan, specifying topics to be taught, teaching methods to be adopted etc. This facilitates timely completion of the syllabus.

Although this exercise is done by every teacher, there is always a need to go beyond the syllabus and give extra inputs to bridge the gap amongst related units. This often necessitates readjustments in the teaching plan. To overcome the challenge of teaching the subject and not the 'syllabus', teachers give home assignments, student seminars and promote peer learning for a few selected topics.

2.3.11 How does the institute monitor and evaluate the quality of teaching learning?

For every programme, the specific learning objectives have been clearly spelt out by the teachers and respective Boards of studies. To achieve this, the teaching-learning process is well planned and executed. The college has a well-established monitoring mechanism to monitor the quality of teaching-learning. It is evaluated by the IQAC through:

- Academic and Activity calendar of each department is submitted to the IQAC at the beginning of the academic session.
- Academic audit of all teachers for every semester by evaluating the 'teacher's diary', which provides the teaching plan and record of all academic as well as co-curricular activities of every teacher. This is assessed and the report is submitted through the Principal to the department. The teacher needs to give compliance, if any.
- For every semester, feedback on teaching is taken by IQAC for all programmes. A teacher is evaluated on different parameters such as communication skills, quality of teaching, content and method of delivery, resourcefulness and readiness and accessibility/ availability to students. The feedback system has been made on-line and implemented for all PG programmes in the first phase.
- Feedback for all subjects/ classes/ teachers is assessed by the IQAC and a report is prepared and submitted to the Principal. The feedback is shared with teachers through an interactive meeting where shortcomings/problems are discussed. Solutions to these are also provided to seek improvement in the teaching-learning process.

2.4 Teacher Quality

2.4.1 Provide the following details and elaborate on the strategies adopted by the college in planning and management (recruitment and retention) of its human resources (qualified and competent teachers) to meet the changing requirements of the curriculum.

Highest Qualification	Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	
Permanent/Confirmed Teachers					
Ph.D.	21	13	20	17	71
M.Phil.	4	3	3	8	18
PG	6	4	24	23	57
Temporary teachers					
Ph.D.	----	1	6	10	17
M.Phil.	----	----	3	8	11
PG	----	----	26	61	87

All the recruitments of the college are carried out by our parent organization, Deccan Education Society (DES). At the end of every academic year, the requirement of teachers with subject specializations are submitted to the DES. DES has a separate committee for “Human Resources” which scrutinizes the requirements and takes appropriate action. Posts are advertised as per the requirement in important national newspapers and in the Employment News as well as on the website of Deccan Education Society so as to invite countrywide applications. At the college level all possible efforts are made to bridge the gap between sanctioned and filled teaching posts in adherence to UGC/State Government policies. The human resource recruitment strategies adopted by the college are as follows:

- Assess the need for human resources from various departments/sections of the college.
- Vacancy positions are communicated to the management by the Principal
- All government sanctioned posts are filled using the process recommended by the university and the government.
- Get the roster of reservation of seats approved from the university and government.
- Obtain the NOC from the government for filling up the post.
- Advertise the post in newspapers as well as on DES and college websites.
- Get the selection committee approved from the University.
- With the permission of management and subject to the approval of university, the college appoints competent and qualified teachers as per regulations of UGC and State Government policies.
- Applicants with doctoral and post doctoral degrees are given preference.

To meet the changing requirements of the curriculum, the policy of DES/ College includes:

- Provide conducive environment for their professional growth.
- Peer support and support from the Principal to the teacher for the teaching-learning process as well as other College responsibilities.
- Support in terms of accessibility to infrastructure/ equipment.
- Support from the Local Managing Committee of the college in terms of granting and sanctioning special study leave to the teachers.
- Allow teachers to attend refresher courses or short term courses to upgrade their knowledge.

These measures help the college to retain adequate and well qualified faculty.

2.4.2 How does the institution cope with the growing demand/ scarcity of qualified senior faculty to teach new programmes/ modern areas (emerging areas) of study being introduced (Biotechnology, IT, Bioinformatics etc.)? Provide details on the efforts made by the institution in this direction and the outcome during the last three years.

Professional courses such as Animation, Biotechnology, Computer Science and other newly established programmes like B.Voc. need inputs from experts from the relevant fields. The efforts taken by the departments/ college are as follows:

- Emerging programmes like Animation, Biotechnology and B.Voc. have well-established departments equipped with experienced faculty and infrastructure. Moreover, teaching is supplemented by taking help from experts in the field, senior academicians from the University and scientists from National Institutes.
- For programmes like Computer Science, the teaching-learning process is augmented by taking regular support from the department alumni, industry experts and leading technologists.

The outcome of this entire exercise results in:

- Enhancement of knowledge and skills of students in tune with recent updates and advancements in respective subjects/ fields.
- Wider choice to students for better placements in companies such as Reliance Life Sciences, Lupin Biotech, CDFD, Hyderabad, Persistent, IBM, Harbinger, Zensar and Quick Heal Technologies.

2.4.3 Providing details on staff development programmes during the last four years, elaborate on the strategies adopted by the institution in enhancing the teacher quality.

a) Nomination to staff development programme

Academic Staff Development Programmes	Number of faculty nominated
Refresher courses	57
HRD programmemes	-
Orientation programmemes	45
Staff training conducted by the university	-
Staff training conducted by other institutions	02
Summer / winter schools, workshops, etc.	02
Other training programmemes	38

b) Faculty training programmes are organized by the institution to encourage creativity and innovation in teaching and to empower and enable the teachers in the use of various tools and technologies for improved teaching-learning outcome such as teaching learning methods / approaches, handling new curricula, content / knowledge management, selection, development and use of enrichment materials, assessment, cross cutting issues, audio-visual aids / multimedia, Online e-Resources and teaching-learning material development, selection and use.

College has been proactive in organizing lecture series/ workshops, which focus on overall professional growth and development of teachers. Some of the programmes organized are as follows:

Sr. No.	Training programme	Focus
1	Teacher training programmes for newly recruited teachers : Model for Arts and Science Teachers (MAST)	Reflecting on teaching, understanding the role and responsibilities of teachers, challenges and opportunities in higher education, mentoring, motivation and student counselling, creative problem solving, extension and outreach activities, service conditions and career advancements, teaching aids and scientific models, teacher as a change agent, communication skills, role of teachers, research schemes and funding, understanding the philosophy of research, stress management by learning breathing techniques and computer skills
	e-content development	How to use e-resources and preparation of multimedia presentations to make teaching effective.
2	Enterprise Resource and Planning training programme for students and teachers	Academic and Administrative processes
3	Interactive sessions with UGC officials	Understanding UGC XII plan and schemes for teachers

4	Bahi Shal (SPPU) Lecture series	Improvement in academic process, knowledge and understanding work, work environment, emotional intelligence, documentation and record keeping in library and bench marking service quality.
5	Workshops on syllabus restructuring	Revising and restructuring syllabi in Computer Science, Electronic Science, Physics, Geology, Mathematics and M.C.A.
6	Lecture series on challenges and issues of present system of administration in University-affiliated colleges	Examination reforms, State government norms and government resolutions, life skills and writing of research articles for International journals and research publications.
7	Avishkar Zonal Level Workshops	Innovations in research
8	Website faculty training programmeme	Design and layout of website, server information, process of uploading information on the server and web site
9	Workshop on Academic Performance Indicators (API)	Details and scoring system and new expectations of UGC from teachers
10	Use of SPSS for statistical data analysis	Use of software for data analysis in research for teachers and research students
11	Seminar on Intellectual Property Rights	Intellectual property, Patents/ Patent Laws, copy right and trademarks
12	Workshop on 'Capacity Building' for Heads of departments	Technical skills, functional skills, adaptive skills, planning, organizing, leading and controlling.

- c) **Percentage of faculty invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies; participated in external Workshops / Seminars / Conferences recognized by national/ international professional bodies; presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies.**

Sr. No.		Attended	Participated	Presented
1	Conferences	42	26	302
2	Seminars	40	01	60
3	Symposia	01	01	27
4	Workshops	19	47	24 (Expert/ Resource)

2.4.4 What policies/systems are in place to recharge teachers? (e.g. providing research grants, study leave, support for research and academic publications teaching experience in other national institutions and specialized programmes, industrial engagement etc.)

The college and LMC have played a very supportive role and motivated teachers to recharge, participate in orientation and refresher courses as well as in research activities, publish and present research and other academic endeavours.

The policies of the management to train and recharge the faculty are as follows:

- Depute teachers for orientation, refresher and short-term training programmes, which are necessary for career advancement schemes
- Motivate teachers to participate in training workshops for revised curricula and upgrade their skills
- Encourage teachers to participate in seminars and conferences to expand their knowledge base and domain related expertise
- Provide opportunities to teachers to learn new technologies and ICT especially in teaching-learning

This is possible through following measures:

- Streamline process for research by assigning roles and responsibilities of Research Coordination Committee (RCC).
- Provide seed money to undertake short term research projects.
- Orient teachers to do research by making them aware about funding agencies for research, help them in writing research proposals, process research proposals, and submit it to funding agencies.
- Ensure optimum utilization of funding obtained under research schemes and ensure timely submission of utilization to the funding agency.
- Create awareness amongst teachers regarding various databases, citation index, h-index, SNIP and SJR.
- Grant study/special leave for participating in research programmes, industry engagement and exchange programmes for sharing their expertise at Universities / Institutes within the country and abroad.

2.4.5 Give the number of faculty who received awards / recognition at the state, national and international level for excellence in teaching during the last four years. Enunciate how the institutional culture and environment contributed to such performance/achievement of the faculty.

State Level	National Level	International Level
09	10	02

The college has a set of core values, which have been practised for the past several years. These core values help in nurturing idealism, academic excellence and commitment towards education amongst stakeholders.

Our Values

- Commitment to Scholarship and Learning.
- Commitment to Excellence
- Respect for All
- Alliance with the wider Community
- Encouragement to Innovation, Experimentation and Creativity

2.4.6 Has the institution introduced evaluation of teachers by the students and external peers? If yes, how is the evaluation used for improving the quality of the teaching-learning process?

The college has established a mechanism for taking feedback on teaching. The IQAC implements the feedback process for all programmes in each semester, analyses the feedback and shares it with teachers to seek improvement in the teaching-learning process. The IQAC has external experts who share their expertise in this regard. Quality of teaching, resources used and prescribed, methods adopted for teaching in terms of teaching aids and models and course completion are presented by every teacher in the yearly appraisal reports (API). These reports are assessed by the IQAC and Principal and the scores are given. These scores are again verified and validated by the University Experts.

2.5 Evaluation Process and Reforms

2.5.1 How does the institution ensure that the stakeholders of the institution especially students and faculty are aware of the evaluation processes?

- The schedule for evaluation given in the Academic Calendar is displayed on notice boards and on the college website.
- Students are informed about the evaluation system at the beginning of the academic sessions, during orientation programmes and at appropriate intervals.
- Students are also intimated about the portion of curriculum for the assessment/ examinations, nature and format of question paper and weightage of marks for topics prescribed by the University.
- Students are provided with question banks, reference material/ books.
- The detailed schedule for examinations for UG programmes and continuous assessment for PG programmes is displayed on the notice boards and is strictly implemented.
- The schedule for examinations is conveyed to the teachers in advance through the “Academic and Activity Calendar” uploaded on the college website.

2.5.2 What are the major evaluation reforms of the university that the institution has adopted and what are the reforms initiated by the institution on its own?

The reforms by the university that the institution has adopted are:

- One Internal examination for UG students at College level.
- The students are also evaluated based on field reports/ visit reports on the basis of their report writing, presentation, paper reviews etc.
- Major reforms have been introduced by the University through the Choice Based Credit System for Post Graduate programmes, which focuses on overall development of the student. The basis of continuous Internal evaluation are:

- (a) Written Test (not more than one or two for each course as applicable), Term paper, Journal/Lecture/Library notes, Seminar presentation, short quizzes, assignments, Extension Work, an Open Book Test (with the concerned teacher deciding which books are to be allowed for this purpose) and Mini Research Project by an individual student or a group of students.
- (b) Also reforms like introduction of Cyber security/Information Security, Human Rights, and Skill Development are introduced by university for 10 compulsory credit points.

The reforms initiated by the college are:

- For continuous assessment at PG level, the college adopts some evaluation methods, other than those prescribed by the University with prior discussion and approval from the department faculty. For example, in Psychology, students are first trained in application of SPSS software for statistical analysis and then assessed on the basis of small assignments like computation of standard deviation, correlation etc., with the help of SPSS.

2.5.3 How does the institution ensure effective implementation of the evaluation reforms of the university and those initiated by the institution on its own?

College makes every effort to effectively implement the evaluation reforms of the university:

- The Central Examination Committee prepares the Examination Schedule for UG internal examination. In-house faculty is duly assigned supervision work to ensure stringent vigilance during examination. The supervision chart is sent to respective departments well in advance. The faculty is assigned supervision duty also for the final examination.
- For FYBA / BSc internal and final examinations, Central Assessment Programme (CAP) is arranged and time table in that regard is circulated to respective departments for the information of concerned examiners. Teachers are requested to give their contact details during vacation for any emergency concerning examination / marks entry.

- Internal examination marks are displayed in the respective departments for students. Queries and grievances, if any, are sorted out and attended to immediately.
- Lectures in Cyber Security are scheduled and conducted centrally. Question papers are set by Computer Science Department and are sent along with answer keys to PG departments. The examination is conducted as per the schedule fixed centrally.

For effective implementation of the evaluation reforms of the college:

- Detailed schedule of internal examination at UG and PG is communicated to students in advance.
- Heads of department / PG coordinators call a meeting of the department faculty if any new evaluation method has to be used for assessment. Suggestions given by faculty are considered and new methods, if found suitable, are approved unanimously.
- The Heads of department / coordinators monitor effective and timely implementation of the system and procedure of evaluation. Meetings are held with the department faculty as and when required.

2.5.4 Provide details on the formative and summative assessment approaches adopted to measure student achievement. Cite a few examples which have positively impacted the system.

Students are assessed based on formative assessment which is customized to suit the objective of the subject and summative assessment as prescribed by the University:

- Formative assessment includes Seminar presentation, short quizzes, assignments, Extension Work, an Open Book Test (with the concerned teacher deciding which books are to be allowed for this purpose) and Mini Research Project by an individual student or a group of students, role playing, workshops, communication skills etc.
- The college provides opportunities to students to exhibit their knowledge through the medium of expression (oral/ written) desired by the student.
- The outcome of the entire exercise is that the evaluation method does not become a hurdle while evaluating students. Students can optimally express their knowledge and this enhances their confidence.

2.5.5 Detail on the significant improvements made in ensuring rigor and transparency in the internal assessment during the last four years and weightages assigned for the overall development of students (weightage for behavioural aspects, independent learning, communication skills etc.)

- Showing answer sheets to the students and obtaining their signature on the printed mark list helps in maintaining transparency.
- While no weightage is assigned specifically to different aspects of student development, aspects such as communication skills get tested

through written tests as well as viva voce. Projects, presentations and group discussions allow scope for testing the capacity for independent exploration and learning, while enhancing communicative abilities. As of now, there is no provision for evaluating behavioural aspects through the University Evaluation mechanism or even at the college level.

2.5.6 What are the graduate attributes specified by the college/affiliating university? How does the college ensure the attainment of these by the students?

The University has not specified any Graduate attributes. But the college always keeps in mind certain desirable attributes while imparting teaching and ensuring effective learning. At the end of the process, a student is expected to be equipped with the following attributes/skills:

- Sound knowledge of the subject
- Basic practical skills for the work-sphere
- Good communication skills
- Life skills
- Responsible global citizen

The college helps the student in attaining these attributes not only through academic training, but also through the different co-curricular and extra-curricular activities available on the campus.

2.5.7 What are the mechanisms for redressal of grievances with reference to evaluation both at the college and University level?

The college and university have a well defined process for addressing the grievances with reference to evaluation. The following table provides a brief overview of the grievance Redressal system.

Process (I) : Examination form filling: On-line as per the time table of the University

Grievance : Discrepancies in Name, Selection of subjects etc.

Correction mechanism : The college Examination Cell

- Appropriate form is filled by the student to make necessary corrections within the stipulated time period. This is reported to University Examination Centre. After authentication, the University Examination Centre makes the necessary corrections.

Process (II) : Issue of Examination Hall Ticket.

Grievance : Discrepancies in Name and Subject Selection

Correction mechanism : College Examination Cell

- Appropriate Form is filled and submitted by the student to the college Examination Cell and this document is forwarded to the University Examination Centre for necessary corrections.

Process (III) : Evaluation

Grievance : Revaluation

Correction mechanism : College Examination Cell

- A student can obtain photocopy of answer sheet of the desired subject by filling on-line application on the University website.
- Students submit this form to the college Examination Cell, which duly forwards it to the University Examination Cell after due authentication.
- The student gets the photocopy of the desired answer sheet within 15-20 days.
- If student desires revaluation of the answer sheet then he/she needs to apply by filling the On-Line form on the University website within ten days. The form is authenticated and forwarded by the college Examination Cell.
- The university looks into the grievance and takes the final decision in the matter.

Process (IV) :

Other Grievances : Discrepancies in Mark Sheet

Correction mechanism : College Examination Cell

- College asks for a written application from the student regarding the grievance.
- The individual application is sent along with supporting documents to the Controller of Examinations, who then scrutinizes and makes corrections.
- Within 15 days, the revised document is sent to the college and then delivered to the student.

2.6. Student performance and Learning Outcomes

2.6.1 Does the college have clearly stated learning outcomes? If 'yes' give details on how the students and staff are made aware of these?

Yes, the college has clearly stated learning outcomes for all the programmes. The details are as follows:

- The Students are made aware of these learning outcomes in the first interaction/Orientation programmes where the Principal addresses all the students.
- The teaching staff from all the departments of the college formulates learning outcomes for each course, for every academic year and these are communicated to the students at the beginning of the academic year.
- Graduate attributes for students are well defined in terms of communication skills, life skills, universal values and problem solving abilities.
- The university looks into the grievance and takes the final decision in the matter.

2.6.2 Enumerate on how the institution monitors and communicates the progress and performance of students through the duration of the course/ programme. Provide an analysis of the students’ results/ achievements (Programme/ course wise for last four years) and explain the differences if any and patterns of achievement across the programmes/courses offered.

- The marks of each assessment (conducted by the college) are displayed on the Department Notice Board.
- A collective list of marks obtained by students in all internal assessments is also displayed/made available to the students through which students can compare their performance.
- The departments also prepare “subject wise” result sheets after the results are declared by the University.

Year	2010-11	2011-12	2012-13	2013-14
B.A. (appeared)	405	401	469	494
Passed	366	401	432	444
Completion rate	90%	100%	92%	90%
B.Sc. (appeared)	712	662	723	833
Passed	570	547	578	616
Completion rate	80%	83%	80%	74%
M.A. (appeared)	169	182	176	163
Passed	151	155	140	135
Completion rate	89%	85%	80%	83%
M.Sc. (appeared)	492	480	471	468
Passed	404	384	373	324
Completion rate	82%	80%	79%	69%
M.C.A. (appeared)	63	66	59	68
Passed	53	65	56	61
Completion rate	85%	98%	95%	90%
M.Tech. (appeared)	27	24	23	23
Passed	26	22	18	23
Completion rate	96%	92%	78%	100%

2.6.3 How are the teaching, learning and assessment strategies of the institution structured to facilitate the achievement of the intended learning outcomes?

The following programmes are used by all departments to achieve intended learning outcomes:

Teaching		Learning		Assessment	
Strategies	Structure	Strategies	Structure	Strategies	Structure
Effective Communication	ICT enabled	Understanding the subject	Charts, Models, Learn By Doing Lab (LBDL), Access to web and Library resources	Transparent Process	Established Mechanism as per University Guidelines.
Updation of Knowledge	Web Sources,	Expression	Group discussion	Formative	Orals/ Viva Voce,

	Open Learning and Library Resources		and presentations		Presentations, Group Discussion & Competitions (Essay/ Debate/ projects)
		Writing skills	Assignments, Review papers	Summative	Written and Practical Examination

These programmes ensure the effective attainment of the graduate attributes as stated in 2.6.1

2.6.4 What are the measures/initiatives taken up by the institution to enhance the social and economic relevance (student placements, entrepreneurship, innovation and research aptitude developed among students etc.) of the courses offered?

The initiatives deployed by the college to enhance social and economic relevance as well as to enhance student learning are as follows:

- Placement Cell: the Placement cell offers pre-placement and Placement assistance to students and prepares them to face interviews. The cell is an active ingredient of the college system and invites several IT companies and industries for placements. More than 85% of students from computer science and M.Tech. are placed through the placement cell.
- Recently, the college has established “Industry-Institute Interaction Cell” which has served as a platform for students and industry experts to interact and share experiences. Guest lectures and panel discussions have been organized by the Cell. This has helped the college in understanding the needs of industries, especially the Life Science industry and has facilitated placement of life science students. The Cell also invites entrepreneurs, who share their experience with students and helps them to understand the methods to be followed to become a successful entrepreneur.
- Research culture amongst the students has been inculcated by assigning short term research projects through UGC-CPE and UGC-BSR grants for undergraduate students. A teacher is assigned to a group of students, who acts as a mentor/ supervisor for the project assigned. Students learn to do research, standardize protocols, conduct surveys, use statistical analysis, write reports, publish and present papers in conferences.
- The college SOEC has played an important role in propagating social awareness amongst students by networking with neighbourhood communities and other social organizations and helped the students to understand social problems. There is participation of students in campaigns on various health, gender, sexual abuse and environmental issues. These types of joint ventures have helped the college/students in understanding the needs of society in general and created awareness among students in particular.

2.6.5 How does the institution collect and analyze data on student performance and learning outcomes and use it for planning and overcoming barriers of learning?

The college has the following mechanism to analyze the shortfalls in achieving the expected learning outcomes and suggest improvement measures.

- Subject wise analysis of results and mark lists showing comparative performance of students in internal assessments/examinations are prepared.
- This data helps in understanding the areas of academic weaknesses of the student.
- This is followed by counselling the students to seek improvement.
- Overall results help in making efforts to make the teaching methods more learner-oriented.
- In case of poor performance in a specific subject, the concerned teacher is asked to undertake remedial measures.

2.6.6 How does the institution monitor and ensure the achievement of learning outcomes?

Monitoring and ensuring the achievement of learning outcomes is done by undertaking the following measures:

- Effective implementation of the curriculum prescribed by SPPU, Pune.
- Specific mechanism (Academic calendar, teaching plan, and academic audit) followed for monitoring the curriculum implementation and evaluation system (Schedule for examinations).

2.6.7 Does the institution and individual teacher use assessment/ evaluation outcomes as an indicator for evaluating student performance, achievement of learning objectives and planning? If 'yes' provide details on the process and cite a few examples.

Yes, teachers use assessment/ evaluation outcomes as an indicator for evaluating student performance, achievement of learning objectives and planning. Monitoring the students' progress is an integral part of the functioning of the college. For PG students, the CBCS, a continuous assessment method, is followed. Students are evaluated based on their assignments, orals, presentations, role playing, laboratory and field work. All these form part of their continuous assessment. Their performance is assessed and feedback is communicated to the students immediately.

Subject wise analysis of results and mark lists showing comparative performance of students in internal assessment examinations are prepared. This data helps in understanding academic weaknesses of the student. The student is counselled to seek improvement. The interpretation of the entire process is used to make the teaching methods more learner oriented.

□ □

CRITERION III : RESEARCH, CONSULTANCY AND EXTENSION**3.1 Promotion of Research****3.1.1 Does the institution have recognized research centre/s of the affiliating University or any other agency/organization?**

Yes. The college has recognized Research Centres of SPPU, Pune. The Departments recognized as Research Centres by the University are Botany, Chemistry, Economics, Electronic Science, Environmental Science, Geology, Mathematics, Physics and Zoology.

3.1.2 Does the Institution have a research committee to monitor and address the issues of research? If so, what is its composition? Mention a few recommendations made by the committee for implementation and their impact.

Yes, the college has a Research Coordination Committee (RCC) to monitor and address the issues of research in the college. The RCC looks into:

- Creating awareness about various funding agencies, their schemes, proformas and thrust areas.
- Encouraging faculty to participate in research activities.
- Organising interactive sessions with scientists from national laboratories.
- The composition of RCC is as follows:

No.	Name	Designation	
1.	Dr. Ravindrasinh Pardeshi	Principal	Chairman
2.	Dr. Nitin Kulkarni	Vice Principal	Member
3.	Dr. Sameer Terdalkar	Coordinator, IQAC	Member
4.	Dr. Vijay Tadke	Associate Professor, Department of Chemistry	Member
5.	Dr. Nandkumar Mandlik	Assistant Professor, Department of Physics	Member
6.	Dr. Shyam Mude	Assistant Professor, Department of Geology	Member
7.	Dr. Dhananshri Godbole	Assistant Professor, Department of Biotechnology	Member
8.	Dr. Suneeti Gore	Assistant Professor, Department of Microbiology	Member
9.	Dr. Ashish Mane	Assistant Professor, Department of Environmental Science	Member
10.	Dr. Megha Deuskar	Assistant Professor, Department of Psychology	Member
11.	Smt. Kavita Khobragade	Assistant Professor, Department of Computer Science	Member
12.	Shri. Sanjay Supalkar	Accounts Section (Schemes/ Projects funded by UGC)/ ISRO/ BRNS	Member
13.	Shri. Pravin Salunkhe	Accounts Section (Schemes/ Projects funded by BCUD, SPPU)	Member
14.	Dr. Shankar Laware	Associate Professor, Department of Botany	Co-ordinator RCC & ARC

The RCC has given the following recommendations for enhancement of research in college:

- Appoint a coordinator for each centre to co-ordinate the activities of nine research centres in college.
- Identify potential researchers who are eligible for undertaking research.
- Conduct orientation sessions for potential researcher to disseminate research related information like funding agencies, preparation of research proposals, ethical issues, plagiarism, submission of reports and audited statements of expenditure publications, databases and impact factor.
- Liaison with funding agencies for facilitating research related issues.
- Organize workshops and training sessions for students to facilitate participation in research festivals like “Avishkar” and admissions of Ph.D. students in the college.
- Implement credit courses for Ph.D. students.

These recommendations resulted in:

- Increased participation and submission of research projects by the faculty.
- Substantial increase in major and minor research projects.
- Increase in student involvement to undertake small projects through UGC-CPE, UGC-BSR and establishment of mentor-mentee concept.
- Overwhelming response of students for participation in University research festival – “Avishkar” and awards won by teachers and students at state/ zonal and national levels.
- Increase in the number of student publications at national/ international level. This has motivated them to pursue further research.

3.1.3 What are the measures taken by the institution to facilitate smooth progress and implementation of research schemes/projects? autonomy to the principal investigator; timely availability or release of resources; adequate infrastructure and human resources; time-off, reduced teaching load, special leave etc. to teachers; support in terms of technology and information needs; facilitate timely auditing and submission of utilization certificate to the funding authorities; Any other?

a) Autonomy to the principal investigator

The principal investigator of research project(s) funded by external funding agency enjoys freedom to carry out and implement the project. Freedom is given to the principal investigator to purchase equipment and instruments as per his/her needs.

b) Timely availability or release of resources

Resources are made available to the principal investigator. The RCC coordinator looks into the requirements and procurement of instruments and special facilities required for conducting the research project.

c) Adequate infrastructure and human resources

The infrastructure available in the Central Instrumentation Facility as well as in the department is easily available for research. Apart from this, the college provides space for research, infrastructure and assistance needed for research.

d) Time-off, reduced teaching load, special leave etc. to teachers

- Special study leave is sanctioned for professional development or for undertaking research at national/ international institutes/ universities. A teacher from the department of German was provided special leave to undertake research at Göttingen University, Germany for two months.
- The college also promotes teachers to undergo short term training courses/ programmes at centres of higher learning and excellence. Teachers from the department of Physics have participated in summer fellowship programme of JNCASR, Bangalore.
- Duty leave is also sanctioned (subject to norms prescribed by State Government) to teachers to undertake field work and present their findings in seminars and conferences.

e) Support in terms of technology and information needs

The RCC plays pivotal role in overall conduct of research activities in the college. The college has dedicated a lease line of 22Mbps for internet connectivity. All departments have sufficient number of computers and peripherals, which help the researcher to gain information and knowledge required in their respective areas of interest. Departments subscribe to national and international journals. The college is also a member of UGC-NLIST-INFLIBNET through which e-journals are made available.

- f)** Facilitate timely auditing and submission of utilization certificate to the funding agencies.

3.1.4 What are the efforts made by the institution in developing scientific temper and research culture and aptitude among students?

- **Department Festivals:** Every department organizes the annual departmental festivals which provide a platform to the students to exhibit their talents and skills. The science exhibition consisting of innovative scientific models and posters help in nurturing the scientific temper. This exhibition is kept open for school students as well.
- **Avishkar and Anveshan Research Competitions:** Over years, there has been active participation of students in the university research festival-Avishkar. The RCC encourages the participation of students by organizing interactive sessions with experts and providing teacher mentors.

- **UGC Short Term Projects:** The college has been supporting research for students through activities/ schemes like UGC-CPE and UGC-BSR. Through these activities the college provides financial and infrastructural support to the students to do research projects of short duration. The research projects give hands on experience to students on ‘how to do research’. Some students also have published their research in reputed journals.
- **PICC:** The college had started an innovative programme called PICC (Pune Inter-College Consortium) with the objective of nurturing research talent amongst undergraduate science students. This has got overwhelming response from students.
- **DBT STAR Programme :** This programme was designed for undergraduate students of six departments viz., Biotechnology, Chemistry, Electronic Science, Physics, Microbiology and Zoology. The programme focused on giving hands on experience and skill development through 27 workshops.

3.1.5 Give details of the faculty involvement in active research (Guiding student research, leading Research Projects, engaged in individual/collaborative research activity, etc.)

There are 31 recognized M.Phil./Ph.D. research guides and 60 teachers involved in active research funded by UGC, ISRO, BRNS and SPPU. Of these, 42 minor and 3 major research projects are completed and 27 minor and 3 major research projects are ongoing.

The details of faculty involvement in active research is provided in **Annexure- III (A) and Annexure III (B)**.

3.1.6 Give details of workshops/ training programmes/ sensitization programmes conducted/organized by the institution with focus on capacity building in terms of research and imbining research culture among the staff and students.

The college has taken several initiatives to encourage research and research culture amongst the students and teachers. Some of the initiatives include organizing seminars, workshops, lecture series and training sessions on recent trends in research as well as face to face interaction with scientists.

Some of the programmes organized were- seminar on Intellectual Property Rights, interactive session “Technology Vision Exercise 2035 (brain storming session and student interaction in collaboration with DST)”, workshops on use of software in research, workshops on Astrophysics, workshop on “AVISHKAR”, training on advanced analytical techniques of HPLC and LC-MS, interaction with American Astronaut (Ms. Marsha Ivin), interactive seminar on “55 days in Space” and career opportunities, sessions on advancements in nanotechnology and defense, mental health movement in India, talks on youth theatre in Germany, seminar on recent trends in mycology

and plant pathology, guest lectures on cancer research, Ramanujan Circle method, “Sustainability, optimality and economic development policy”, lecture series on “German culture” and “Austrian culture”, intensive one week course on Philosophy, “Depiction of women in literature and media” etc. have been organized. The details are provided in **Annexure - III (C)**.

3.1.7 Provide details of prioritized research areas and the expertise available with the institution.

Sr. No.	Department	Research Areas/ Expertise
1	Economics	International Trade, International Finance, Public Economics, Indian Economy, Growth and Development, Banking and Finance, Gender Inequality, Agriculture, Service sector and Industrial Economics
2	English	Linguistics and English Language and Literature teaching,
3	Geography	Zoogeography and Urban Issues with reference to Biodiversity
4	Marathi	Literary Criticism, Linguistics and Saint Literature
5	Psychology	Health Screening Index, Quality of Work–Life Scale, Health Psychology, stress management, drum-therapy, and Research Methodology
6	Biotechnology	Applied Microbiology, Stem Cells, Plant Biotechnology and Immunology
7	Botany	Plant biotechnology, Plant Physiology, Aerobiology, Genetics and Plant Breeding, Nanotechnology, Mycology.
8	Chemistry	Organic and Material Science, Physical Chemistry and Biochemistry,
9	Electronic Science	Virtual Instrumentation, Wireless Sensor Network, Embedded systems, Power Line Communication, Digital Image Processing and Power Electronics.
10	Environmental Science	Environmental Impact Assessment Studies, Environmental Pollution and Quality Monitoring, Resource Management, Biodiversity Conservation and Energy conservation
11	Geology	Structural Geology, Geochemistry, Palaentology, Sedimentology, Igneous Petrology, Remote Sensing and GIS, Gemology and Hydrogeology.
12	Mathematics	Lattice Theory, Hydrodynamics and Number Theory
13	Microbiology	Antimicrobial Activity, Probiotic, Endophytes and Nano-Biotechnology and Bioremediation
14	Physics	Material Science, Astronomy and Astrophysics and Radiation Physics
15	Statistics	Mathematical Statistics and Modeling of Maternal Infant HIV Transmission
16	Zoology	Animal Parasitology, Fishery Biology, Ecology of Bats, Toxicology and Mangrove Ecology.

3.1.8 Enumerate the efforts of the institution in attracting researchers of eminence to visit the campus and interact with teachers and students?

The college organizes lecture series, panel discussion, workshops and interactive sessions with eminent researchers.

Sr. No.	Name of Scientist/ Researcher	Affiliation	Title of session	Date
1.	Shri. Rajesh Balani	Joint Director, Petroleum Conservation Research Association, Mumbai	Energy Conservation and Environmental Protection	20/07/2011
2.	Dr. Nilima Bhadbade	ILS Law College, Pune	What is Intellectual Property Right?	26/11/2011
3.	Dr. Medha Kumthekar	Former Head, Department of Psychology, SNDT University, Pune Campus.	Workshop on Use of Statistics in Psychological Research	19/01/2011
4.	Prof. Rybak Christopher	Bradley University, Illinois, USA	Mindfulness and Well Being	19/01/2011
5.	Dr. Kiran Kumar	Professor, of Psychology, University of Mysore, Mysore	Health, Well Being and Quality of Life: Some reflections on Contemporary trends	17/01/2011
6.	Prof. K.B.Kumar	Dean and Head of Clinical Psychology, Sweekarar Academy, Secunderabad	Psychoneuroimmunology: Future and Challenges'	17/01/2011
7.	Dr. Renu Batra	Joint Secretary, UGC, New Delhi	UGC XII Plan	24/01/2012
8.	Prof. Govind Swarup	NCRA, TIFR	Frontiers in Radio-Astronomy- The New Challenges	17/01/2012
9.	Prof. Nayana Shah	University of Cincinnati, USA	Superconductivity and Dissipation at the Nanoscale	17/01/2012
10.	Prof. Joanna Rankin	University of Vermont, USA	Connecting Radio Pulsar with the Emission Physics	17/01/2012
11.	Dr. L.S.Shashidhara	Professor and Coordinator, Biology, IISER, Pune	Research in Biology	10/02/2012
12.	Dr. Mrs. Mukti Prasad	Scientist, DST, New Delhi	Technology Vision Exercise, Brain Storming Session/ Student Interaction Meeting for students of all Colleges	06/02/2012
13.	Prof. R.K.Shevgaonkar	Director, IIT, New Delhi	Technology Vision Exercise, Brain Storming Session/ Student Interaction Meeting for students of all Colleges	06/02/2012

Sr. No.	Name of Scientist/ Researcher	Affiliation	Title of session	Date
14.	Ms. Marsha Ivin	Lady Astronaut, NASA	55 Days in Space: The Story of an American Astronaut	25/04/2012
15.	Shri. Umeshchandra Sarangi	Principal Secretary (Retd), Government of Maharashtra	Agriculture in Maharashtra	29/08/2012
16.	Prof. Ajit Kembhavi	Director, IUCAA, Pune	Observing General Relativistic Effects in Black Hole System- The Iron Line	05/09/2012
17.	Dr. S.G.Kulkarni	Scientist Defense Research and Development Organization	Nuclear Power In India	17/09/2012
18.	Prof. Jean Marc Deshouillers	Ecole Polytechnique, Paris	The Hardy- Littlewood- Ramanujan Circle Method	12/09/2012
19.	Prof. Subhash Padhye (Fullbright Scholar)	NIH Visiting Professor and Director, ISTR, Pune	Cancer Research	13/09/2012
20.	Dr. Vidula Abhyankar	Jail Psychologist, Australia	<ul style="list-style-type: none"> o Lecture on 'Neuroplasticity' o Skype lecture on 'Autisim' for PG students 	04/01/2012
21.	Dr. Renu Batra	Joint Secretary, University Grants Commission, New Delhi	Schemes under UGC XII Plan with reference to research	27/01/2012
22.	Prof. Yaganeh Farzin	University of California, USA	Sustainability Optimality and Economic Development Policy	26/04/2013
23.	Dr. B.J.Prashantham	Director, Christian Counseling Centre, Vellore	Lecture on need for Skill up gradation among psychotherapists and counselors.	02/02/2013
24.	Dr. Anuradha Sovani	Associate Prof, Dept of Applied Psychology, Mumbai University	Lecture on Developing Human Potential: Issues, Perspectives and Challenges.	31/01/2013
25.	Dr. Ram Takwale	Former Vice Chancellor, SPPU, Pune, YCMOU and IGNOU	Lecture on 'Development of human potential in always connected world.	01/02/2013
26.	Dr. P. H. Lodhi	Former Head, Dept of Psychology, SPPU, Pune	<ul style="list-style-type: none"> o Lecture series on 'Research Methodology' o Workshop on 'SPSS' 	
27.	Dr. Indira Jai Prakash	Former Head and Gerontologist, Department of Psychology, Bangalore University, Bangalore	Lecture on 'Harnessing the potential of the geriatric population	31/01/2013

Sr. No.	Name of Scientist/ Researcher	Affiliation	Title of session	Date
28.	Prof. Uma Vaidya	Hon'ble Vice Chancellor, Kavikulguru Kalidas Sanskrit Vidyapeeth, Nagpur	10 th Convention of Brihanmaharashtra Prachyavidya Parishad	20/12/2013
29.	Prof. Pandit Vidyasagar	Hon'ble Vice Chancellor, Swami Ramanand Teerth Marathwada University, Nanded	Role of Teacher in an Autonomous Organization	10/09/2013
30.	Dr. Frazer Mascarenhas	Principal, St. Xavier's College, Mumbai	A Case Study of St. Xavier's College as an Autonomous Institution	11/09/2013
31.	Dr. Ravindra Jaybhaye	OSD, SPPU, Pune	AVISHKAR Zonal Workshop for Teachers and Students "Research in Basic Sciences" Agriculture and Animal Husbandry.	19/12/2013
32.	Dr. Anil Lachke	Former Scientist, NCL, Pune		
33.	Dr. Ashok Giri,	Scientist, NCL, Pune		
34.	Prof. S. K. Pardeshi	Professor, Department of Chemistry, SPPU, Pune		
35.	Mrs. Renat Hoffman	Heidelberg, Germany	Portrait of Women in German Literature	21/08/2014
36.	Prof. Sulbha Kulkarni	Professor, IISER, Pune	Nanotechnology for Energy and Medical Applications	10/10/2014
37.	Prof. Milind Watwe	Professor, ISSER, Pune	Nanotechnology for Health	10/10/2014
38.	Dr. C.S. Gopinath	Scientist, NCL, Pune	Nanotechnology for Solar Energy Applications	11/10/2014
39.	Prof. Santosh Haram	Professor, Dept. of Chemistry, SPPU, Pune	Nanotechnology for Energy and Electrochemistry Applications	11/10/2014
40.	Padmashree Prof. Pramod Kale	Former Director, Space Application Centre, Ahmedabad and Vikram Sarabhai Space Centre	Interactive Seminar on Space Missions and Career Opportunities in ISRO	25/09/2015
41.	Prof. Anil Bhardwaj	Director, Space Physics Laboratory, VSSC, ISRO	Indian Planetary Mission	18/02/2015
42.	Padmavibhushan Prof. Raghunath Mashelkar	Former, Director General, CSIR, New Delhi.	Research and Industry	14/12/2015
43.	Dr. J.K. Wani	Eminent Statistician "Order of Canada"	Actuarial Science	11/2/2013

3.1.9 What percentage of the faculty has utilized Sabbatical Leave for research activities? How has the provision contributed to improve the quality of research and imbibe research culture on the campus?

Sabbatical/ special leave is granted to teachers who wish to avail the leave for study/ research purpose. However, the percentage of faculty availing this facility is very less. The teachers who have availed special leave are as follows:

Sr. No.	Name of Teacher	Department	Status	Name of the Institute/ University	Period
1	Smt. Amruta Kulkarni	German	Visiting Fellow (German Academic Exchange, DAAD)	University of Göttingen	01/04/2013 to 30/06/2013
2	Dr. Ashish Yengantiwar	Physics	Visiting Fellow	Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore	01/11/2013 to 30/11/2013 and 01/05/2014 to 30/06/2014
3	Dr. Haribhau Gholap	Physics	Summer Research Fellow	Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore	01/05/2014 to 26/06/2014

Teachers' participation in research activities has helped the college in:

- Establishment of linkage for academics and research.
- Access to international library and other resources. (in case of German language)
- Participation in workshops/ seminars on understanding contemporary trends in teaching literature, multilingualism.
- Framing and revising the current syllabus (German).
- The expertise/ techniques learnt at JNCASR, Bangalore has helped in post graduate teaching and research.
- Positive impact on learning environment and more post graduate students are now applying for summer research fellowship programmes.
- A workshop on “nanotechnology for energy and health” has been conducted in association with Indian Academy of Sciences.

3.1.10 Provide details of the initiatives taken up by the institution in creating awareness/advocating/transfer of relative findings of research of the institution and elsewhere to students and community (lab to land).

- The research findings and publications are shared amongst the teachers and students and community via Research Gate a social networking site.
- Students and teachers are encouraged to publish their findings in reputed journals.
- The copies of the projects are kept in the departmental and main library for a larger audience to access.
- A research invention – ‘anti bacterial formulation’ for oily spot disease of pomegranate is useful for the management of oily spot disease of pomegranate.

3.2 Resource Mobilization for Research

3.2.1 What percentage of the total budget is earmarked for research? Give details of major heads of expenditure, financial allocation and actual utilization.

Teachers are encouraged to apply for major and minor research projects to the BCUD, UGC, ISRO, DST and the sanctioned amounts are disbursed as per the guidelines of the funding agencies. In addition the college also receives grants through different schemes like CPE, DBT STAR and BSR of which a part is utilized for research activities. Furthermore, there is a separate budget of Rs. 8,25,625.00 for Ph.D., which includes budget heads like course work, affiliation charges, consumables, repair and maintenance and other expenses. Actual expenses on research including CPE (UG and PG) were of Rs.999058.00 (Ph.D. course work: Rs.34800.00; affiliation charges: Rs.42500.00; consumables: Rs.748758.00; repair and maintenance: Rs.1,73,000.00; other expenses: Rs.374650.00)

3.2.2 Is there a provision in the institution to provide seed money to the faculty for research? If so, specify the amount disbursed and the percentage of the faculty that has availed the facility in the last four years?

- Department of Electronic Science has Rs.2.00 lakhs as seed money for research, which is used by faculty and scholars for recurring expenses.
- Under the CPE/UGC scheme, 65% of the faculty was involved in 236 short duration research projects. The sum of Rs.18,02,756.00 were disbursed for this purpose.
- Our parent organization- DES has provided Rs. 336660.00 as financial assistance for filing of patents.

3.2.3 What are the financial provisions made available to support student research projects by institution?

- The finance for student research projects is made available through UGC-CPE and UGC-BSR schemes.
- For undergraduate students the fund provided is Rs.5,000.00 and for post graduate student it is Rs.10,000.00 in case of UGC-CPE projects while Rs. 3000 as project grant and Rs.2000.00 as stipend under UGC-BSR scheme is given to students.

The summary of research projects sanctioned under UGC-CPE is as follows:

Year	Faculty of Arts		Amount (Rs.)	Faculty of Science		Amount (Rs.)
	UG	PG		UG	PG	
2012-2013	11	10	3,97,879.00	49	29	1,38,800.00
2013-2014	21	05	1,69,077.00	24	17	2,16,000.00
2014-2015	16	00	1,98,000.00	36	31	4,43,000.00
		Total	7,64,956.00		Total	7,97,800.00

The summary of research projects sanctioned under UGC-BSR is as follows:

Year	Department	No. of Projects	Project Grant (Rs.)	Stipend (Rs.)
2014-2015	Botany	06	18,000.00	12,000.00
	Chemistry	06	18,000.00	12,000.00
	Electronic Science	06	18,000.00	12,000.00
	Geology	06	18,000.00	12,000.00
	Mathematics	06	18,000.00	12,000.00
	Physics	06	18,000.00	12,000.00
	Statistics	06	18,000.00	12,000.00
	Zoology	06	18,000.00	12,000.00

3.2.4 How does the various departments/units/staff of the institute interact in undertaking inter-disciplinary research? Cite examples of successful endeavors and challenges faced in organizing interdisciplinary research.

The college makes special efforts in case of interdisciplinary research needs. The RCC provides a platform for such interdisciplinary projects and helps in coordinating with different departments and teachers. There are a few examples where such an exercise was carried out.

- A Research project entitled “*Microcity*” was assigned to the college by Volkswagen, Germany. The focus of the project was on developing a *Microcity* with special reference to traffic issues in metro cities, women’s safety, physically challenged people’s mobility etc., Students and teachers of Economics, Psychology, Computers Science and Photography participated in the project. A short film and project report were prepared and handed over to Volkswagen. One of the major challenges faced was data collection from diverse sections of society like slums, women and physically challenged people. The other

challenge was qualitative analysis of data. Consistent interaction and meetings helped in effectively sorting out problems.

- Another example is of the project entitled, “Biochemical studies on the effects of *Sudarshan kriya* (rhythmic breathing technique) and *Mudra Pranayam* on human body”. In this project, monitoring of physical, mental, social and spiritual well being of a person is assessed through blood parameters and breathing pattern. Some of the difficulties encountered were collection of blood samples and inconsistency of some participants in practising the technique. Only genuinely practicing person’s samples were taken for study. Samples were taken only from people who practised both techniques regularly.
- Another interdisciplinary research undertaken was “Study of impact of tree canopy on air pollution using wireless sensor networks”. Release of oxygen and carbon-di-oxide by plants were measured in environmental chambers by using wireless sensor network (wireless node) at different locations. Selection of plants was done and readings were noted. There were problems with regard to configuring the wireless node. Detailed study and standardization of devices helped in configuring the devices.

3.2.5 How does the institution ensure optimal use of various equipment and research facilities of the institution by its staff and students?

- The college has established a ‘Central Instrumentation Facility’ where equipment and instruments are made available centrally.
- Every science department has prepared a time-table regarding availability of the instruments which are centrally located. One teacher-in-charge is given the responsibility for maintaining it and allotting time for its use by researchers from other departments.
- Apart from this there is also sharing of facilities/ instruments by teachers and students of other departments.

3.2.6 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facility? If ‘yes’ give details.

The college receives funding under various schemes from government funding agencies like UGC, DBT, DST and ISRO. The details of funding received and equipments/ facilities developed are as follows:

Sr. No	Funding Agency/ Scheme	Purpose	Amount (Rs.)
1.	UGC XI Plan Additional Grant	Instruments/ Equipment	25,00,000.00
2.	UGC XII Plan	Instruments/ Equipment	39,60,360.00
3.	UGC-CPE	Instruments/ Equipment	84,00,000.00
4.	UGC- B.Voc. Programme	Laboratory facilities/ Setting up of Workshop	50,00,000.00
5.	UGC-BSR Phase I	Up gradation of basic laboratory infrastructure	40,00,000.00
6.	UGC-BSR Phase II	Up gradation of basic laboratory infrastructure and Research projects to Students	48,00,000.00

7.	DST-FIST Scheme	Equipment- Teaching	32,00,000.00
		Equipment- Research	20,00,000.00
		Networking and Computational Facility	7,00,000.00
8.	DBT STAR College	Instruments/ Equipment	30,00,000.00
9.	ISRO	Equipment	6,26,000.00
10.	Volkswagen, Germany	Research project	2,00,000.00

3.2.7 Enumerate the support provided to the faculty in securing research funds from various funding agencies, industry and other organizations. Provide details of ongoing and completed projects and grants received during the last four years.

- The RCC disseminates information about funds available from various funding agencies through staff meetings. Necessary support is provided to teachers to prepare the proposal and submit it.
- Follow-up meetings are also held to ensure that teachers submit proposals.
- The RCC / IQAC also helps in purchases of equipment through research funding after the sanction. Details of ongoing and completed projects and grants received during the past five years are given below.

Minor/ Major Project	Name of the funding agency	Total Projects sanctioned	Total Grant (Rs.)		Total grant received till date
			Sanctioned	Received	
Minor projects (Completed)	UGC	16	1904500.00	1904500.00	1904500.00
	BCUD	26	5270000.00	5270000.00	5270000.00
Minor projects (Ongoing)	UGC	10	2023000.00	-----	-----
	BCUD	17	3077000.00	-----	-----
Major projects (Completed)	DST	02	4300000.00	4300000.00	4300000.00
	ISRO	01	500000.00	500000.00	500000.00
Major projects (Ongoing)	UGC	01	779000.00	-----	-----
	ISRO	01	1100000.00	-----	-----
	DAE-BRNS	01	2375250.00	-----	-----
Interdisciplinary projects (Ongoing)	UGC	02	498000.00	-----	-----
	BCUD, SPPU, Pune	01	200000.00	-----	-----
Industry sponsored (Completed)	Volkswagen	01	200000.00	200000.00	200000.00
Students' Research projects (Completed)	Arts: UGC-CPE	63	764956.00	764956.00	764956.00
	Science: UGC-CPE	186	797800.00	797800.00	797800.00
	UGC-BSR	48	240000.00	240000.00	240000.00

For Details, refer Annexure III (B).

3.3 Research Facilities

3.3.1 What are the research facilities available to the students and research scholars within the campus?

- Nine Research Centres (eight Science and one Arts) recognized by the University.
- Well-equipped research laboratories
- Subscription of national and international research journals in departmental libraries and Central library.
- Additional resources like “INFLIBNET” made available to the teachers and researchers.
- Central Instrumentation Facility
- Central Network Resource Centre / Computational Centres with 40 computers and unlimited Internet access for students.
- Statistical Package for Social Sciences (SPSS) and R software for research data analysis.

Special equipment:

Chemical Science: Atomic Absorption Spectrophotometer, High Performance Liquid Chromatography, Gas Chromatograph, Infrared Spectroscopy, UV-visible Spectrophotometer (Dual Beam) Rotary Vacuum Flash Evaporator, Geiger Muller Counting System and Chemical Refrigerator

Physical Science: Vacuum Coating unit, DSP Starter Kit, Compact Microwave and Micro Strip Kit, Rotating Polarizer, Spectrum Analyzer 1-3 GHz, FTIR, Digital Storage Oscilloscope, ELVIS- II, Transducers & Instrumentation Trainer, Nano Volt Meter, INTA Spectrometer, High Temperature Furnace, Spin-Coating unit, USB-based 8K Multi-Channel Analyzer (radiations) with data-acquisition + Radiation Monitor + Beta Reference set, Dip Coating unit, Humidity Control Chamber, Sensor Cassy – 2 with Cassy Lab – 2, Magnetic and Thermal Property Measurement set up, Solar Telescope, 9.25 inch Celestron with Go To Facility, Spin Coater, series 1000RPM 3000 for two inch substrate, High Temperature Tube Furnace with Vacuum Pump; MT-17P Maximum Temperature 1700 °c Vacuum Attainable- 0.001mmHg, High Temperature Magnetization Measurement System; Room Temperature to 6000C, Field 2.5KOe, ELVIS II + Circuit Design Bundle + Power Cord + Digital Electronic FPGA Board, Digital Storage Oscilloscope DSOX2002A; 70 MHz 2 Channel DSO + Free 20 MHz Waveform generator and 3 Digit DMM, Mixed Signal Oscilloscope MSO2002A; 70 MHZ2 + 8Channel MSO + Free Wave Form Generator- 20 MHz and 3 Digit DMM, RF Signal Generator; 3GHz Frequency Range, RF Analyzer with Vector Network Analyzer; 4GHz Frequency range + option 104 +110 +111+303

Life Science: Cooling Centrifuge, COD Assembly, High-Volume Sampler, Trinocular Polarizing Microscope with camera attachment and computer interface; LEICA Trinocular Research Microscope with Camera and Imaging System- CX21i, Phase Contrast Inverted Microscope with Camera, Stereo Zoom Microscope with CMOS USB Camera, Cooling Incubator CI Series, Micro Refrigerated Centrifuge and Gel Documentation System

3.3.2 What are the institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers especially in the new and emerging areas of research?

- The strategy of the college is to identify budding researchers amongst teachers and students and provide resources as well as seed money.
- A coordinator is appointed for each research centre who looks into the

requirements and routine affairs (submission of yearly progress report to the University for LIC / facilities to be added, etc.) of the research centre.

- The coordinator also recommends up-gradation of infrastructure and requirements in terms of special instruments/ equipment.
- An internal review committee conducts on-site visit and discusses requirements with the head of the department and research centre coordinator.
- Facilities are upgraded based on recommendations of Review Committee.

3.3.3 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facilities? If ‘yes’, what are the instruments / facilities created during the last four years?

- Yes. The college has received financial assistance under various schemes from UGC, DBT and DST. The details of funding are as follows:

Sr. No.	Funding Agency	Research Facilities
1	UGC- XI Additional grant	Student Microscopes, Desktop Computers, Handy Cam, D-Link NAS 1200 -05 Storage Device, IBM x3620 M4 Rack Servers, Portable Amplifiers and Speakers, Cooling Centrifuge Machine, KBr Press with Pellet machine, GM Counter, Signal Generators, Dimmerstat, Microcontroller 8051 kits, Digital Storage Oscilloscopes, Dual Trace CROs, Function Generators and Petrological Microscopes
2	Department of Science and Technology, Government of India, DST-FIST Scheme	Mixed Signal Oscilloscopes, Digital Storage Oscilloscopes, RF Signal generator, RF Analyzer with Vector Network Analyzer, ELVIS II, Micro-Refrigerated Centrifuge Machine, Binocular Microscopes, Trinocular Polarizing Microscopes with Camera and Computer interface, Trinocular Microscopes (Camera attachment and Image Processing), Cooling Incubator, Gel Documentation System, High Temperature Tube Furnace with Vacuum Pump, High Temperature Magnetization and Measurement System,
3	UGC-CPE Scheme	3kW/ 96 VDC Solar Grid feed PCU with 12 Solar Panels of 250W, Digital Storage Oscilloscopes, E-MPLS Lab for Education, Digital Planimeters, Mirror Brunton Compasses, Sensor Cassy – 2 with Cassy Lab – 2, LED Television Sets, DLP Projectors, Computers, Printers, Multifunctional Printers, Intel X3620 M3 Rack Servers, LAB View Academic Suite Software, SbRIO-9642 400 MHz Controller and 2M Gate FPGA, Multifunction DIO, AI, AO and 24 V DIO,
4	DBT STAR College Scheme	Lunt Solar Scope, USB-based 8K Multi-Channel Analyzer (radiations) with data-acquisition + Radiation Monitor + Beta Reference set, Dip Coating Unit, Rotary Vacuum Flash Evaporator, Geiger Muller Counting System, LYNX Binocular Microscopes

3.3.4 What are the research facilities made available to the students and research scholars outside the campus / other research laboratories?

UG and PG Students are assigned research projects/ dissertations. Some part of their dissertations (testing/ analysis) is carried out at University laboratories as well as other national laboratories. The college teachers take all necessary efforts and ensure that facilities needed for student projects are fulfilled. The facilities made available in other institutes/ university include FTIR, SEM, TEM, XRD, LCMS, GCMS, NMR, etc.

3.3.5 Provide details on the library/ information resource centre or any other facilities available specifically for the researchers.

The college is a member of N-LIST-INFLIBNET. The e-journals/ resources available are utilized by researchers. Apart from this, all PG departments subscribe to journals, which are made available to the researchers. A total of 67 journals are subscribed to by various departments.

3.3.6 What are the collaborative research facilities developed/ created by the research institutes in the college? For ex. laboratories, library, instruments, computers, new technology etc.

The DST-FIST and PICC laboratories of Chemical, Earth, Life and Physical Sciences were established through grants from UGC (innovative programme) and DST-FIST (Ist installment). The facilities include GC, HPLC, FTIR and UV-Vis –Spectrophotometers. This facility was extended to students of other colleges in Pune district. The projects were assigned to undergraduate science students and financial support in the form of fellowship/ stipend was provided by Tata Trust through Muktangan Science Exploratory, Pune.

3.4 Research Publications and Awards

3.4.1 Highlight the major research achievements of the staff and students in terms of-Patents obtained and filed (process and product), Original research contributing to product improvement, Research studies or surveys benefiting the community or improving the services, Research inputs contributing to new initiatives and social development

(A) Patents obtained- Product patent

Inventors /Teachers	Title	Date of filing and Registration No	Date of Award
(i) Shri. Shrikant Harne (ii) <i>Dr. Shankar Laware</i>	A culture medium composition	Date: 24/04/2009 Reg. No. 1553/MUM/2009	260402 29/08/2014 (Indian patent)

(B) Patents obtained- Process patent

Inventors	Title	Date of filing and Registration No	Date of Award
(i) Prof. Jayanta Pal (ii) <i>Dr. Dhanshree Godbole</i> (iii) Ms. Kiran Sharma	Methods of Staining proteins using ALTA	Date: 31/08/2005 Reg.No.11/216,947	US Patent 7833,797B2 16/11/2010
(i) Subas Muduli, Onkar Game, Vivek Dhas, <i>Ashish Yengantiwar</i> , Abhik Banerjee, and Satishchandra Ogale	Shape Preserving Chemical Transformation of Zno Mesostructures Into Anatase TiO ₂ Mesostructures for Optoelectronic Application	Date: 7/02/2013, Application number: 13/486509	US Patent number: 20130034491,

(C) Patents filed-Process patent

Inventors	Title	Date of filing and Registration No	Date of Publication
(i) <i>Dr. Shankar Laware</i> (ii) Smt. Parul Sharma	Enzyme conjugated metal oxide nanopartilces and its application in sugar production	Date: 07/08/2014 Reg. No. 2537/MUM/2014A	29/08/2014
(i) <i>Dr. Girish Pathade</i> (ii) Smt. Sugandha Salunke	Process for the Preservation of Starter Bacteria	Date: 08/06/2012 Reg. No. 1532/MUM/2009	-----
(i) Smt. Sugandha Salunke (ii) <i>Dr. Girish Pathade</i>	Method for controlled food fermentation and enhancing shelf life of fermented foods using selected starter bacteria	Date: 29/06/2009 Reg. No. 1533/MUM/2009	-----

(D) Patents filed-Product patent

Inventors	Title	Date of filing and Registration No	Date of Publication
(i) Shri. Shrikant Harne (ii) <i>Dr. Shankar Laware</i>	Topical Medication	Date: 24/04/2009 Reg. No. 1054/MUM/2009	-----
(i) Shri. Shrikant Harne (ii) <i>Dr. Shankar Laware</i>	Formulation for the Treatment of bacterial blight disease	Date: 21/07/2010 Reg. No. 2027/MUM/2010	02/11/2012

Research studies or surveys benefiting the community or improving the services

1.	Research Project, “Across the Wall in Wadarwadi” – A study of social networks in the survival of slum dwellers.
2.	A documentary film ‘struggles of the streets’ – A film about the life and struggles of hawkers belonging to Janeev Sangathana.
3.	Photo Documentation, “A day in the life of a worker” – describes the day in the life of a hawker selling vada pav outside Fergusson College
4.	Research Project “Street Economy of Ganesh Ustav”- It profiles the social composition of the informal sector workers It also tries to understand the survival strategies of the workers
5.	A slum survey: Mapping child care in the area of Kalakhadak slum/PCMC
6.	Behind the Counter: Globalization and Urban Youth from the Underclass
7.	Photo documentation of street economy on Fergusson College Road
8.	Waste, waste-pickers and their lives: Case studies of waste collectors
9.	Use and misuse of MMS on mobile phones among youth for spreading awareness about healthy sexuality.
10.	The working of CASH (Committee against Sexual Harassment) in Pune Colleges
11.	National Social Assistance Programme & Waste-pickers.
12.	Stress and Health problems among Female Performing Artists and Non Artists: A Comparative Study
13.	A Correlation Study of Existential Fulfillment, Depression and Suicidal Ideation Among Adults
14.	Efficacy of Pastel painting to Enhance Creativity in Middle School Children
15.	Suicidal Ideation, Social Support received and Satisfaction With Social Support Received in Homosexual and Heterosexual Individuals
16.	Psychosocial Correlates of Treatment Adherence among Post Surgery Bariatric Patients

3.4.2 Does the Institute publish or partner in publication of research journal(s)? If ‘yes’, indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database?

Yes, the college publishes research journal entitled, “SPEED: Journal of Research in Electronics” with ISSN 2349-8226. The journal is published in collaboration with SPEED.SPEED is Society for Promotion and Excellence in Electronics Discipline, which publishes research from all areas of ‘Advances in Electronics and its Interdisciplinary Applications’. It publishes research articles and reviews in all domains related to the field of Electronic Science and Technology.

Publication Policy of SPEED: One Volume with two Issues per year.

The composition of editorial board is as follows:

1	Prof. A.D. Shaligram, Editor-In-Chief	Professor and Head, Department of Electronic Science, SPPU, Pune
2	Dr. S.S. Sadistap	Scientist SEERI, Pilani
3	Dr. G.M. Naik	Head, Department of Electronics, Goa University, Goa.
4	Dr. A.M. Mahajan	Professor, North Maharashtra University, Jalgaon
5	Dr. S.J. Sharama	Head, Department of Electronics, Nagpur University, Nagpur

6	Dr. D.S.Dhote	Amravati University, Amravati
7	Dr. R.K.Kamat	Shivaji University, Kolhapur.
8	Dr. P.B.Buchade	Chairman, Board of Studies in Electronic Science, SPPU, Pune
9	Dr. N.M.Kulkarni	Head, Department of Electronic Science, Fergusson College, Pune

3.4.3 Give details of publications by the faculty and students:

Publication per faculty, Number of papers published by faculty and students in peer reviewed journals (national / international), Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.), Monographs, Chapter in Books, Books Edited, Books with ISBN/ISSN numbers with details of publishers, Citation Index, SNIP, SJR, Impact factor and h-index

Patents Awarded/published

Sr. No.	Name of the faculty	US Patents	Indian Patents	Total
1	Dr. Shankar Laware	-	03	03
2	Dr. Dhanashri Godbole	01	01	02
3	Dr. Girish Pathade	-	02	02
4	Dr. Ashish Yengantiwar	01	-	01
Total		02	06	08

Research paper publication by faculty

		Inter-national	National	Proceedings	Total Publications	Peer	Indexed	Impact factor	Citation	H- Index	SNIP/SJR
1	Dr. Sharmishtha Matkar	2	1	12	15	-	-	-	-	-	-
2	Dr. Pradeep Apte	-	-	4	4	-	-	-	-	-	-
3	Dr. Kalyani Kulkarni	-	-	4	4	-	-	-	-	-	-
4	Dr. Surekha Rongate	-	2	3	5	-	-	-	-	-	-
5	Smt. Lata Dhende	4	-	2	6	-	-	-	-	-	-
6	Shri. Vishal Gaikwad	-	-	3	3	-	-	-	-	-	-
7	Dr. Sujata Bamane	2	4	2	8	3	3	-	-	-	-
8	Dr. Arjun Jadhav	6	-	-	6	6	6	-	-	-	-
9	Dr. Madhuri Gokhale	9	6	-	15	2	2	-	-	-	-
10	Dr. Sanjeev Nalavade	-	-	4	4	-	-	-	-	-	-
11	Smt. Amruta Kulkarni	-	2	-	2	-	-	-	-	-	-
12	Shri. Santosh Dhotre	-	-	2	2	-	-	-	-	-	-
13	Shri. Jayram Gadekar	-	-	1	1	-	-	-	-	-	-
14	Dr. Siddharth Agale	1	4	-	5	1	1	2.11	-	-	-
15	Rekha Deshpande	1	1	-	2	-	-	-	-	-	-
16	Rupali Shinde	-	5	-	5	-	-	-	-	-	-

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17	Sanjay Koli	-	2	-	2	-	-	-	-	-	-
18	Anand Katikar	-	6	1	7	-	-	-	-	-	-
19	Nagnath Balte	-	-	1	1	-	-	-	-	-	-
20	Anil Sapkal	13	-	-	13	-	-	-	-	-	-
21	Smt. Arati Khatu	-	1	-	1	-	-	-	-	-	-
22	Kalpana Kanake	1	1	-	2	-	-	-	-	-	-
23	Dr. Deepti Gangavane	-	1	1	2	-	-	-	-	-	-
24	Smt. Radhika Jadhav	-	-	1	1	-	-	-	-	-	-
25	Dr. Shobhana Abhyankar	5	10	16	31	31	12	1.33	3	1	-
26	Dr. Megha Deuskar	2	4	11	17	17	3	1.06	5	2	-
27	Smt. Sheetal K. Ruikar	3	-	3	6	6	1	-	-	-	-
28	Dr. Anand S. Godse	3	-	1	4	4	2	-	6	1	2
29	Shri. Anil Sawarkar	1	-	7	8	8	-	-	-	-	-
30	Dr. Girish Pathade	10	3	-	13	4	4	4.75	46	3	3
31	Dr. Sonali Joshi	2	-	-	2	1	1	2.6	7	1	2
32	Dr. Dhanashri Godbole	-	1	-	1	1	1	0.396	27	3	2
33	Shri. Ravindra S. Patake	1	-	-	1	-	-	-	-	-	-
34	Smt. Nandini Kotharkar	2	-	-	2	2	2	1.46	6	1	1
35	Dr. Shampa Chakraborti	2	-	-	2	-	-	-	-	-	-
36	Dr. Manisha Dharmadhikari	1	1	-	2	-	-	-	-	-	-
37	Dr. Seema Sambrani	1	1	1	3	1	1	0.8	-	-	-
38	Dr. Anil More	17	-	2	19	15	15	11.09	16	2	-
39	Dr. Shankar Laware	22	3	4	29	22	22	20.423	72	5	4
40	Dr. Bharat Shinde	7	14	-	21	7	7	4.7	13	1	-
41	Dr. Meenakshi Mahajan	9	-	-	9	6	6	4.263	-	-	1
42	Dr. Jogita Pandkar	5	2	1	8	5	5	11.36	7	1	1
43	Dr. Rupali Seth	1	-	3	4	1	1	2.01	-	-	-
44	Ms. Swarupa Chowdhury	1	-	2	3	1	1	2.01	-	-	-
45	Shri. Shridhar Vhankate	-	1	-	1	1	-	-	-	-	-
46	Shri. Shankar Pawar	1	-	1	2	1	1	1.89	-	-	-
47	Shri. Narayan Firke	1	-	-	1	-	-	-	-	-	-
48	Shri. Sushil Dhanmane	2	-	-	2	2	2	8.71	6	1	1
49	Dr. Meenakshi Suresh	1	-	-	1	2	2	-	-	-	-
50	Smt. Ujwala Patil	2	-	-	2	-	-	1.99	-	-	-
51	Shri. Anil Markandeya	4	-	-	4	4	4	2.89	9	2	-
52	Dr. Parbati Bandopadhyay	1	-	-	1	1	1	2.068	5	1	1
53	Shri. Nitin Ganjave	-	2	-	2	2	2	1.296	-	-	2
54	Dr. Kiran Fulzele	-	1	-	1	-	-	1	-	-	-
55	Dr. Rohitkumar Gore	5	-	-	5	5	5	27.408	66	3	4
56	Smt. Gauri Shelar	1	-	-	1	-	1	0.852	5	1	1
57	Dr. Sonalika Pawar	2	-	-	2	1	2	7.672	12	2	2

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58	Dr. Anupama Nevrekar	7	-	-	7	5	5	13.553	38	4	4
59	Dr. Poonam Deshpande	8	1	-	9	9	9	13.706	91	6	9
60	Smt. Shubhangi Page	1	-	-	1	-	-	-	-	-	-
61	Smt. Kavita Khobragade	3	-	-	3	2	2	3.557	-	-	-
62	Smt. Smita Bhanap	1	-	-	1	1	1	2.82	-	-	-
63	Smt. Sonali Kulkarni	2	-	4	6	1	1	0.621	-	-	-
64	Smt. Deepali Dhainje	2	1	9	12	-	-	-	-	-	-
65	Smt. Kalyani Gaikwad	-	-	2	2	-	-	-	-	-	-
66	Smt. Arati Nimgaonkar	1	-	-	1	-	-	0.489	-	-	-
67	Smt. Vrushali Limaye	-	-	1	1	-	-	-	-	-	-
68	Smt. Purva Ghatpande	1	-	-	1	-	-	-	-	-	-
69	Shri. Jayant Khedkar	-	-	2	2	-	-	-	-	-	-
70	Dr. Nitin Kulkarni	11	-	9	20	11	11	8.294	17	2	-
71	Shri. Anand Bhide	-	-	2	2	-	-	-	-	-	-
72	Shri. Sunil Bhagwat	-	-	1	1	-	-	-	-	-	-
73	Smt. Shubhangi Katti	2	-	6	8	2	2	1.56	-	-	-
74	Smt. Amruta Kathe	-	-	1	1	-	-	-	-	-	-
75	Dr. Madhukar Zambare	-	-	4	4	-	-	-	2	1	-
76	Shri. Vijay Labade	2	3	16	21	5	5	7.44	10	2	-
77	Shri. Sandip Dhavale	-	1	5	6	1	1	-	-	-	-
78	Smt. Kalpana Kulkarni	1	1	5	7	-	-	1.56	-	-	-
79	Smt. Yogita Khandge	-	-	2	2	-	-	-	-	-	-
80	Smt. Panchsheela Kamble	-	-	1	1	-	-	-	-	-	-
81	Dr. Ashish Mane	23	-	1	24	23	23	1.538	93	6	13
82	Ms. Rupali Gaikwad	-	-	1	1	-	-	-	-	-	-
83	Dr. Ravindrasinh Pardeshi	3	-	3	6	3	3	1.261	-	-	-
84	Dr. Tanuja Marathe	1	3	1	5	5	3	-	-	-	-
85	Dr. Pradipkumar Sarkar	9	3	1	13	13	12	7.952	13	2	2
86	Dr. Shyam Mude	9	6	-	15	18	16	3.6418	29	4	4
87	Shri. Devdatta Upasani	-	-	2	2	1	-	-	2	1	1
88	Shri. Anil Soman	1	-	-	1	1	1	3.476	16	2	-
89	Dr. Suniti Gore	1	2	-	3	3	3	2.65	-	-	-
90	Dr. Shivaji Waghmare	3	1	-	4	4	2	1.58	14	1	-
91	Sayali Darvekar (Kalekar)	1	-	-	1	1	-	-	-	-	-
92	Dr. Raka Dabhade	-	-	5	5	-	-	-	26	3	-
93	Dr. Kishor Sonawane	2	-	2	4	2	2	1.4	-	-	-
94	Dr. Kailash Sapnar	7	-	1	8	7	7	7.54	35	3	5
95	Dr. Nandkumar Mandlik	4	-	2	6	4	3	4.6	2	1	4
96	Dr. Ashish Yengantiwar	6	-	1	7	6	6	48.98	99	6	6
97	Dr. Haribhau Gholap	6	-	-	6	6	6	15.67	25	3	6
98	Dr. F. M. D. Attar	3	-	2	5	3	3	1.922	7	1	1



99	Dr. Ramchandra Narhe	2	-	-	2	3	3	4.164	30	11	1
100	Dr. Sunil Kulkarni	-	-	2	2	-	-	-	-	-	-
101	Smt. Pallavi C. Dixit	-	-	1	1	-	-	-	-	-	-
102	Dr. Alka V. Deshmukh	3	-	1	4	4	4	5.446	32	3	3
103	Dr. Sandip Dhobale	6	-	-	6	6	6	11.28	32	3	6
104	Shri. Subhash Shende	-	-	1	1	-	-	-	-	-	-
105	Smt. Nileema N. Bhalerao	1	-	-	1	1	1	-	-	-	-
106	Smt. Deepa S. Kulkarni	1	-	-	1	1	1	-	-	-	-
107	Dr. Kishor Pendharkar	-	3	3	6	3	3	-	-	-	-
108	Dr. Navnath Chandanshive	4	1	-	5	4	4	3.17	23	3	-
109	Dr. Vishakha Korad	6	-	5	11	5	5	-	-	-	-
110	Dr. Anukriti Nigam	-	1	2	3	1	1	-	-	-	-
111	Dr. Sanjay Kumbhar	1	1	2	4	1	-	-	-	-	-
112	Dr. Sameer Terdalkar	1	-	2	3	1	-	2.9	3	1	-
113	Dr. Pramod Phirke	1	2	1	4	3	-	-	-	-	-
114	Shri. Ravindra Shinde	-	-	1	1	-	-	-	-	-	-
	Total	301	109	206	616	333	271	308.9088	950	100	92

Research Paper publications by students

Sr. No.	Name of Student	Papers			Total publications	Impact Factor	Total Citation	h-Index	SNIP /SJR
		Inter -national	National	Proceedings					
1	Dipen Parande	1	-	-	1	-	2	1	-
2	Ashis Nerlekar	-	4	-	4	-	-	-	1
3	Monica Lalchan	-	-	1	1	-	-	-	-
4	Snehalata Patil	1	-	-	1	1.02	-	-	-
5	Ayesha Pathan	1	-	-	1	2.02	-	-	-
6	Kaustubh D. Kulkarni	1	-	1	1	-	-	-	-
7	Sayali Sahastrabudhe	-	-	1	1	-	-	-	-
8	Krithika Padmanabhan	-	-	2	2	-	-	-	-
9	Shruti Lahoti	-	-	1	1	-	-	-	-
10	Aparna Ramchandran	-	-	1	1	-	-	-	-
11	Dalvi Naik P. A.	1	-	-	1	-	-	-	-
12	Parth Sarthi Das	-	-	1	1	-	-	-	-
13	DVLK Manasa	-	-	1	1	-	-	-	-
14	M. A. Natu	-	-	2	2	-	-	-	-
15	Kirti Vaish	-	-	1	1	-	-	-	-
16	M. P. Zadikar	-	-	1	1	-	-	-	-
17	Pawar Bhushan	-	-	1	1	-	-	-	-
18	Komal Deokar	-	-	1	1	-	-	-	-
19	Das Ritika	-	-	1	1	-	-	-	-

Books published by faculty

Sr. No.	Name of Faculty	Books/Chapters in Book			Total
		Inter - national	National	Book Articles	
1.	Dr. Sharmishtha Matkar	1	3	-	4
2.	Dr. Pradeep Apte	-	2	-	2
3.	Dr. Surekha Rongate	-	1	-	1
4.	Dr. Arjun Jadhav	-	-	6	6
5.	Smt. Amruta Kulkarni	-	1	2	3
6.	Shri. Santosh Dhotre	-	1	-	1
7.	Shri. Jayram Gadekar	-	-	2	2
8.	Dr. Madhuri Mandlik	-	-	1	1
9.	Shri. Santosh M. Ghuge	-	-	2	2
10.	Shri. Prakash Pawar	-	-	1	
11.	Smt. Arati Khatu	-	-	1	1
12.	Dr. Siddharth Agale	-	1	-	1
13.	Smt. Nanada Kamble	-	-	2	2
14.	Dr. Rekha Deshpande	-	--	1	1
15.	Smt. Rupali Shinde	-	-	1	1
16.	Dr. Sanjay Koli	-	-	2	2
17.	Dr. Anand Katikar	-	-	2	2
18.	Dr. Anil Sapkal	-	9	2	11
19.	Dr. Deepti Gangavane	-	-	3	3
20.	Dr. Shobhana Abhyankar	1	1	-	2
21.	Dr. Megha Deuskar	1	-	-	1
22.	Smt. Sunanda Kate	-	-	1	1
23.	Dr. Anil More	-	4	-	4
24.	Dr. Shankar Laware	4	2	-	6
25.	Dr. Bharat Shinde	2	4	1	7
26.	Dr. Minakshi Mahajan	8	-	-	8
27.	Mr. S. M. Vhankate	-	5	-	5
28.	Dr. R. S. KondeDeshmukh	-	4	-	4
29.	Dr. Rohitkumar Gore	1	-	-	1
30.	Ms. Gauri Shelar	-	1	-	1
31.	Smt. Kavita Khobragade	-	15	-	15
32.	Smt. Rasika Kulkarni	-	1	-	1
33.	Smt. Deepali Dhainje	-	8	-	8
34.	Smt. T. Sree Lalitha	-	5	-	5
35.	Smt. Lochana Mahajan (Jawale)	-	3	-	3
36.	Dr. Ravindrasinh Pardeshi	-	1	-	1
37.	Dr. Pradipkumar Sarkar	-	3	-	3
38.	Shri. Deodutaa Upasani	-	1	-	1
39.	Dr. Shivaji Waghmare	-	1	-	1
40.	Dr. Sandip Dhobale	-	-	1	1
41.	Dr. Nandkaumar Madlik	-	-	4	4
42.	Shri. Subhash Shende	-	1	-	1
43.	Dr. Kishor Pendharkar	-	-	4	4
44.	Dr. Vishakha Korad	2	-	-	2
45.	Dr. Anukruti Nigam	-	-	2	2
46.	Dr. Sameer Terdalkar	-	-	2	2
47.	Nanasaheb Phatangare	-	14	-	14
	Total	20	92	43	154

For Details, refer Annexure III (D) and Annexure III (E).

3.4.4 Provide details (if any) of research awards received by the faculty, recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally and incentives given to faculty for receiving state, national and international recognitions for research contributions.

Research Awards/ Recognitions received by the faculty

Name of Teacher	Title of Award/ Honor	Level	Constituted by
Smt. Ketaki Vaidya (Botany)	FIRST PRIZE in “AVISHKAR 2009”	State	State Government of Maharashtra Inter University State Level Research Festival in Teacher Guiding student category in Agriculture and Animal husbandry section held at Solapur University Solapur Jan.2010
Dr. Anil More (Botany)	<i>Leading Scientists of the World-2010</i>	International	International Biographical Centre, Cambridge, England.(2010)
Dr. Shankar Laware (Botany)	FIRST PRIZE in “AVISHKAR 2010”	State	Inter University State Level Research Festival in Teacher category (Agri. And Animal husbandry) MUHS, Nashik Jan. 2011
Dr. Shankar Laware (Botany)	Indian Patent No. 260402	National	Government of India A culture medium composition
Dr. Bharat.P. Shinde (Botany)	FIRST PRIZE in “AVISHKAR 2009”	State	State Government of Maharashtra Inter University State Level Research Festival in Teacher Guiding student category in Agriculture and Animal husbandry section held at Solapur University Solapur Jan.2010
Dr. Madhukar Zambare (Electronic Science)	<i>Best Project Guide Award</i>	University	Indian Physics Association (IPA)
Smt. Shubhangi Katti (Electronic Science)	<i>Xplore Automation 2012 Award</i>	International	Phoenix Contact Automation Company Journal (Germany)
Smt. Kalpana Kulkarni (Electronic Science)	<i>Best Product Design Award</i>	National	National Seminar on Physics of Transducers and Sensors, Baramati.
Dr. Madhuri Gokhale (English)	Scholarship to represent India at Globe theatre, London	International	English Speaking Union of London
Smt. Amruta Kulkarni (German)	<i>Three months Scholarship by (DAAD) German Academic Exchange Service under the GIP Program for an academic Visit (for better academic</i>	International level	GIP (Partner universities: Pune and Goettingen)

	Exposure as well as undertaking research) to the university of Goettingen, Germany		
Dr. Raka Dabhade (Physics)	R. Chandrashekhar Award for <i>Best Project Guide</i>	District	IPA Pune Chapter
Dr. Shobhana Abhyankar (Psychology)	<i>Dr. Manju Bhat Memorial Award</i> for distinguished and Innovative Work in Research, at International Conference in Psychology, Ahmedabad	International	Indian Academy of Applied Psychology

3.5 Consultancy

3.5.1 Give details of the systems and strategies for establishing institute-industry interface?

The college has bridged the gap between theory and practice, by establishing Industry-Institute Interaction Cell as a part of quality improvement strategy.

This has evolved as a platform for establishing linkages with the industry through increased interactions with industry personnel.

The cell plans for annual activities and implements them as per the availability of Industry experts. Many activities like interactive sessions, panel discussions and guest lectures have been conducted by this cell, largely by the departments of Life Sciences and Computer Science.

3.5.2 What is the stated policy of the institution to promote consultancy? How is the available expertise advocated and publicized?

The policy for consultancy as stated in GBR-60/11.10.2008 is as follows:

- (a) The policy is divided into two parts: remunerative and non-remunerative.
- (b) 30% of the net consultancy fees received by any employee of DES (in whatever form) shall be deposited with DES.
- (c) The responsibility of payment of any taxes (income/service etc) shall rest entirely with the person/s working as consultants.
- (d) The permission shall be granted subject to the condition that the work as consultant shall in no way affect the work at DES
- (e) Such employee of DES shall make himself/herself available for any duty / responsibility at DES, whenever required at anytime, even at the cost of giving up consultancy.

Faculty from some of the departments like Geology, Biotechnology, Environmental Science, Psychology, Economics, Computer Science, IQAC Coordinator, are invited as consultants. However, the college does not formally advocate or publicize this.

3.5.3 How does the institution encourage the staff to utilize their expertise and available facilities for consultancy services?

- The college recognizes and acknowledges the staff for their consultancy work in staff common meeting. The college rewards by felicitating the staff member on the Founders’ Day programme and by providing monetary benefit to the concerned staff member.
- A special mention of these achievements is also made in the college magazine “*Maadhyam*”.

3.5.4 List the broad areas and major consultancy services provided by the institution and the revenue generated during the last four years.

The broad areas of remunerative consultancy services are as follows:

Department	Nature of Consultancy	Revenue Generated
Psychology	Aptitude testing and Counselling	Rs. 82,500.00

The broad areas of non-remunerative consultancy services are as follows:

Department/ Faculty	Nature of Consultancy
Dr.Ravindrasinh Pardeshi, Principal	<ul style="list-style-type: none"> • Member, Working Group on Higher Education, Twelfth Five Year Plan (2012-2017)- Planning Commission. • Expert Committee Member for Department of Biotechnology (Ministry of Science and Technology, Government of India) for STAR College Scheme • Expert Committee Member (Scheme of Construction of Women’s Hostel), UGC-SERO, Hyderabad. • Expert Committee Member for granting fresh Autonomous Status to St. Teresa’s College, Ernakulum (Mahatma Gandhi University, Kottayam, Kerala) • Member, Monitoring Committee, University Grants Commission, for College with Potential for Excellence or College of Excellence. • Assessor, National Assessment and Accreditation Council (NAAC), Bangalore • Member, International Students’ Centre, Savitribai Phule Pune University, Pune. • Member, Blended B.Sc. Programme, SPPU in collaboration with Melbourne University, Australia. • Member, India-Australia, Student Mobility Programme, Mumbai University – • Member, Organizing Committee for International Geological Congress 2020 organised by Geological Survey of India, Nagpur.

Political Science	<p>Sharing expertise/ Visiting Faculty with:</p> <ul style="list-style-type: none"> • Yashwantrao Chavan Academy of Development Administration (YASHADA), Pune • Maharashtra State Intelligence Academy, Pune • State Intelligence Academy, Pune • Police Academy, Pune • Babasaheb Ambedkar Research & Training Institute (BARTI), Pune
Economics	<p>Advisory / Expert Member:</p> <ul style="list-style-type: none"> • Water Resources Planning Commission • Memorandum Committee of Government of Maharashtra for 14th Finance Commission, Government of India • Drafting the report of 'High level committee on Balanced Regional Development' (Kelkar Committee, 2013) • Expert Group on State Finance Commissions: 13th Finance Commission Government of India • Third State Finance Commission, Government of Maharashtra, India
Geology	<ul style="list-style-type: none"> • Geological studies (Koyna-Warana)- part of studies of the project of MOES for investigation of Reservoir Triggered SEISMICITY (RTS). • Hydro-Carbon industry (field studies) in collaboration with Association of Petroleum Geologists- field training for ONGC officers for understanding relation between Deccan Traps and oil/ petroleum reservoirs. • Geophysical investigations for understanding subsurface geology and demarcation of aquifers.
Psychology	<ul style="list-style-type: none"> • Stress-management, personal counselling • Consultancy was provided to FLOW, Social Sciences Research Organizations for research and training in the field of art based therapy. • Consultancy was provided to Artsphere, an organization that uses Art based psychotherapy, for developing curriculum that integrates counseling skills, dance therapy and drum therapy.
Computer Science	<ul style="list-style-type: none"> • Linux laboratory setting in different colleges. • Guest lectures for the use of 'WEKA' software.
IQAC	<ul style="list-style-type: none"> • Writing and presenting proposals to funding agencies (UGC and DBT) • Expert Member in IQAC of other Colleges
Photography	<ul style="list-style-type: none"> • Forensic Photography for Crime Investigation Department (CID), Government of Maharashtra – creating crime scenes, photography of crime sciences, developing photographic evidences at the crime scenes and digitizing the evidences in photoshop.
Environmental Science	<p>Member, Solid Waste Management Programme and Solid Waste Project, Third Party Audit Committee of Pune Municipal Corporation, Pune.</p>

3.5.5 What is the policy of the institution in sharing the income generated through consultancy (staff involved: Institution) and its use for institutional development?

- Governing Body of our parent organization- DES, decides the policy of sharing the income generated through consultancy and its use for institutional development.

- Necessary resolutions are made as per the nature and need of the consultancy services.

3.6 Extension Activities and Institutional Social Responsibility (ISR)

3.6.1 How does the institution promote institution-neighbourhood-community network and student engagement, contributing to good citizenship, service orientation and holistic development of students?

- The college is committed to holistic and integrated education that aims at making students intellectually sharp, socially responsible, culturally creative, emotionally resilient and physically strong. The college has a well established “Social Outreach and Enabling Centre” (SOEC).
- The SOEC works with neighborhood slums in the areas of citizenship education, health awareness and women’s issues fostering reciprocal learning where both the students and the recipients of service benefit from the activities. SOEC also works with waste pickers’ organization and conducts awareness programmes like waste segregations drives, use of eco-friendly Ganesh immersion, reducing plastics in our daily lives etc. Poster exhibitions and street plays on the issue of environment, displacement, gender equality and sexual harassment have been conducted in various colleges.
- Students from Astroclub participate in “Science Education Initiative” which is dedicated to improve quality of Science and Mathematics education across the country. Students are trained for teaching Science and Mathematics and then they visit schools for underprivileged to teach Science and Mathematics.
- Important days like – Human Rights Day (December 10) in which themes like Women’s rights, Child rights, Dalit rights, Environmental Rights and Rights of people with disabilities are taken; International Peace Day (September 21), Hiroshima Day (August 6 – 9), Holocaust Day (January 27), Gandhi Punyatithi (January 30), Independence Day (August 15) – Celebrating Indian Democracy, Louis Braille Day (January 4) and World Disability Day (December 3) These activities create awareness amongst students about issues of human rights, importance of the Indian Constitution, rights and duties of Indian citizens, and problems of vulnerable sections of society

3.6.2 What is the Institutional mechanism to track students’ involvement in various social movements / activities which promote citizenship roles?

Creating awareness about one’s rights and duties, working to uphold the human rights of the vulnerable sections of the society, protecting the environment, instilling patriotism are ways in which we promote

citizenship education. Observation of Human Rights Day, celebrating Indian democracy, creating a zero waste model on campus, identifying children out of school and encouraging them to attend school, working with children with disabilities and all other activities of SOEC. This is monitored by student coordinators appointed for each of these activities and the teacher in charge. The student volunteers also maintain a diary in which they make entries of the work done. A term end report is submitted by student coordinators.

3.6.3 How does the institution solicit stakeholder perception on the overall performance and quality of the institution?

Feedback from students is taken which indicates institutional performance. It helps in assessing the quality of academic inputs for all programmes. Apart from this, students are offered an open platform to express their views on all the activities of the college. This has helped in planning and reorganizing the activities from time to time.

3.6.4 How does the institution plan and organize its extension and outreach programmes? Providing the budgetary details for last four years, list the major extension and outreach programmes and their impact on the overall development of students.

- The college has a well established SOEC, which handles the extension and outreach programmes. An orientation programme is organized in the month of July every year. SOEC works with 15 civil society organizations. Every student volunteer is allocated one of the organizations. A student is expected to work for four hours per week throughout the year.
- The scope of our work includes human rights issues, environmental issues, women's issues, disabilities issues, educational work with children from underprivileged communities and de-addiction.
- The nature of our work includes conducting various types of surveys (need assessment surveys, impact assessment surveys, child labour survey, health survey, pension survey), organizing awareness campaigns, collection drives (clothes, books, toys and e-waste), conducting art craft workshops, assisting in administrative work, helping with school annual days and other functions.

List of major programmes:

1. Conducting citizen surveys on waste management practices of commercial establishments on Fergusson College road, J.M. road and Karve road, need assessment surveys of housing societies, organizing waste collection drives, doing case studies, advocacy work and participating in eco friendly Ganesh Visarjan with *KKPKP/SwaCH*, a waste pickers' organization dealing with solid waste management.
2. Helping children of construction workers learn through creative methods of Doorstep Schools, a learning centre for underprivileged children.

3. Conducting surveys on issues like sexual harassment, use of mobile phones for spreading awareness, making audio visual material for gender equality programmes and working for crèches in urban slum with *Tathapi*, a women's organization working on issues of women and health.
4. Teaching children of sex workers art, craft, dance, music and organizing picnics and educational visits for them at *Phulwa–Vanchit Vikas* an organization working with urban poor, hawkers, sex workers and their children.
5. Conducting workshops on issues of health, hygiene nutrition and body literacy for high school girls at Hutatma Rajguru Girls' High School in neighbourhood slum.
6. Helping children with learning disabilities at *Ankur Vidyamandir* an inclusive school on college campus.
7. Conducting impact studies, organizing a campaign against corporal punishment and other workshops at *Forbes Marshall – Department of Social Initiatives*.
8. Working with deaf and mute children by teaching them art, craft, dance and English and helping during school functions at *Badhir Mook Shikshan Kendra*, a school for deaf and mute children.
9. Working in the area of de-addiction by conducting group sessions to deal with stress and aggression, celebration of festivals like Rakshabandhan & Christmas and community development program at *Santulan*, a de-addiction centre.
10. Conducting energy, water, air and waste audit of Fergusson College, promoting eco-friendly practices on campus and organizing campaigns like 'Say No to plastic' and e-waste awareness and collection drive as a part of Green Campus Initiative.
11. Working with the blind students of the college by arranging for recorded notes, filling different types of forms, arranging for writers during exams and encouraging participation in college activities under the programme called *Saathi*.
12. Working with children from the underprivileged community by teaching them art, craft, music, dance, story-telling and drama. This programme was conducted at Sant Ramdas School, a PMC primary school in the neighbourhood slum.
13. Working with developmentally challenged children by helping teachers in daily classroom activities and assisting in the school annual function, Independence Day celebration etc. with *Prism Foundation*, an institute for children with special needs.
14. Working for Pune's homeless with *CYDA* (Centre for Youth Development and Activities).
15. Enabling underprivileged children learn using effective pedagogic methods through schools project & learning centres at *Aakanksha Foundation*, an educational project under *Thermax Social Initiative*.

3.6.5 How does the institution promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International agencies?

At the beginning of each academic year, the Programme Officer(s) of NSS unit and NCC Officers brief the students about the aims and objectives of their activities and subsequently students are enrolled for these units. Academic and career benefits are also discussed with the students who wish to participate in these activities.

- Financial assistance/ allowances are given to the students and teachers participating in the extension activities. Leave of absence is also granted to them for such types of activities.
- **NSS:** The college has a very pro active NSS unit with a membership of 250 students. Various programmes and special camps are organized by NSS unit with the focus on instilling social sensitivity and leadership qualities amongst students. The summary of programmes is as follows:
 - a) *Sanskar Varg*: These are classes to instill good values and habits which are conducted every day for underprivileged children. Activities like haemogram testing, health and hygiene awareness sessions are undertaken mainly for girl students.
 - b) Annual Village Camps: These are held at nearby villages of ‘Andeshe’ and ‘Mogarwadi’. During the camps students do tree plantation and make continuous contour trenches for water conservation in these villages.
 - c) ‘*Varsa*’: Under this programme nearby forts namely Tikona and Rohida were cleaned and the students helped the villagers in rebuilding the forts.
 - d) ‘*Amrut Varsha*’ is conducted every year. Under this programme more than 400 students from the college participate in helping the farmers in rice sowing.
 - e) Disaster Management Programme: This is organized in collaboration with National Disaster Rescue Force (NDRF). The students visit NDRF camps and learn the techniques of rescue operations.
- The work of the students organizing and participating in these activities is recognized by mentioning their contribution in the college magazine, by award of certificates/ prizes and by appreciation in the faculty meetings, Founders’ Day function of DES and on Independence and Republic Day.
- **NCC:** The NCC has two units – army and naval wing.
 - a) Army Wing NCC: Various camps are organized by these units like Republic Day camp, army attachment camp, trekking camps, national integration camps. Thal sainik camps, mountaineering camps, snow skiing camps, cycle / motor-cycle expeditions, annual training camps, scuba diving camps, camel safari camps, service selection boards. (SSB Camps), leadership camps, advanced leadership camps, personality development camps and arranging various rallies.

- b) Naval Wing NCC: Republic Day camp, trekking camps, national integration camps, nau sainik camps, ship attachment camps, mountaineering camps, snow skiing camps, cycle / motor-cycle expeditions, annual training camps, scuba diving camps, sailing camps, basic leadership camps, advanced leadership camps, personality development camps and arranging various rallies.

3.6.6 Give details on social surveys, research or extension work (if any) undertaken by the college to ensure social justice and empower students from under-privileged and vulnerable sections of society?

The issues taken up for the projects and surveys deal with the lives of the underprivileged sections of society. Also students belonging to vulnerable sections of society are involved in all the activities. Some of the initiatives in this regard are as follows:

	Type	Description
1.	Slum Research Project	“Across the wall in Wadarwadi” A study of social networks in the survival of slum dwellers.
2.	Documentary film on Hawkers	‘Struggles of the Streets’ A film about the life and struggles of hawkers belonging to <i>Janeev Sangathana</i> .
3.	Photo Documentation of life of informal sector worker	A day in the life of a worker describes the day in the life of a hawker selling vada pav outside Fergusson College
4.	Research Project on migrant workers	Street Economy of Ganesh Ustav: It profiles the social composition of the informal sector workers It also tries to understand the survival strategies of the workers.
5.	Slum survey	Mapping child care in the area of Kalakhadak slum/PCMC
6.	Behind the Counter – stories of young urban youth from the underclass	Globalization and Urban Youth from the Underclass
7.	Photo documentation of informal work	Street economy on Fergusson College Road
8.	Case studies of waste collectors	Waste, waste-pickers and their lives
9.	Survey	Use and misuse of mobile phones among youth for spreading awareness about healthy sexuality.
10.	Survey	The working of CASH in Pune Colleges
11.	Research Project on waste pickers and social security scheme	Impact of National Social Assistance Programme on the lives of waste-pickers.

3.6.7 Reflecting on objectives and expected outcomes of the extension activities organized by the institution, comment on how they complement students’ academic learning experience and specify the values and skills inculcated.

- Social Outreach is an integral part of college educational programme which inculcates a sense of social responsibility amongst students. These programme engage students in meaningful social service that meets community needs. The college and SOEC take several steps towards making class room learning more effective, enduring and

meaningful. Working with civil society helps link class room learning to the real world outside.

- Students also develop several skills like organizational skills – from planning to execution to evaluation; interpersonal skills – team work, cooperation; communication skills – (oral, written, report writing), and others (posters, street plays) and research skills.
- Universal and enduring values like democracy, peace, justice, tolerance, compassion, equality, pluralism and co-operation are inculcated through these programmes.

3.6.8 How does the institution ensure the involvement of the community in its outreach activities and contribute to the community development? Detail on the initiatives of the institution that encourage community participation in its activities?

- The college believes in working *with* the people and not *for* the people. People’s participation is ensured at all levels of planning, implementation and follow-up of our activities. Programmes are worked out keeping in mind people’s needs, concerns and aspirations. What programmes will be undertaken and how they will be implemented is decided democratically along with the community. Care is taken not to impose our ideas and methods on the community.
- The college SOEC works with two neighbourhood schools for the underprivileged children. An anemia detection camp was held for all the girls in the school. A poster exhibition on the ill effects of corporal punishment was organised for teachers and parents. Apart from this, sessions on sexuality and safety were also conducted. This was done in tandem with the community.
- In collaboration with Tathapi, an NGO working on issues of women and health the students participate in the “*I-Soch*” campaign which is about making cities safe for women.
- Through the medium of street plays and posters the college reaches out to the wider community on issues of sex selective abortions, violence against women, environmental awareness and water shortage.
- As a part of ‘Garbage Segregation Drive’, the SOEC undertook a survey of commercial establishments on Fergusson College Road, Karve Road and JM Road.
- Every year students participate in “*Eco friendly Ganesh Visarjan*” to spread awareness about water pollution caused by immersing idol in river water. This is done in collaboration with NGOs and PMC.

3.6.9 Give details on the constructive relationships forged (if any) with other institutions of the locality for working on various outreach and extension activities.

- Neighborhood communities and other social organizations help the college in creating awareness among the students regarding social problems.
- There is participation of students in campaigns on various health, gender, sexual abuse and environmental issues.
- These types of joint ventures have helped the college/ students in understanding the needs of the society in general and created awareness among students in particular.
- Some of the outcomes of such constructive relationships are as follows:

Name of Collaborating Institution/ NGO/ School(s)/ Others	Type of Activity
KKPKP/SwaCH (Waste Pickers' organization dealing with solid waste management)	Conducting various types of surveys, waste collection drive, case studies, advocacy work and participation in eco- friendly Ganesh Visarjan.
Doorstep Schools (Learning centre for underprivileged children)	Helping children learn using creative teaching methods and book and clothes collection drives.
Tathapi (A women's organization working on issues of women and health)	Small research projects, workshops, making short documentaries and working in crèches.
Vanchit Vikas – Phulwa (working with urban poor, hawkers, sex workers & their children)	Teaching children art, craft, dance, music and organizing picnics and educational visits
Hutatma Rajguru Girls High School in neighbourhood slum	Conducting workshops on issues of health, hygiene nutrition and body literacy for high school girls and Art and craft activities
Ankur Vidyamandir (an inclusive school)	Assisting teachers in day to day activities and helping during various school functions.
Forbes Marshall – Department of Social Initiatives	Small research projects, impact studies; Campaign against corporal punishment and organizing workshops for children.
Badhir Mook Shikshan Kendra (a school for deaf and mute children)	Teaching art, craft, dance and English and helping during school functions.
Santulan de addiction centre	Conducting group sessions to deal with stress & aggression, Celebration of festivals like <i>Rakshabandhan</i> and <i>Christmas</i> and Community development program.
Green Campus Initiative	Conducting energy, water, air and waste audit of Fergusson College, promoting eco- friendly practices on campus and organizing campaigns 'Say No to plastic' and E –Waste awareness and collection drive.
Saathi (integrating the blind students into college mainstream)	Arranging for recorded notes, filling different forms, arranging for writers during exams and encouraging participation in college activities.

Name of Collaborating Institution/ NGO/ School(s)/ Others	Type of Activity
Sant Ramdas PMC primary school in neighbourhood slum	Teaching children art, craft, music, dance, story – telling and drama.
Prism Foundation (an institute for children with special needs)	Helping teachers in daily classroom activities and Assisting in school annual function, Independence Day celebration etc.
CYDA (Centre for Youth Development & Activities):	Pune4Change: Working with Pune’s homeless and Traffic Watch: Improve Pune’s traffic situation.
Aakanksha Foundation (an educational project):	Enabling underprivileged children learn using effective pedagogic methods through schools project & learning centres.
Pune Police, Pune	General Discipline during Ganesh Festival and other festivals as per requirement of Commanding Officers of Army and Navy Units
Pune Vignaharta Nyas, Pune	Assisting during Ganesh Festivals as Special Police Officers

3.6.10. Give details of awards received by the institution for extension activities and/contributions to the social/community development during the last four years.

The college was awarded *Louis Braille Memorial Award-2012* for remarkable contribution towards organizing special programmes to facilitate and support the education of visually challenged students.

3.7 Collaboration

3.7.1 How does the institution collaborate and interact with research laboratories, institutes and industry for research activities. Cite examples and benefits accrued of the initiatives – collaborative research, staff exchange, sharing facilities and equipment, research scholarships etc.

All science departments, Economics and Psychology departments have developed linkages with institutes, laboratories and industries. Over a period of years these efforts have helped in student projects especially for post graduate students. Students get an opportunity to work with industries and work on ‘live projects’ in subjects like computer science. Students of Sociology and volunteers of SOEC get benefit from NGOs like *Tathapi, Aalochna, KKPKP/ SWaCH* with regard to survey based projects and internships.

3.7.2 Provide details on the MoUs/collaborative arrangements (if any) with institutions of national importance/other universities/ industries/corporate (Corporate entities) etc. and how they have contributed to the development of the institution.

The college has entered into collaborative arrangements with 16 institutions and have signed formal MOUs with six. These collaborative programmes have benefited the college in the following ways.

1	Curriculum development	The experience gained through interaction and feedback from academic, research and outreach activities helped in identifying the new emerging and job oriented areas, which could be included while updating the curriculum.
2	Internship	Students of Psychology and of professional courses like M.Sc. (Computer Science), M.C.A. and M.Tech. gain hands-on-experience of real life situations through internship in various organizations / industrial establishments.
3	On-the-job training	Students of vocational courses in Biotechnology and Electronic Equipment Maintenance undergo on job training in research institutes and industries related to respective subjects. This provides an opportunity for the students to know more about advanced laboratory techniques.
4	Faculty exchange and development	Through linkages, the university and other institutes have helped in arranging faculty exchange and academic development. The faculty exchange involves guest lectures on specialized topics and visits to different institutes.
5	Research	Joint research programmes with research institutes has helped the faculty and students in researching diverse areas like art-based therapy for stress management and also areas like nanotechnology, embedded systems, food and medical biotechnology, conservation of terrestrial and coastal biodiversity, natural resources and environmental monitoring. Students and faculty are able to access sophisticated equipments and on line journals.
6	Consultancy	The collaborations with local bodies, NGOs and other institutes have helped us in identifying our strengths in various areas. These are instrumental in enhancing competency and expertise in faculty and students.
7	Extension	Associations with various GOs, CSOs and NGOs helped in strengthening our network with the community and also fulfilling our social responsibilities.
8	Publication	Joint research publications with universities and research institutions have enhanced the academic standard of faculty and students. This has resulted in a wider academic recognition to the college.
9	Student Placement	The number of industries visiting the college for campus interviews has increased due to linkages with industries. Large number of students have benefited in getting placement offers through On-the-job training and internship programmes. It is a matter of pride to mention that M.C.A., M.Tech. and M.Sc. (Computer Science) students have secured 100% placement.

3.7.3 Give details (if any) on the industry-institution-community interactions that have contributed to the establishment / creation / up-gradation of academic facilities, student and staff support, infrastructure facilities of the institution viz. laboratories / library/ new technology /placement services etc.

The college has a well established ‘Industry-Institute Interaction Cell’. This Cell acts as a facilitator between the students and industries. It also provides a platform for student-industry interaction to identify the requirements of industry, placements and changing needs of the industry.

- This has helped the students to know and understand their prospectus in various industries.
- Some of the activities conducted by this Cell are as follows:
 - (a) A training workshop on resume writing and GDPA was arranged from 3rd to 5th March 2011 for the students of all the departments.
 - (b) Industry Academia Summit was organized in January-February 2012. Panel discussions were organized to bridge the gap between industry and academia. The panel consisted of industrial experts, academicians and ex-students.
 - (c) A seminar on ‘career for science graduates in IT industry’ was organized for all T.Y.B.Sc. Students on 8th January 2013 by WIPRO Technologies.
 - (d) Corner Stone Series of lectures was started by Centre for Advanced studies at I²IT Pune in association with NASSCOM in February-March 2013. The lectures were delivered by experts from IBM, INTEL, EMC, and LUPIN on ‘Future trends in technology’ for the final year students.
 - (e) Two panel discussions were organized on entrepreneurship. One from IT industry and the other from BT industry.
Apart from this the cell organizes workshops on personality development, CV writing, group discussions and personal interviews.

3.7.4 Highlighting the names of eminent scientists/participants who contributed to the events, provide details of national and international conferences organized by the college during the last four years.

Year	Name of the conference/seminar	Eminent scientists/participants	Institute
2010-2011	UGC-sponsored National Seminar on “Health and Wellbeing: Contemporary Issues and Perspectives” (Psychology)	Prof. Sagar Sharma	Former Professor and Head Department of Psychology and Dean, Faculty of Arts and Social Sciences Himachal Pradesh University, Shimla
		Prof. K.B.Kumar	Dean and Head of Clinical Psychology, Sweekar Academy, Secunderabad
		Prof. Kiran Kumar	Department of Psychology, University of Mysore
		Dr. Matthijs Cornelissen	Director, Indian Psychology Institute, Pondicherry
		Smt. Mukta Puntambekar-Avachat	Director, Muktangan De-addiction Centre, Pune
		Prof. Dr. Rybak Christopher	Bradley University USA

		Dr. Jagdish Hiremath	Cardiac Surgeon Ruby hall Nursing Home , Pune
2011-2012	National Seminar on “Frontiers in Physics V” (Physics)	Padmashree Prof. Govind Swarup	Ex-Dir., ORT, Bangalore, NCRA, GMRT, Pune
		Prof. Naina Shah	University of Cincinnati, USA
		Prof. Joanna Rankin	University of Vermont, USA
		Andreas Wahner	Dir. Institute for Energy and Climate Research, Germany.
		Prof. Martin Schultz	Julich Research Centre, Germany.
2012-2013	UGC-Sponsored National Seminar on “Developing Human Potential: Issues, Perspectives and Challenges” (Psychology)	Prof. Indira Jai Prakash	Gerontologists, and former Professor of Psychology, Bangalore University
		Prof. S.W. Deshpande	Behavioural Scientist
		Prof. C.G.Deshpande	Former Head, Department of Applied Psychology, Mumbai University
		Prof. B.R.Shejwal	Professor and Head, Department of Psychology, SPPU, Pune.
		Dr. B.J.Prashantham	Director, CCC, Vellore
		Dr. B.D.Desai	Founder, Academy of Personality Development, Pune
		Prof. Medha Kumthekar	Former Head, PG Department of Psychology, SNDT University, Pune Campus, Pune
		Prof. Anuradha Sovani	Head, Dept of Applied Psychology, Mumbai University, Mumbai.
		Dr. (Capt) C. M. Chitale	Department of Management Sciences, SPPU, Pune
		Dr. Shashank Shah	Laparoscopic Bariatric Surgeon, Director of Labaro-Obeso Centre
		Shri Sudhir Phatak	HRD Professional
		Dr. George Varghese	Chairman & CEO, V SOLVE India Pvt Ltd
		Shri Dilip Ranjekar	CEO, Azim Premji Foundation
	National Seminar on “Frontiers in Physics VI” (Physics)	Padma Vibhushan & Padmashree, Prof. Jayant Narlikar	Founder Director, IUCAA, Pune.
		Dr. Maria Anna Czekaj	University of Barcelona, Spain
		Dr. Sanghmitra Deb	Argonne National Lab. USA
		Dr. Sunil Mukhi	IISER, Pune.
	National Conference on “Biodiversity Monitoring and Research: Current Status and Future	Dr. Arvind Untawale	Retired Scientist ‘F’, National Institute of Oceanography, Goa
		Prof. M. Krishnan	Department of Environmental Biotechnology, Bharatidasan University, Trichirapalli

	Needs” (Zoology)	Dr. Mandar Datar	Scientist “B” Agharakar Research Institute, Pune
		Dr. Sachin Puneekar	SERB- DST Fast Track Young Scientist, Agharkar Research Institute, Pune
		Prof. Ganesh Wankhede	Professor and Head, Sant Gadagebaba Amravati University, Amravati.
	Two Day State Level Conference on “Autonomy to Colleges and Role of IQAC”	Prof. Vasudev Gade	Vice Chancellor, SPPU, Pune
		Dr. Sunil Shetye	Joint Director, Higher Education, Pune Region
		Prof. Pandit Vidyasagar	Vice Chancellor, SRTM University, Nanded
		Dr. Anil Sahasrabuddhe	Director, COEP, Pune
		Dr. Hemant Abhyankar	Director, VIT, Pune
		Fr. Frazer Mascarenhas	Principal, St. Xavier’s College, Mumbai.
		Dr. Hrishikesh Soman	Principal, Symbiosis College of Arts and Commerce, Pune
	Smt. Madhuchhanda Banerjee	St. Mira’s College, Pune	
2013-2014	National Conference on “Emerging Trends in Computer Science and Computer Applications” (Computer Science)	Dr. Vijay Bhatkar	Chairman, ETH Research Laboratory, Pune
		Dr. Abhijat Vichare	Chairman, American Computing Machinery, Pune Chapter
		Dr. Shrinivas Londhe	Professor, Vishwakarma Institute of Technology, Pune.
		Shri. Sanjay Katkar	Chief Technical Officer Quick Heal Technologies, Pune
		Dr. Sanjay Shinde	DCP, Cyber Crime and EOW, Pune
	National Workshop on “Recent Trends in Applied Statistics: An Interdisciplinary Approach” (Statistics)	Dr. Shailaja Deshmukh	Head, Department of Statistics, Savitribai Phule Pune University, Pune
		Dr. Ramnathan	Department of Statistics, SPPU, Pune
		Dr. A. Shanbogh	Department of Statistics, Sardar Patel University, Vallabhvidyanagar, Anand, Gujarat
	National Workshop on “Emerging Trends in Stratigraphy” (Geology)	Dr. Vivek Kale	Head, Geospatial, Kalyani Global Engineering Pvt., Ltd. Pune
		Dr. L. K. Kshirsagar	Principal, MIT College of Engineering, Pune
		Dr. Satish Patel	M.S. University of Baroda, Vadodara
		Dr. Anand Kale	Consultant, Bharat Petroresources Ltd., Mumbai.
	International Conference on “Recent Developments in Stratigraphy” (Geology)	Prof. K. S. Valdiya	Former Vice Chancellor, Kumaon University
		Prof. D. K. Pandey	Department of Geology, University of Rajasthan, Jaipur.
		Prof. Kanchan Pande	Head, Department of Earth Science, Indian Institute of Technology, Pawai, Mumbai

		Prof. S. J. Sangode	Head, Department of Geology, SPPU, Pune
		Prof. R. Venkatachalapathy	Department of Geology, Periyar University, Salem
		Prof. Subhasish Das	Department of Geology and Geophysics, Indian Institute of Technology Kharagpur
		Prof. P. Kundal	Department of Geology, Rashtra Sant Tukadoji Maharaj Nagpur University, Nagpur.
	International Exhibition on ‘Mathematics That You Can Touch’ (Mathematics)	Prof. Sarjerao Nimse	Vice Chancellor, University of Lucknow , Lucknow
		Mr. Michael Ott	Deputy Consulate General, Federal Republic of Germany, Mumbai
		Ms. Alicia Padros	Head, Educational Services, Goethe Institute Max Muller Bhavan, New Delhi
	National Conference on “Modern Analytical Techniques in Microbiology” (Microbiology)	Dr. P. Gunasekaran	Vice Chancellor, Thiruvalluvar University, Senior Professor, Department of Genetics, Vellore
		Dr. A. Dayanand	Professor, Department of Microbiology, Gulbarga University, Gulbarga
		Dr. Sharad Kale	Professor, Homibhaba National Institute, BARC, Mumbai
		Dr. Shailesh Dave	Professor and Head, Department of Microbiology, Gujarat University, Ahmadabad.
	National Seminar on “Frontiers in Physics VII”	Padmashree Prof. Pramod Kale	Former Director ISRO Satellite Centre, Ahmedabad
		Dr. Dimitrios Psaltis	University of Arizona, USA
		Prof. Anwesh Mazumdar	Homibhaba Centre for Science Education TIFR, Mumbai.
		Prof. Mohan Apte	University of Mumbai.
2014-2015	National Conference on “Advances in Electronics and its Interdisciplinary Applications” (Electronic Science)	Prof. Raghunath Shevgaonkar	Director, IIT, Delhi
		Prof. Rajkamal	Former Vice Chancellor, Devi Ahilya University, Indore
		Prof. Mahesh Jivani	Department of Electronic Science, Saurashtra University, Rajkot.
		Shri. Abhay Patwardhan	General manager, Mahindra Reva, Bangalore
		Dr. Shashikant Sadistap	CEERI, Pilani, Rajasthan
	National Conference on “Advances in Chemical Sciences with Special reference to Molecular Spectroscopy,	Padmavibhushan Dr. Raghunath Mashelkar	Former Director General, CSIR
		Prof. M. S. Shingare	Emeritus Scientist, DR. BAMU, Aurangabad.
		Dr. Rafique Islam	Scientist, Wadia Institute of Himalyan Geology, Dehradun
		Dr. S. Radhakrishnan	Director, Research Development and Innovation,

Material Science and Organic Electronics” (Chemistry)		MIT, Pune
	Dr. Satish Ogale	Scientist, NCL, Pune
	Dr. Bhaskar Sathe	Dr. BAMU, Aurangabad.
National Conference on “Ancient Science and Technology: Retrospection and Aspirations	Dr. Abhay Firodia	Chairman, Forbes Motors, Bhandarkar Oriental Research Institute
	Padmashree Dr. Vijay Bhatkar	Chairman, ETH Research Laboratory, Pune
	Prof. V.S. Shinde	Vice Chancellor, Deccan College, Pune
	Dr. Ulrich Berk	Scientist, Germany
	Dr. Deepak Ranade	Head, Department of Neurology, Sanjeevan Hospital and Medical College
	Dr. K.K. Kshirsagar	Former Director, Bee Research Institute, Pune
International Conference on “Regional Trade Agreement and Preferential Trade Agreement” (Economics)	Padmabhushan Dr. Vijay Kelkar	Chairman, National Institute of Public Finance and Policy, New Delhi, Government of India
	Shri. Bhushan Karandikar	Former Deputy Commissioner, Sales Tax, Government of Maharashtra
	Dr. V.K.Pande	Former Director, Indian Institute of Foreign Trade, New Delhi, Government of India
	Dr. Neelambar Hatti	Emeritus professor, Lund University, Sweden.
	Dr. Panya Putthasupa	Prince of Songkla University, Thailand
	Dr. Neeraj Hatekar	Director, Department of Economics, Mumbai University, Mumbai.
	Dr. Rohini Sahni	Professor, Department of Economics, SPPU, Pune
	Dr. Sanjeev Nandwani	India Zonal Development Commissioner, SEZ’s, Government of India

3.7.5 How many of the linkages/collaborations have actually resulted in formal MoUs and agreements? List out the activities and beneficiaries and cite examples (if any) of the established linkages that enhanced and/or facilitated -Curriculum development/enrichment; Internship/ On-the-job training; Summer placement; Faculty exchange and professional development ; Research; Consultancy; Extension; Publication; Student Placement; Twinning programmes; Introduction of new courses; Student exchange; Any other

The college and DES have made efforts to establish linkages with university, national institutes, industries and international universities for academic and research exchange. Details of such type of linkages are as follows:

Sr. No.	Department	Name of Institute / University / Department / Agency / Industry	Nature of Linkage
1	Biotechnology	Glasgow Caledonian University, Ireland-UK	Faculty Exchange – Academic Programme
		National Agricultural and Food Analysis and Research Institute, Pune	Academic
		Emcure Pharmaceuticals	Research and Student Placements
		Lupin Biotech	Student Placements
		Serum Institute	Research and Placement
		Reliance Life Sciences	Student Placements
		Wockhardt Pharmaceuticals	Research and Consultancy
		Tata Consultancy Services, Pune	Student Placements
		Cognizant	Student Placements
Syntel	Student Placements		
2	Chemistry	Serum Institute, Pune	PG Research Projects
		Lupin, Pune	PG Research Projects
		Cipla, Pune	PG Research Projects
		National Chemical Laboratories, Pune	PG Research Projects
		Agharkar Research Institute, Pune	PG Research Projects
		Armed Forces Medical College, Pune	PG Research Projects
		National Centre for Cell Sciences, Pune	PG Research Projects
3	Computer Science	Quick Heal Technologies	Academic Enhancement
		Wipro Technologies Ltd.	Placement Enrich Programmes
		Volkswagen, Germany	Survey Based Research Project
4	Economics	Volkswagen India	Industrial Survey and Research Analysis
		Gokhale Institute of Politics and Economics, Deemed University, Pune	PG Research
		International Food and Policy Research Institute, Pune	Research
5	Electronic Science	Collaboration with Science and technology park through its incubated company Kshiti Clean Tech Pvt. Ltd. for a project on development of communication systems for automatic meter reading and advanced metering infrastructure for Indian electrical distribution system, environment using EMCO meters.	Academic and Research
		Department of Electronic Science Savitribai Phule Pune University, Pune Society for Promotion for Excellence in Electronics Discipline (SPEED)	Academic / Extension
6	Environmental Science	Aqua Dam	PG Research
		The Energy and Resource Institute (TERI) Delhi.	Academic
		Indian Institute of Tropical Meteorology (IITM), Pune	Research (M.Sc. II projects)

Sr. No.	Department	Name of Institute / University / Department / Agency / Industry	Nature of Linkage
		Pugmarks	Academic and Filed Activities
		Tree Public (Pune Based NGO)	Social Network
		Shashwat (Pune Based NGO)	Field based activates and awareness programs
		Jan Aadhar Sevabhavei Sanstha Pune. (recycling Initiative)	P.G Research, Field activates and Social network
		World Wildlife Fund (WWF), Pune	Field based activates and Social network
		Petroleum Conservation and Research Association, Mumbai.	Awareness programs, guest lectures etc.
		Pune Municipal Corporation, Pune.	Awareness program, preparation of Environmental Status Report (ESR).
		Sustainability Initiatives	Academic
7	French	Collaboration with LaTilloye College in Compiagne, France.	Exchange programme for 2015.
		Lycee St Pol Morlaix, France	Exchange Programme for 2015
8	Geology	American Association of Petroleum Geologists	AAPG FCP Chapter Professional Linkage
		Geological Survey of India	Academic Linkage
		Groundwater Surveys and Development Agency	Academic Linkage
		Advanced Centre for Groundwater Development and Management	PG Projects
		Department of Geology, Savitribai Phule Pune University, Pune	Dissertation for students and visiting faculty
		Agharkar Research Institute, Pune	Dissertation for students and visiting faculty
		Department of Geology, Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur.	Research
		National Institute of Oceanography, Goa	Internship for students
9	Mathematics	Oil and Natural Gas Corporation	Internship for students
		Indira Gandhi National Open University, Delhi	Consultancy, Book-writing
		Bhaskaracharya Pratishthana	Teacher and Student Training Programs
10	Microbiology	AASHAI Softwares, Pune	Placement
		National Chemical Laboratory, Pune	PG Projects
		Agharkar Research Institute, Pune	PG Projects
		National Centre for Cell Sciences, Pune	PG Projects
		Vasantdada Sugar Institute, Manjri, Pune	PG Projects
		Department of Zoology, Savitribai Phule Pune University	PG Projects
		National Institute of Virology, Pune	PG Projects
National Agriculture and Food Analysis and Research Institute, Pune	PG Projects		

Sr. No.	Department	Name of Institute / University / Department / Agency / Industry	Nature of Linkage
11	Physics	Savitribai Phule Pune University, Pune	PG projects
		National Chemical Laboratory, Pune	PG projects
		Inter University Centre for Astronomy and Astrophysics, Pune	UG/PG projects
		Centre for Material and Electronic Technology, Pune	PG projects
		Defence Institute of Armament And Technology, Pune	PG projects
		Indian Institute of Tropical Meteorology, Pune	PG projects
		The National Centre for Radio Astrophysics	UG / PG projects
12	Psychology	Indian Psychology Institute, Pondicherry	Research and workshop on Indian Psychology
		Connecting- NGO	Internship
		Santulan- NGO	Internship
		Muktangan De-addiction Centre	Internship
		Volkswagen, Germany (India)	Research
		FLOW: Social Sciences Research Organization, Pune	Research
		Dr. Hemant Chandorkar, Psychiatrist	UG Observation Internship Programme (OIP)
		DES English Medium School, Pune	Counseling
13	Sociology	Aalochana Documentation Centre for Women	Gender related lectures and poster exhibition
		Open Space	Workshops and lectures
		Tathapi	Research Projects and Workshop
		KKPKP / SWACH (Waste Pickers Organisation)	Lectures, case studies and surveys
		Kalpavriksha	Lectures and internship
14	Zoology	Bharati Vidya Bhavan, Pune Kendra, Pune, Muktangan Exploratory Science Centre, Pune	Workshop for School Teachers
		Government of India, Zoological Survey of India, Pune	Academic

Formal MOU's and Agreements with Parent Organization- Deccan Education Society (DES), Pune

Sr. No.	Name of Institute / University / Department / Agency / Industry	Level	Purpose
1.	Glasgow Caledonian University, Scotland, UK	International	Student Exchange and Masters programme
2.	Elon University, USA	International	<ul style="list-style-type: none"> Joint Research Activities, Teacher training, Joint Conferences/ Seminars, Academic meetings in the areas of Management Education,

Sr. No.	Name of Institute / University / Department / Agency / Industry	Level	Purpose
			International law and International Relations, American Studies etc.
3.	Penn State University, Harrisburg Campus, USA	International	<ul style="list-style-type: none"> Student Exchange (Physics/ Electronic Science) for higher studies in Electrical Engineering and Electrical Technology.

Formal MOUs and Agreements with the college/ Departments

Sr. No.	Name of Institute / University / Department / Agency / Industry	Level	Department	Purpose
1	(a) Science and Technology Park (STP), Pune, through its incubated Company Kshiti Cleantech Pvt. Ltd., (b) EMCO Lyd., Meters Division (c) Department of Electronic Science, Savitribai Phule Pune University, Pune	National	Electronic Science	Development of Communication System for Automatic Meter Reading (AMR) and Advanced Metering Infrastructure (AMI) for Indian Electrical Distribution System Environment using EMCO Meters
2	Inter-University Centre for Astronomy and Astrophysics, Pune (IUCAA)	National	Physics	<ul style="list-style-type: none"> INAAD Programme (IUCAA node for Astronomy and Astrophysics) UG and PG Projects in Astronomy
3	Zoological Survey of India (ZSI), Pune (Government of India, Ministry of Environment and Forest)	National	Zoology	Up keep of Museum

3.7.6 Detail on the systemic efforts of the institution in planning, establishing and implementing the initiatives of the linkages/ collaborations.

The college organizes programmes to facilitate interactions with academicians/ scientists and experts from the industry in formal as well as informal ways. Formal meetings are organized especially in case of international linkages. Visits are organized and tentative areas/ subjects for collaborations are discussed.



CRITERION IV : INFRASTRUCTURE AND LEARNING RESOURCES

4.1 Physical Facilities

4.1.1 What is the policy of the Institution for creation and enhancement of infrastructure that facilitate effective teaching and learning?

The Policy of the college regarding infrastructure is consistent with the needs that arise as a result of academic development. The policy is as follows:

- To meet the need of upgrading/ creating infrastructure to support world class quality education and promote good teaching-learning environment.
- Allocating maximum resources for infrastructure development.
- Optimum utilization of resources to carry out curricular, co-curricular, extra-curricular and research activities.
- Fund-raising from alumni and other resources like government funding agencies under various schemes.

4.1.2 Detail the facilities available for

a) Curricular and co-curricular activities – classrooms, technology enabled learning spaces, seminar halls, tutorial spaces, laboratories, botanical garden, Animal house, specialized facilities and equipment for teaching, learning and research etc.

The college campus has sufficient space for all academic, administrative, co-curricular and extra-curricular activities. New facilities have been created and the old ones have been renovated fully.

- The college has a sufficient number of classrooms (56) which are very well ventilated with spacious seating arrangements. In many of these classrooms, conventional as well as advanced teaching aids can be used.
- The Tutorial building houses Philosophy, English, Marathi and Hindi departments and classrooms. The Psychology department has a separate building, classroom and laboratory.
- All science departments have separate buildings and laboratories for general as well as research programmes. There are 52 laboratories for General programmes and 15 laboratories for research. Laboratories for research in Animal Cell Culture and Plant Tissue Culture are housed in the Department of Biotechnology. All science laboratories are ICT supported. The Department of Animation laboratories have high end facilities like workstations with 2D and 3D animation.
- Special research facilities include Central Instrumentation laboratory (Chemical Sciences, Life and Earth Sciences), which has high end

research equipment like Atomic Absorption Spectrophotometer, High Performance Liquid Chromatography, Gas Chromatograph, Infrared Spectroscopy and UV-visible Spectrophotometer.

- Other teaching-learning facilities include Language Laboratory, Computer laboratories and Computational Centres/ IT Zones with net connectivity for students.
- There are 13 audio-visual halls and 01 Amphi-theatre (Heritage Building) and recently 01 open air Amphi-theatre has been constructed. “Kimaya” and “Lower Recreation Hall” are separate spaces marked for extra-curricular activities.
- The campus also has 01 botanical garden with 430 plant varieties. There is an “Animal House” in the department of Zoology, which was used only for storage of preserved specimens. Currently the space is used as a student research laboratory.
- Weather Station is housed in the new academic complex building which has Weather Link Software 6.0.3. It records temperature, rainfall, wind speed and direction and humidity.
- Geology, Physics and Zoology Departments have museums with a rich collection of specimens and scientific models.

b) Extra-curricular activities – sports, outdoor and indoor games, gymnasium, auditorium, NSS, NCC, cultural activities, public speaking, communication skills development, yoga, health and hygiene etc.

College has played a proactive role and supportive role in grooming students. Specific spaces have been earmarked for extra-curricular activities and made available to students.

- Sports equipment has been added; venture and combat sports have been propagated and welcomed by students enthusiastically. Facilities in both the gymnasiums have been upgraded.

1	Large Play Grounds for all outdoor games <ul style="list-style-type: none"> • Goal posts for Handball, Football, Hockey and Netball) • Cricket (cricket wicket- 33X3m), Football, Volley Ball (40X40m) Hockey and Kabaddi (pawta soil, 20X20m) 	02
2	Badminton Hall	01
3	Lawn Tennis Courts	07
4	Basket Ball Courts (Synthetic)	02
5	Volley Ball Court	01
6	Boxing Hall	01
7	Judo Hall	01
8	Table Tennis Hall	01

- Gymnasium for Boys and Girls
There is a separate gymnasium for boys and girls. The details of equipment available in the gymnasium are as follows:

- Equipment for Boys: Eight station multi gym, adjustable bench, dumbbell stand, twister, incline and decline bench press, incline leg press, bar belt, abdominal board, flat bench press, hyperextension, spine bikes, weight plate stand etc.,
- Equipment for Girls: four station multi gym, twister double, hyper extension, cycle, walker, rubber dumbbells, rubber mats and multi H. P. machine
- Auditoria

	Seating Capacity	Dimensions
Amphi Theatre	600	400 sq.mt (Ground Floor) 226 sq.mt (First Floor)
Open Air Amphi Theater	50	350 sq.mt
Navalmal Firodia Auditorium	180	227 sq.mt

4.1.3 How does the institution plan and ensure that the available infrastructure is in line with its academic growth and is optimally utilized? Give specific examples of the facilities developed/augmented and the amount spent during the last four years (Enclose the Master Plan of the Institution / campus and indicate the existing physical infrastructure and the future planned expansions if any).

DES has a “Planning and Development Board” and an “Estate Committee” to help the college in planning future renovations, addition/ up gradation of infrastructure and future expansion. Inputs from the departments and “Time Table Committee” of the college are taken from time to time to ensure that the available infrastructure is optimally used. Some of the major renovations, up-gradations/ additions in the infrastructure carried out in the past five years are as follows:

Sr. No.	Item	Amount Spent (Rs.)
1.	Electrification of Department of Geology	4,50,000.00
2.	Roof renovation of Geology	6,70,930.00
3.	Electrification of Bai Jerbai Wadia Library	1,50,000.00
4.	Renovation of roof of library and Main Building (Administrative Block)	6,98,000.00
5.	Renovation of electrical fittings and wiring	5,09,913.00
6.	Roof repairing and renovation of department of Physics	3,00,000.00
7.	Roof repairing and renovation of Tutorial building	9,00,000.00
8.	Roof repairing and renovation of Ladies' Recreation room	7,50,000.00
9.	Renovation of Amphi-Theatre	1,50,00,000.00
10.	Renovation of Birla Block of Girls' Hostel	7,00,000.00
11.	Renovation of Agarkar Block of Girls' Hostel	58,00,000.00
12.	Solar Panels at Girls' Hostel	1,90,000.00
13.	Renovation of toilets of Boys' Hostel	7,50,000.00
14.	Roof renovation of Zoology and Chemistry Laboratories/ Departments	17,85,232.00
15.	Renovations of all toilets	6,35,000.00
16.	LED Street Lamps in Campus	2,00,000.00

17.	Grey Water Treatment and Recycling Plant at Girls' Hostel	4,75,000.00
18.	Synthetic basket ball Court	16,00,000.00
19.	New Open Air Amphi-Theatre	10,00,000.00
20.	Office Furniture (Complete)- Separate Self Financing Office	7,67,000.00
21.	Furniture for language laboratory	4,50,000.00
22.	Furniture for computational centre for students	2,80,000.00
23.	Working tables, granite tops and closed shelves in Botany laboratories	3,99,016.00
24.	Laboratory tables and cupboards for storage, granite table tops in research laboratory of Zoology	4,91,957.00
25.	Working tables in Zoology laboratory	5,23,420.00
26.	Glass showcases in Mathematics	1,77,497.00
27.	Wall mounted movable glass boards in Mathematics Classrooms	2,41,500.00
28.	On-line UPS system in Mathematics department	1,30,200.00
29.	Working tables and shelves in Chemistry laboratory	5,20,285.00
30.	Closed shelves and working table in Biochemistry laboratory	1,36,274.00
31.	Working tables and furniture in post graduate Electronic Science laboratory	5,26,113.00
32.	Glass and wooden showcases in Geology museum	5,23,950.00
33.	Working tables and furniture in Geology laboratories	5,55,776.00
34.	Working tables in undergraduate Physics laboratory	5,26,912.00
35.	Electrification in Physics Museum and laboratories	5,43,039.00
36.	Computer Tables in Statistics laboratory	3,28,729.00
37.	Laboratory partitions, electrification, electrical fitments and LAN in Statistics laboratory	3,71,696.00
38.	Power supply and UPS system in Statistics laboratory	1,69,850.00
	Total Expenditure	4,02,27,289.00

- Fergusson College is a bi-faculty (Arts and Science) college. The total number of students in the college (Undergraduate and Post graduate) is more than 5000. The academic session for Arts begins at 7.30am in the morning, while for Science it begins at 10.00am. There is a central time table committee that prepares the central time table for both the faculties. Proper care is taken to avoid overlaps in the timings of lectures and practicals. Science laboratories are made available for practicals with different time slots for undergraduate and post graduate students. There are separate research laboratories, which are utilized by research scholars.
- In view of the various academic programmes/courses running simultaneously, the infrastructure (classrooms and laboratories) is utilized throughout the day from 7.30 am to 5.50 pm.
- The college started the undergraduate programme in Animation in 2012 and the special degree B.Voc. (Media and Communication and Digital Art and Animation) in the current academic year, i.e 2014-15. State of Art laboratories with high end facilities like computers (i-7), Workstations and software are made available for the students. Morning shifts (from 8.30 am to 12.30 pm are utilized by students of Animation and from 12.00 noon, the laboratories are available for B.Voc. Students. For students of Media and

Communication, Photography laboratory is made available from 10.30 am to 1.30 pm, the afternoon session (2.30 pm to 5.30 pm) is allotted to general B.Sc. students (vocational) while the evening slot (6.30pm to 8.30pm) is utilized by students of Certificate course in Photography.

- Some departments like Biotechnology, Computer Science and Electronic Science have a practice of allowing students and teachers to work late hours in the evening as well as on holidays/ during vacations.
- Some classrooms and laboratories are utilized till late in the evening for autonomous certificate courses/ programmes conducted by our parent organization, DES.
- Equipment/ Instrument: **Detailed list is provided in Annexure IV(A).**

4.1.4 How does the institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?

The college has a significant population of students with blindness (approximately 35 students/year). The “Social Outreach and Enabling Centre” caters to the requirements of these students. This centre started helping them with recording of notes before the exams. The Bai Jerbai Wadia Library has Braille books for visually challenged students. A separate space has been marked for their computational needs. There are 05 computers equipped with software for visually challenged students – ‘JAWS-13”. Audio recorders and play back systems has also been provided. Looking at our efforts, the college has been awarded Louis Braille Award by Louis Braille *Andha Apang Kalyan Sanstha*, Pune.

4.1.5 Give details on the residential facility and various provisions available within them: Hostel Facility, Recreational facilities, gymnasium, yoga centre, etc. Computer facility including access to internet in hostel, facilities for medical emergencies, Library facility in the hostels, Internet and Wi-Fi facility, Recreational facility-common room with audio-visual equipments, Available residential facility for the staff and occupancy, constant supply of safe drinking water and Security.

The college has boys’ and girls’ hostels with all basic amenities. However, access to internet in girls’ hostel has been prohibited. There is a visiting doctor at the girls’ hostel, which has basic medical facilities. Apart from this, there is also a counseling cell for girl students/hostelites. Library facility, television sets, tea vending machines etc., are available at the girls’ hostel. Limited residential facility is available for teaching and non teaching staff of the college. The details of facilities are as follows:

- Details of Hostel facility:

1	Boys Hostel- 4 Blocks Number of Rooms=358; Total capacity=441 students Bathrooms=36; Toilets= 30 Mess=02 and T.V rooms= 03	Dimensions (Sq.mt) Single seater= 7.43; Double seater =13.00 and Triple seater= 18.20
2	Girls Hostel (a) Total number of rooms= 84 (b) Total capacity=230 students (c) Bathrooms=29 (d) Toilets= 18 (e) Dining hall=01 and (f) T.V rooms= 03 (g) CCTVs =05 (h) Solar Panels (Birla Hostel) =15; hot water capacity 1875 litres (i) Solar Panels (Agarkar Hostel) = 27; hot water capacity 4,000 litres (j) Waste Water Recycling Plant- capacity 10,000 litres/ hour Tea vending machine, telephone and intercom systems, water purifiers and coolers	Dimensions (Sq.mt) Single seater=8.36; Double seater=14.30; Triple seater=17.37 and Six seater= 51.27

- Recreational facilities, gymnasium, yoga centre, etc.
There is a badminton hall, throw ball court, treadmill, spin cycle, reading room and library with books, newspapers and magazines at the girls’ hostel. There is a “Health Centre” for girls’ hostel for medical consultation. Apart from this, there is a separate gymnasium for girls at Gymkhana. Television sets are installed in both the hostels.
- Available residential facility for the staff and occupancy
Residential quarters are provided to the teaching and non teaching staff of the college, subject to availability. The total number of quarters is 50, 12 teaching staff and 28 non teaching staff members of the college have availed this facility.
- Constant supply of safe drinking water
There is 24 hr water supply. Water is supplied by Pune Municipal Corporation. In addition to this, there are 05 bore wells which are used as and when required.
- Security
26 security personnel have been employed. There is a separate ‘Rector Office’ with support staff comprising of 01 Hostel Supervisor, 20 Peons, 02 Security Guards and 12 Student Block Superintendents.
- House keeping
There are 06 people for maintaining the hostels- i.e. upkeep and cleanliness, 34 people for campus upkeep and wash room cleaning and 05 people for maintaining the garden.

4.1.6 What are the provisions made available to students and staff in terms of health care on the campus and off the campus?

There are two types of health care facilities. First category includes health awareness programmes, which are conducted regularly especially for girl students. Medical checkup for all first year students is conducted at the beginning of every academic year. The college has a “Health Centre” located at the girls’ hostel. The health centre is attended by a visiting doctor. The second category includes tie up of college with two multispecialty hospitals, viz., *Prayag* and *Deendayal Hospital*, which are in close vicinity of the college. Their services are available on priority to the staff and students of the college. Apart from this, there is Nursing and Physiotherapy college on the campus. OPD facilities of these colleges are made available to staff and students as and when required.

4.1.7 Give details of the Common Facilities available on the Campus Spaces for special units like IQAC, Grievance Redressal unit, Women’s Cell, Counseling and Career Guidance, Placement Unit, Health Centre, Canteen, recreational spaces for staff and students, safe drinking water facility, auditorium, etc.

The college has separate spaces for various activities on the campus. “Kimaya”, “Lower Recreational Hall” and Amphi-theatres are available for extracurricular activities. There is also a Ladies’ Common Room, which has been renovated recently. Spaces are available for units like IQAC, Grievance Redressal unit, Women’s Cell, Counseling and Career Guidance and Placement Unit.

- The details are as follows:

1	Internal Quality Assurance Cell A separate office for IQAC, area is 88 sq. mt. It has basic furniture such as cupboards, conference table, computer tables, chairs and book case. ICT facilities include 05 computers with net connectivity, 02 lap tops, 04printers, 02 telephone lines and 01 smart board.
2	Women’s Cell (Philosophy) Area is 9.00 sq.mt with basic furniture and computer.
3	Counseling and Career Guidance Area is 10 sq. mt. Located at the Department of Psychology.
4	Placement Unit Area is 12.35 sq.mt with basic furniture (tables, chairs and cupboards) and computer with net connectivity and printer.
5	Industry-Institute Interaction Cell Area is 12.00 sq.mt with basic furniture, NET and LAN connectivity.
6	Health Centre Area is 12.00 sq.mt- bed for patient, medical report cards, blood pressure measuring device and first aid box
7	Canteen There are 03 canteens measuring 120 sq.mt, 180 sq.mt and 760 sq.mt. respectively. Each canteen has a sitting arrangement for staff and students. There is a kitchen and serving counter.

8	Recreational Spaces There is a Lower Recreation Hall measuring 193 sq.mt, Open Air Theatre measuring 350 sq.mt, and a large concrete structure “Kimaya” measuring 310 sq.mt. located on the campus, which is used for cultural programmes, exhibitions, open forums and student related activities. For girl students, there is a separate recreation room with wash rooms.
9	Social Outreach and Enabling Centre The area is 22 sq. mt. There are benches, writing board, 01 computer and 01 laptop for use of students.
10	NCC The college has 02 NCC offices each measuring 4 sq. mt and 14 sq.mt, one for NCC officers and the other for students. Tables, chairs and notice board are provided.
11	NSS There is a separate space for NSS unit measuring 14 sq.mt. There is a table, chairs, notice board, cupboard, 01 computer and 01 printer.

4.2 Library as a Learning Resource

4.2.1 Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?

Yes, the Library has a “Library Advisory Committee” comprising of senior faculty members and headed by the Principal. The composition of the committee is as follows:

1	Dr. Ravindrasinh Pardeshi	Principal and Chairman
2	Dr. Nitin Kulkarni	Vice Principal, Faculty of Science
3	Dr. Shobhana Abhyankar	Vice Principal, Faculty of Arts
4	Dr. Sanjeev Nalawade	Head, Department of Geography
5	Dr. Raka Dabhade	Department of Physics
6	Smt. Rupali Shinde	Department of Marathi
7	Dr. Anand Katikar	Department of Marathi and Programme Officer, NSS
8	Smt. Aparna Vaidyanathan	Department of Computer Science(PG)
9	Shri. Jeevan Limaye	Department of Computer Science (UG)
10	Smt. Swati Jogalekar	Professor-In-Charge, Library
11	Smt. Bharati Koparkar (18 th June, 2013 to 18 th Nov, 2014) Shri. Bhiva Kamble (upto 31 st May, 2015)	Librarian and Secretary

Significant initiatives implemented by the committee are as follows:

- Generation of data on library holdings in terms of books, journals and other learning materials.
- Implementation of Online public access Catalogue or any other such type of system for routine processes.
- Subscription and Purchase of e-resources.
- Development of electronic resources management package for e-journals.
- Establishment of specialized services for manuscripts, reference reprography ILL (Inter Library Loan Service) information deployment and notification (Information Deployment and Notification),

download, printing, reading list/bibliography completion, In-house / remote access to e-resources, user orientation and awareness, assistance in searching databases and INFLIBNET / IUC facilities.

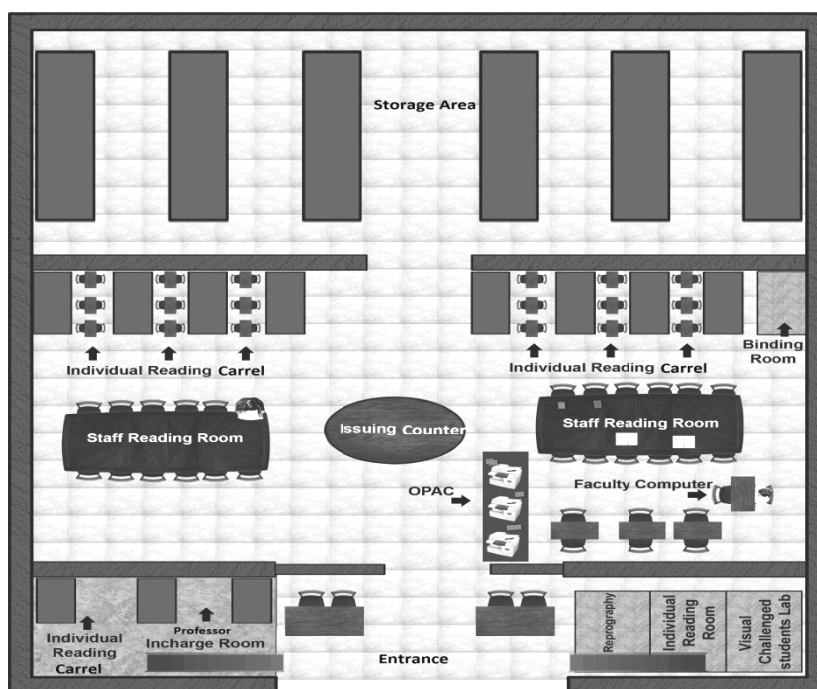
- Meeting the computational needs of students and establishment of 02 computational centres with net connectivity (40 computers).
- Organize literacy training programmes for stakeholders.
- Complete bar coding of departmental libraries.
- 05 computers with JAWS for visually challenged students.
- 03 computers for database search for students.
- 01 Television for display of notices.

4.2.2 Provide details of the following: Total area of the library (in Sq. Mts.); Total seating capacity; Working hours (on working days, on holidays, before examination days, during examination days, during vacation) and Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)

The details of Library (Bai Jerbai Wadia Library) are as follows:

1	Total area of the library (in Sq. Mts.)	1, 477.16 sq.mt.
2	Total seating capacity	400
3	Working hours (on working days, on holidays, before examination days, during examination days, during vacation)	<ul style="list-style-type: none"> • 9.00 am to 6.00 pm (on all working days) • 8.00 am to 6.00 pm (reading hall on all working days) • 8.00 am to 8.00 pm (during examination days) • 8.00 am to 1.00 pm (on Sundays and Holidays)
4	Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)	<ul style="list-style-type: none"> • Individual Reading Carrels- 10 pairs of tables and chairs. • Lounge Area for browsing and relaxing- 8 large cubicles with capacity of 4 persons each. • IT zone for accessing e-resources- two stand alone facilities with 40 computers (net connectivity).

- Apart from the Central Library, there are individual departmental libraries (14). The details of departmental Libraries is provided in **Annexure IV (B)**.



4.2.3. How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent on procuring new books, journals and e- resources during the last four years.

The college makes budgetary allocation (reference books) of approximately Rs. 4.00 lakhs for procuring new books and reference books. Requisitions are invited from various heads of department (Arts and Science) for purchase of new books/ reference books. These requisitions are passed on to the Library Advisory Committee and discussed and then approved for purchase. Apart from this, book suppliers/ publishers visit the library and departments with the latest titles. These titles are approved by the teachers and Head of the department and then forwarded to the librarian. The “Library Advisory Committee” sanctions the list of books/ reading material for purchase. Purchase orders are then issued to book sellers/ agencies and new titles are procured. The college library is also a member of N-LIST-INFLIBNET. The membership is renewed annually and this is a major resource for e-journals. The amount spent on books/ reference books and journals for the last five years is as follows:

Year	Item	Total Cost
2010-2011	Books/ Ref. Books	Rs.8,75,697.00
	Journals	Rs.15,583.00
2011-2012	Books/ Ref. Books	Rs.10,57,955.00
	Journals	Rs.20,030.00
2012-2013	Books/ Ref. Books	Rs.6,08,565.00
	Journals	Rs.16,162.00
2013-2014	Books/ Ref. Books	Rs.2,84,588.00
	Journals	Rs. 24,548.00
2014-2015	Books/ Ref. Books	Rs.4,36,411.00
	Journals	Rs.40,491.00

4.2.4 Provide details on the ICT and other tools deployed to provide maximum access to the library collection? OPAC, Electronic Resource Management package for e-journals, Federated searching tools to search articles in multiple databases, Library Website, In-house/remote access to e-publications, Library automation, Total number of computers for public access, Total numbers of printers for public access, Internet band width/ speed, Institutional Repository, Content management system for e-learning and Participation in Resource sharing networks/consortia (like Inflibnet)

Bai Jerbai Wadia Library is one of the oldest libraries across the State. Over a period of time, changes/ modifications in infrastructure and services have taken place. The process of automation of library services is in progress. An on-line public access catalogue is available for users and most of the bar coding of books is near completion. Very old and rare manuscripts have now been digitized. The details are as follows:

1	OPAC	<ul style="list-style-type: none"> On Line Public Access Catalogue available for users on College Intranet (Local Server). 03 computers are made available at the entrance of the library for this purpose.
2	Electronic Resource Management package for e-journals	<ul style="list-style-type: none"> Available through N-LIST INFLIBNET
3	Federated searching tools to search articles in multiple databases	-----
4	Library Website	<ul style="list-style-type: none"> Dedicated web page on the college website
5	In-house/remote access to e-publications	<ul style="list-style-type: none"> Available through N-LIST INFLIBNET
6	Library Automation	<ul style="list-style-type: none"> Services fully automated (Bar Code)
7	Total number of computers for public access	<ul style="list-style-type: none"> 43
8	Total numbers of printers for public access	-----
9	Internet band width/ speed	<ul style="list-style-type: none"> 22 Mbps (Lease line- Reliance)
10	Institutional Repository	<ul style="list-style-type: none"> On College Intranet (Server)
11	Content management system for e-learning	-----
12	Participation in Resource sharing networks/consortia (like NLIST-INFLIBNET)	<ul style="list-style-type: none"> N-LIST INFLIBNET Member

4.2.5 Provide details on the following items: Average number of walk-ins, Average number of books issued/returned, Ratio of library books to students enrolled, Average number of books added during last three years, Average number of login to opac (OPAC), Average number of login to e-resources, Average number of e-resources downloaded/printed, Number of information literacy trainings organized and Details of “weeding out” of books and other materials

1	Average number of walk-ins	<ul style="list-style-type: none"> • 113 (during working days) • 317 (during examination days)
2	Average number of books issued/returned	<ul style="list-style-type: none"> • 112(during working days) • 416 (during examination days)
3	Ratio of library books to students enrolled	• 53.47:1
4	Average number of books added during last three years	• 2,475
5	Average number of login to OPAC	367
6	Average number of login to e-resources	Data not available
7	Average number of e-resources downloaded/printed	Data not available
8	Number of information literacy trainings organized	-----
9	Details of “weeding out” of books and other materials	<ul style="list-style-type: none"> • Listing of books of old syllabi/ torn books etc. approved by concerned department and Library Advisory committee and discarded.

4.2.6 Give details of the specialized services provided by the library- Manuscripts, Reference, Reprography, ILL (Inter Library Loan Service), Information deployment and notification (Information Deployment and Notification), Download,Printing, Reading list/ Bibliography compilation, In-house/remote access to e-resources, User Orientation and awareness, Assistance in searching Databases and INFLIBNET/IUC facilities

1	Manuscripts	<ul style="list-style-type: none"> • 1396; Digitized through support from National Archives of India, Ministry of Culture, New Delhi and DES
2	Reference	<ul style="list-style-type: none"> • 12,000
3	Reprography	<ul style="list-style-type: none"> • Available for users with concessional rates
4	ILL (Inter Library Loan Service)	<ul style="list-style-type: none"> • Available with following Libraries: <ul style="list-style-type: none"> (a) Jaykar Library, SPPU, Pune (b) Gokhale Institute of Political Science and Economics, Dhananjayrao Gadgil Library, Pune (c) M.E.S. Abasaheb Garware College , Pune (d) Brihan Maharashtra College of Commerce , Pune

		(e) Kirti M. Doongursee College of Arts, Science and Commerce, Mumbai
5	Information deployment and notification (Information Deployment and Notification)	<ul style="list-style-type: none"> • Display Boards at appropriate locations. • Assistance available on request.
6	Download	<ul style="list-style-type: none"> • Facility available
7	Printing	<ul style="list-style-type: none"> • Not available
8	Reading list/ Bibliography compilation	<ul style="list-style-type: none"> • Available on request
9	In-house/remote access to e-resources	<ul style="list-style-type: none"> • Available through N-LIST INFLIBNET
10	User Orientation and awareness	<ul style="list-style-type: none"> • Conducted for staff of the library with regard to basic computational skills and library software. • Orientation for students, during “Principal’s Address” • Also through Notices/ display boards/ Instructions • Library staff trained at other centres like Inflibnet.
11	Assistance in searching Databases	<ul style="list-style-type: none"> • Available on request for OPAC
12	INFLIBNET/IUC facilities	<ul style="list-style-type: none"> • Available for users

4.2.7 Enumerate on the support provided by the Library staff to the students and teachers of the college.

Support for locating library books, journals and manuscripts is provided by the library staff. Help is also rendered in searching for title(s) through OPAC system to the user. There is a separate “book issuing and return” counter. The library also provides news papers and magazines. Photocopying facility is also available. The reading room for teachers on the ground floor is also used for book exhibitions, special programmes and lectures. Any other assistance pertaining to learning resources is also provided to users. Inter-Library Loan facility is made available on request.

4.2.8 What are the special facilities offered by the library to the visually/physically challenged persons? Give details.

The college makes proactive efforts to bring students with blindness into the mainstream. All kinds of procedural and practical support is provided to these students through our ‘Social Outreach and Enabling Centre’.

- Separate section with Braille books on ground floor of the library.
- Dedicated 05 computers with head phones.
- Specialized software – JAWS-13 for visually challenged students.

4.2.9 Does the library get the feedback from its users? If yes, how is it analyzed and used for improving the library services. (What strategies are deployed by the Library to collect feedback from users? How is the feedback analyzed and used for further improvement of the library services?)

Suggestion box is available at the entrance of the library. The users put their suggestions/ recommendations in the suggestion box. The suggestions are passed onto the librarian and appropriate action is taken. Many a time, there is a request from students to make the library available for extended hours, improvement in physical infrastructure like lighting facility, fans and repairs of tables and chairs- all these are considered and duly implemented.

4.3 IT Infrastructure

4.3.1. Give details on the computing facility available (hardware and software) at the institution. Number of computers with Configuration (provide actual number with exact configuration of each available system), Computer-student ratio, Stand alone facility, LAN facility, Wi- fi facility, Licensed software, Number of nodes/ computers with Internet facility, Any other

- The summary of computers, printers and scanners is as follows:

1	Total number of Computers	794
2	Total number of Printers	169
3	Total Number of Scanners	46

- The Summary of IT Infrastructure (Computers, Printers and Scanners) is provided in **Annexure IV (C)**
- The details of LAN and Wi-Fi Facility are provided in **Annexure IV(D)**
- The Computer-Student ratio for programmes where computer facility is essential is as follows:

Sr. No.	Department	Ratio (for practicals)	Ratio (Overall)
1.	Animation	1:1	1:1
2.	Computer Science (UG)	1:1	1:6
3.	Computer Science (PG)	1:1	1:5
4.	MCA	1:1	1:7
5.	M. Tech (Industrial Mathematics)	1:1	1:4
6.	Electronic Science (UG)	1:1	1:1
7.	Electronic Science (PG)	1:1	1:1
8.	Language Laboratory	1:1	-----
9.	Statistics	1:3	1:3

- Licensed Software, Servers and CCTV Cameras: Details are provided in **Annexure IV (E)**
- The campus is connected through fibre-optic cables, STP cables and UTP Cables for network and campus connectivity.

- The college has purchased “FORTINET” firewall for Internet Security.
- The college has dedicated lease line (Reliance) of 22Mbps for net connectivity.
- All the Departments/buildings are Wi-Fi enabled through indoor routers.

4.3.2 Detail on the computer and internet facility made available to the faculty and students on the campus and off-campus?

All the Arts and Science departments have computers and printers with internet connectivity. The campus has been networked with LAN. An appropriate number of LAN switches have been installed in the various departments depending on the number of users. All the prominent locations/ departments are Wi-Fi enabled. Apart from this, two computational centres of 40 computers have been set up in Bai Jerbai Wadia Library especially for students. Details of the number of computers with net connectivity is as follows:

Sr. No.	Office/ Department	Total No. of Computers	No. of Net Connected	No. available for staff and students
1.	Animation	76	76	76
2.	Social Outreach and Enabling Centre	1	1	1
3.	Main Administrative Building (includes language Lab)	63	43	63
4.	Botany	12	11	12
5.	Biotechnology	46	46	46
6.	Chemistry	20	17	20
7.	Computer Science (PG)	104	21	104
8.	Computer science (UG)	178	44	178
9.	Economics	5	5	5
10.	English	2	2	2
11.	Environmental Science	5	5	5
12.	Electronic Science (UG)	43	43	43
13.	Electronic Science (PG)	35	35	35
14.	French	1	1	1
15.	Gymkhana	1	----	1
16.	Geology	17	17	17
17.	German	1	1	1
18.	Hindi	1	1	1
19.	IQAC	6	6	6
20.	Library	54	54	54
21.	Marathi	1	1	1
22.	Microbiology	5	5	5
23.	NSS	1	----	1
24.	Physics	33	33	33

25.	Psychology	12	12	12
26.	Photography	16	16	16
27.	Philosophy	1	1	1
28.	Political Science	1	1	1
29.	Rector Office	3	3	3
30.	Sanskrit	1	1	1
31.	Sociology	1	1	1
32.	Statistics	27	27	27
33.	Zoology	15	15	15
34.	B.Voc.	2	2	2
35.	Examinations	2	2	2
36.	Mathematics	2	2	2
	TOTAL	794	551	794

4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

The college has a well established mechanism for upgrading and deploying campus IT infrastructure. The IT facilities have been upgraded in several phases during the past five years. While planning IT infrastructure, the college first assesses the need, number of students and staff and also identifies the end user. Accordingly, IT facilities are upgraded after 3/4 years. The old computers are shifted for web browsing or used for hardware practicals. The college has now shifted to a new ERP System (Governance Education Management System), which has various modules such as students' life cycle, employee life cycle, entire process of purchase /inventory/ stock, academic configuration, teacher-subject-student allocation, on-line admission, leave management system, placements, library and examination, which would act as MIS of the college.

- 02 persons are appointed for maintenance of IT infrastructure of the campus.
- At the same time, provisions are made in the budget for Annual Maintenance Contracts (AMC) for maintaining the hardware (MAC Enterprises and C-TECH Computers).
- New IT infrastructure is added whenever a need arises in the department(s). The needs/ requirements are in terms of software up gradation, purchase and maintenance.

4.3.4 Provide details on the provision made in the annual budget for procurement, up gradation, deployment and maintenance of the computers and their accessories in the institution (Year wise for last four years)

- Yes, the college makes provision in the annual budget for procurement, up-gradation, maintenance and purchase of accessories.

The details of provisions made are as follows:

	Computers (Rs.)	Software (Rs.)	Networking (Rs.)
2010-2011			
G	7,38,280.00	28,200.00	-----
SF	37,800.00	-----	-----
2011-2012			
G	5,94,490.00	37,800.00	-----
SF	4,300.00	-----	77,625.00
2012-2013			
G	8,65,695.00	4,70,583.00	5,13,336.00
SF	7,23,260.00	7,12,216.00	-----
2013-2014			
G	7,18,900.00	15,600.00	-----
SF	-----	5,82,879.00	-----
2014-2015			
G	16,95,000.00	7,10,001.00	-----
SF	-----	-----	-----

G- Grant-In-Aid; SF- Self Financing

4.3.5 How does the institution facilitate extensive use of ICT resources including development and use of computer-aided teaching/ learning materials by its staff and students?

All the departments in Arts and Science faculty have been provided with computers/ printers with net connectivity. The campus is networked through LAN. The college has 22 Mbps lease line from Reliance for net connectivity. Most of the classrooms are provided with DLPs and screens.

- Resources from various websites/web-links are used by the teachers for regular teaching-learning.
- Teachers prepare their own power point presentations and course materials that are provided to the students.
- There are 08 servers in the college, out of which 02 servers are used for data storage. Course material is uploaded on these servers and are easily available to the students.
- The college has MSDN academic alliance with MICROSOFT, which offers unlimited use of MICROSOFT products. Apart from this, the college has procured necessary licensed software especially for Animation, Computer Science, Electronic Science, Geology, Mathematics and Statistics.
- Some teachers have prepared their own e-resources like Advanced Operating System, DOT-NET, economics of labour MPM, FDI and Retail Trade, Indian Public Finance, Industrial Economics and Public Economics.
- The laboratories are available to students whenever they require. They are given freedom to use the resources and learn through e-resources.
- All Science laboratories are equipped with computer + LCD projector + portable public address system. These are used for demonstrations/explanations of practicals, power point presentations and video clips.

4.3.6 Elaborate giving suitable examples on how the learning activities and technologies deployed (access to on-line teaching – learning resources, independent learning, ICT enabled classrooms/learning spaces etc.) by the institution place the student at the centre of teaching-learning process and render the role of a facilitator for the teacher.

The college has provided the necessary infrastructure in terms of computers, net connectivity, LAN facility and DLP projectors in most of the classrooms and all the science laboratories. The entire campus is networked.

- Teachers are oriented for preparing multimedia presentations and guided to make the presentations effective and learner oriented.
- Teachers have prepared their own resource material in the form of e-resources and power point presentations.
- These resources are available for the students.
- Special facilities like net connectivity through “SKYPE” is also provided to the students. One module on “Abnormal Psychology” of 15 lectures with one overseas professional from Australia was arranged for the students. The students could directly interact with this expert . Similarly, the department of French conducted a course on Business French and also developed a “WHATSAPP” group for Indian students to interact with native French students.
- “Cyber Security” course is mandatory for all post graduate students. The learning material in the form of notes and power point presentations are uploaded on the college intranet and made available to the students.

4.3.7 Does the Institution avail of the National Knowledge Network connectivity directly or through the affiliating university? If so, what are the services availed of?

- The college does not avail National Knowledge Network Connectivity directly or through SPPU, Pune.

4.4 Maintenance of Campus Facilities

4.4.1 How does the institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following facilities (substantiate your statements by providing details of budget allocated during last four years)?

The college is managed by Local Managing Committee (LMC) that oversees the utilization of available allocation of budget:

- The realization of anticipated income as well as actual expenditure is monitored.
- The self financing departments have “Advisory Committee”, which looks into the requirements of departments and if it is justified, then it is forwarded to the LMC for approval and final purchase.

- Provisions in the Annual Budget for Computer procurement and Maintenance and upkeep of Campus Infrastructure are provided in **Annexure IV (F)**.

4.4.2 What are the institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and equipment of the college?

The college prepares and submits financial requirements under various budget heads to our parent organization (DES) every year. The DES has a “Finance Committee” to look into the financial needs of colleges/institutes. The proposed budget (includes requirements of all departments and activities of the college) is presented to the committee. The committee scrutinizes the budget and gives an approval after satisfactory explanations. The college LMC (**Local Managing Committee**) plays a monitoring role on the expenditure under various budget heads.

- DES has appointed “Estate Engineer” and “Estate Supervisor” for looking into issues related with up gradation/ maintenance/ repairs of the campus.
- The college has appointed 02 technicians for maintenance of hardware and software of IT infrastructure.
- Computers and printers in the campus are maintained through AMC (MAC Enterprises and C-TECH Computers).
- Maintenance of 02 Generators (120 KVA each) is done through AMC (Swastik Diesel Engineering).
- Campus upkeep (cleaning of campus including parking areas, toilets and bathrooms) is outsourced to Om Enterprises.
- Garden Maintenance is outsourced to Shriya Agrotech.

4.4.3 How and with what frequency does the institute take up calibration and other precision measures for the equipment/instruments?

All the instruments/equipments in the laboratories are well maintained and standard operation procedures are followed whenever used. Regular maintenance of instruments is also done through departmental funding as well as funding from external funding agencies. Before, procuring instruments, the “**Internal Review Committee**” makes a visit to the laboratory and assesses the need of procuring the instruments, and then recommends it for purchase.

- For minor instruments like pH meter, conductometer, potentiometer etc., calibrations are done every day, just before using the instrument. The process followed for calibration is as per standard methods (use of standard solutions like potassium chloride, potassium hydrogen phthalate, buffer solutions etc.,)
- For high end instruments like HPLC (High Performance Liquid Chromatography), IR (Infra Red Spectrometer), GC (Gas Chromatography), AAS (Atomic Absorption Spectrometer) and UV-Vis Spectrophotometer(s), the method used for calibration varies

according to the instrument as per standard operating procedures (SOP). Details of standard calibration procedures are provided in Annexure IV (G).

4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)?

- Main Circuit Breaker (MCB) and Earth Leakage Circuit Breaker (ELCB) at prominent power supply units.
- The college has water pipelines (2 lines of 3”) from Pune Municipal Corporation. The college has main water storage tank of 50,000 liters capacity. In addition to this, there are 30 storage tanks and 05 reservoir tanks for water storage and constant supply.

Any other relevant information regarding Infrastructure and Learning Resources which the college would like to include.

- Our Parent organization (DES) and the college make focused efforts towards upgrading and maintaining the infrastructure of the campus and laboratories. Several major instrumentation facilities, special facilities, office and printing facilities have been added during the last four years.



CRITERION V : STUDENT SUPPORT AND PROGRESSION

5.1 Student Mentoring and Support

5.1.1 Does the institution publish its updated prospectus/handbook annually? If 'yes', what is the information provided to students through these documents and how does the institution ensure its commitment and accountability?

Yes, the college publishes a prospectus and a handbook for every academic year. The college prospectus provides brief information about the college, admission procedure, eligibility criteria, rules regarding attendance and discipline, subject combinations offered in Arts and Science, new academic programmes introduced, post graduate and research programmes, scholarships available from various state government agencies, prizes and endowments offered by the college, notice for "Zero Tolerance" against ragging, details about the Committee for Prevention of Sexual Harassment and names of Heads of departments and Office bearers.

The Handbook contains student details, list of office bearers, rules regarding attendance and discipline, payment of fees, scholarships/freeships, prizes, endowments offered, information about the library and hostels. It also contains leave record of the student, special merit and special performance(s) record, feedback form on teaching and campus infrastructure, names and contact details of all Heads of departments.

5.1.2 Specify the type, number and amount of institutional scholarships / freeships given to the students during the last four years and whether the financial aid was available and disbursed on time?

The college offers different types of scholarships/freeships to students. These scholarships/freeships are given through state government agencies. These are for Scheduled Caste (SC), Other Backward Class (OBC), Nomadic Tribe (NT), Special Backward Class (SBC) and Scheduled Tribe (ST). Other scholarships are Shri Rajarshree Shahu, Economically Backward Class (EBC), Savitribai Phule Merit Scholarship, Jain Merit Scholarship, 80% Central Sector Scholarship, Minority, Serviceman/Ex-Serviceman, Secondary School Teachers' ward (STC), Primary School Teachers' ward (PTC), Eklavya Scholarship, National Merit, Government Open Merit Scholarship, Sanskrit Scholarship and Bidi Kamgar Scholarship.

The scholarships/freeships offered by the Central government are Science Talent Scholarship, DST-Inspire, National Scholarship, Eklavya Scholarship, Government Open Merit Scholarship, Sanskrit Scholarship, Handicapped/Blind Scholarship and Nagaland Government scholarship.

Apart from the above, foundations/ firms like Indian Oil, Jindal foundation, B. G. Shirke foundation, Sahara Group and LIC provide scholarships to students.

Foreign students' scholarships include scholarships from Indian Council for Cultural Relations (ICCR), which gives scholarships to students from Cambodia, Afghanistan, Turkmenistan, Uzbekistan, Bangladesh, Comores, Sri Lanka, Mozambique, Lesotho, Mauritius, Fiji, Vietnam, Mongolia, Somalia, Burundi, Indonesia and Ethiopia. Besides, international students also come occasionally on scholarships given by their own countries.

All this information is provided in the college prospectus and on fulfillment of eligibility conditions, the amount is disbursed. The details of amount disbursed (NT scholarship, SC scholarship, OBC scholarship, SBC scholarship and ST scholarship) is provided below:

Sr. No.	Year	No. of students		Amount disbursed (Rs.)	
		UG	PG	UG	PG
1	2010-2011	156	110	12,92,071.00	13,79,864.00
2	2011-2012	129	70	9,75,890.00	18,81,288.00
3	2012-2013	101	53	11,20,331.00	15,97,195.00

College also gives 'endowments' for meritorious students in different subjects. The details are as follows:

Sr. No.	Year	No. of beneficiaries	Amount disbursed (Rs.)
1	2010-2011	106	1,46,789.00
2	2011-2012	76	1,63,198.00
3	2012-2013	97	2,54,068.00
4	2013-2014	88	2,40,255.00

5.1.3 What percentage of students receive financial assistance from State Government, Central Government and other National Agencies?

All the scholarships/ freeships have specific eligibility criteria. The number of scholarships/ freeships to be given to students is decided by the University and State Government. Generally, 60% of students get financial assistance through these scholarships/ freeships.

Here is a list of students who have been awarded scholarships by International agencies for studying abroad:

- Shalmali Jadhav (2011) (Department of English) – awarded Erasmus Mundus scholarship for Masters' degree programme in Comparative Literature from the University of Sorbonne, Paris.
- Semanti Ray (2012) (Department of English) – awarded one year fellowship to study in the US under Near East and South Asia Undergraduate Exchange Programme. The funding agency was US Department of State.

- Sneha Mahajan and Ms Ketki Karandikar (2010-11) (Department of German) – awarded Erasmus Mundus scholarship to study at a German University for 10 months.
- Mrunmayee Sathye (2014) (Department of English awarded - one month Summer course scholarship given by DAAD (German Academic Exchange Service) to study at the University of Bamberg in Germany.
- Vaibhav Savant (2013) (Department of Physics) awarded- RISAM Scholarship for Ph.D. at Cork Institute of Technology, Ireland.
- Ms Sanika Hakim (2014) (Department of Microbiology) received funded fellowship under Khorana Program for Scholars 2014. Completed project entitled, “*Activity of LuxR transcription factor in quorum sensing in E.coli*” under the guidance of Dr. Julia van Kessel at Indiana University, USA.
- Sargam Muley (2015) (Department of Physics) awarded- Ph.D. scholarship at Cambridge University.
- Sneha Shashidharan (2015) (Department of Physics) awarded- Ph.D. scholarship at Cambridge University.
- Anjor Kanekar, (2010). Ph.D. scholarship, Solar Physics. University of Maryland, USA.
- Jaydeep Belapure, (2010). Ph.D. fellowship, Max Planck Inst. Germany.
- Maithlee Kalamkar, (2010). Ph.D. fellowship, Het Anton Pannekoek Inst. Amsterdam, Netherlands.
- Abhilash Mishra, (2010). Ph.D. Scholarship, Caltech Astronomy (Rhodes Scholar and MS, Cambridge University)
- Ms Priyanka Chaturvedi, Ph.D., CSIR Scholarship, Physical Research Laboratory. Ahmedabad.
- Mayuresh Surnis, (2011). Ph.D., fellowship, Radio Astronomy, NCRA, Pune.
- Indrajeet Patil, (2012). Ph.D., Fellowship SISSA Trieste, Italy, Cognitive Neuroscience.
- Abhijit Borkar, (2012). Ph.D., fellowship at Max Planck Institut für Radio astronomie.
- Golham Shaifulla, (2013). Ph.D. fellowship, Max Planck Institut für Radio astronomie, Germany.
- Juzar Thingan, (2014). Ph.D. Fellowship National University of Singapore, Post-Doctoral Fellowship Institut für Physik, Universität Augsburg.
- Sharmila Shirodkar, (2015). Post Doctoral Fellowship, Harvard University, USA.
- Sneha Shashidharan, (2015). Ph.D. Fellowship, Cambridge University, UK.
- Girish Kulkarni, Fulbright- Nehru pre-doctoral fellow, Ph.D. fellowship, Harish Chandra Research Institute Allahabad, Post Doctoral at Max Planck Institute for Astronomy Heidelberg, Germany.

- Nishita Desai, Ph.D. fellowship, Harish Chandra Research Institute, Allahabad.
Post Doctoral, University College London, High Energy Physics.
Post Doctoral at Institute of Theoretical Physics, Heidelberg, Germany.
- Bhaskar Agrawal, Ph.D. fellowship, Max Planck Institute, Germany.
- Madhusudan G. Ingale, Astronomy, Ph.D. fellowship, IISER, Pune
- Siddharth Hegde, Ph.D. scholarship, Max Planck Institute for Astronomy, Germany.
- Hamsa Padmanabhan, Ph.D. scholarship, IUCAA, Pune
- Rajshree Dutta, Ph.D. scholarship, IUCAA, Pune.
- Suvodip Mukherjee, Ph.D. scholarship, IUCAA, Pune
- Kshitija Kelkar, Ph.D. fellowship University of Nottingham,
- Reza Gholami, MS fellowship, University of Erlangen-Nürnberg, Germany.
- Tridibesh Dey, Integrated Ph.D. Scholarship, Ecole Polytechnique, Paris.
- Sudarshan Shinde, Integrated Ph.D. Scholarship, Ecole Polytechnique, Paris.
- Rohit Holkar, Erasmus Mundus, Gottingen University, Germany.

5.1.4 What are the specific support services/facilities available for?

- ✓ **Students from SC/ST, OBC and economically weaker sections**
The students from SC/ST, OBC and economically weaker sections are given freeships/ scholarships as per State Government regulations. Apart from the above, these students were also supported (financially) under UGC XI Plan Scheme for “Colleges with Higher Proportion of SC/ST Students”. 52 students have been provided assistance through this scheme and the total amount disbursed was Rs.1,04,000.00. There is also Student Welfare Fund (collected at the time of admissions from all students) that is deposited with the University and these funds are made available for needy students. On an average, Rs.7.00 lakhs / year are deposited at the University.

- ✓ **Students with Physical Disabilities**

The college provides all kinds of support to students with physical disabilities. The college has a significant number of visually challenged students. The SOEC takes all necessary steps to ensure that these students get all the required help. They are given extra time and writers during examinations. The college has installed Job Access with Speech (JAWS-13) software on 05 computers in the library (separate section) that enables conversion of printable material to audio form. BRAILLE books are made available in the Bai Jerbai Wadia Library. The college has a well established SAATHI Enabling Centre. This centre works with the visually challenged students. It began informally when some members of the Sociology Club started helping them with recording of notes before the exams. Some of the activities of the

SAATHI Enabling Centre are Study Circle, Peer Mentoring, arranging for writers/ scribes for examinations, propagating inclusive practices, celebration of Louis Braille Day and World Disability Day. Workshops and Guest lectures are also organized in collaboration with NGOs and Technical Training Institute of Pune Blind Men's Association. Students also participate in workshops and seminars organized outside the college. Besides, recreational activities too are arranged for these students in the form of get-togethers and picnics.

✓ **Overseas Students**

An International Students' Facilitation Centre has been established in the college for assisting and catering to the needs of international students. On an average, there are 300 International Students representing 30-35 countries. The students are assisted in the following ways:

- Assistance in admission procedure.
- Scholarships (through International Council for Cultural Relations).
- Liaison with Police Department.
- Orientation programme, tour of Pune city, Communication Skills' workshop
- Annual cultural programme, "Panorama"
- International Students' Facilitator (Psychology)

✓ **Students participating in various competitions: National and International**

Students who wish to participate in competitions at National/International level are provided with necessary administrative support in terms of permission to participate in the competition, academic support in terms of extra lectures and re-exams for such students, separate budget (cultural) for such expenditure towards travel/ daily allowance and other related needs. In case the expenditure is higher, then the college acts as a facilitator for obtaining sponsorship for the student.

- Ameet Singh (S.Y.B.A.) and Siddharth Bhagwat (S.Y.B.Sc.) participated in the Antarctica Expedition under TERI Tetrapack Leadership programme.
- Rutuja Junnarkar (S.Y.B.Sc.-Computer Science) has performed Bharatnatyam dance at several national level programmes and competitions, including television shows. She won several awards in the All-India dance competitions held in Orissa, Goa and Maharashtra. Recently she performed Bharatnatyam in international dance shows held in London.
- Sneha Rajguru (S.Y.B.Sc.-Computer Science), Shirin Limaye (S.Y.B.A) and Shruti Menon (F.Y.B.A.) have all represented India in Basketball. Sneha has captained the Maharashtra State team, while Shirin is the Captain of the Indian team.

- Neha Pardeshi (S.Y.B.Sc.- Computer Science) is the captain of the Maharashtra State Rugby team and has represented India in 8 international Rugby tournaments.
- Swapnil Wagh (M.A-I, Marathi) plays in cricket tournaments for the blind. He has represented India in 25 national and 2 international tournaments (T-20 Pakistan-India Blind Cricket Series).

✓ **Medical assistance to students: health centre, health insurance etc.**

The college has provided “Insurance Coverage” for all the students. Rs.10/- are collected from each student (UG and PG) and deposited with the University. Students can claim for insurance in case of medical emergency, accidents etc., In addition to this, first aid boxes are available in each department. A Health Centre has been established in the Girls’ Hostel. At the same time, the college has a tie up with multispeciality hospitals, *Prayag Hospital* and *Deendayal Hospital*. Their services are always available to our college students. All resident students are covered under “*Mediclaim*” insurance scheme at the time of admission in the hostel. In case of major/serious illness, medical treatment is immediately initiated.

✓ **Organizing coaching classes for competitive exams**

The college organizes coaching classes for UGC-NET/SET examinations and other competitive examinations like UPSC/MPSC. In-house faculty and experts from other institutions also engaged sessions during this programme.

✓ **Skill development (spoken English, computer literacy, etc.,)**

Every department makes an effort to enhance skill development amongst the students by organizing workshops/ lectures/ modules for both undergraduate and post graduate students. The programmes focused on aspects such as Personality development, English proficiency development course, Script writing, Landscape painting, Clay animation, Youth empowerment skills, Communication and Behavioral skills for self development. Other skill oriented programmes include PCB making for students of Electronic science and research projects through UGC-CPE Scheme. Most PG departments have included Communication skills (both Oral and Written) as part of the mandatory skill-development component introduced into the Credit-based PG programmes prescribed by SPPU, Pune.

Creative communication skills are learnt while making posters, using poems, pictures, photographs and puppets, writing and enacting street plays to focus on important social issues. Interpersonal skills are

learnt in the process of working in groups: viz. team work, group spirit and democratic decision-making.

Orientation on research methods, survey techniques, case studies and projects such as “*Micro City*” in collaboration with Volkswagen, Germany, also have added to the skill sets acquired by students of Economics, Psychology, Computer Science and Sociology. Visits to National Institutes like IUCAA, use of Linux for analysis of HEASARC database, use of Stellarium software for Astronomy, Visual Meteor shower observation techniques for Physics students have helped them in attaining additional skills apart from their regular curriculum.

The college has been awarded STAR College scheme by Department of Biotechnology. Six departments have been identified for the support under this scheme. The details of skill development programmes conducted have been provided in **Annexure V (A)**.

✓ **Support for Entry-level students and Slow Learners:**

Some departments conduct Bridge Courses depending on the needs of students. The details of such courses are as follows:

Sr. No.	Subject/ Department	Duration	Beneficiaries
1	Economics (Entrance Exams, Masters Classes in Economics) Economics- Peer Learning (Basics of Economics)	6 months	20 50
2	French conducts a Bridge Course for FYBA students	8 months	25
3	German conducts a Bridge Course for FYBA Basic German	8 months	20-30
4	Sanskrit- For First, Second and Third Year students	15 days	15
5	Mathematics (π School of Mathematics)	12 days	15
6	Microbiology (Immunology) for TYBSc Students	7 days	25

✓ **Exposure of students to other institutions of higher learning/ corporate/business houses etc.**

The college has a well established “Industry-Institute Interaction Cell”. This Cell provides a platform for interaction between industries and students. A ‘Summit’ meeting of industry and academia was organized, where experts from both industry and academics came together to guide students. Entrepreneurs too have been invited on other occasions to share their expertise and experience with students and guide them for placements. Undergraduate students participate in the Pune Intercollegiate Consortium (PICC) activities, which include interactions with scientists from National Institutes in Pune. Students also undertake short term projects and work under the guidance of scientists to get acquainted with techniques used in the laboratory.

✓ **Publication of student magazines**

The college publishes a magazine called “*Madhyam*”, which is a joint venture of teachers as well as students. Essays, articles with critical evaluations of various events, poems and reports are published in this magazine. The magazine also covers the academic, co-curricular and extra-curricular activities of the department and highlights achievements of teachers and students. In addition to this, *Science News Bulletin* called “*Dimensions*” was started by the Astro Club students four years ago. It is a biannual Science bulletin covering latest news/ updates in all the sciences, with articles by some renowned scientists. Present students as well as alumni contribute to the effort. Apart from latest science news, science puzzles, jokes and star charts, news about summer/winter schools, scholarships and entrance examinations and their websites are also included. 500 copies of this bulletin are printed twice a year and circulated among the student population. Recently, an e-magazine ‘*Conglomerate*’ has been published by Geology students.

5.1.5 Describe the efforts made by the institution to facilitate entrepreneurial skills among the students and the impact of the efforts.

The “Industry-Institute Interaction Cell” organizes interaction programmes with industries. The programmes are mainly conducted for Computer Science and Life-Science students. The department of Biotechnology conducted a one-day workshop, “Industry Academia Summit”. Microbax Ltd., Hyderabad and Praj Industries participated in this programme. A programme on “Quality Assurance and Quality Control” was also organized. Programmes focusing on “Career Opportunities in Biotechnology/ Biopharmaceuticals” were also conducted for a longer duration. Recently entrepreneurs from industries related to Biotechnology and Chemistry were invited (Bioera Life Sciences, Abhijit Group of Industries, RASA Life Science Informatics and KALA Biotech) and discussed various avenues for an entrepreneur/ opportunities in life sciences and shared their experience with the students. For computer sciences, three entrepreneurs from IT industry were invited for a panel discussion (on software and hardware) to share their experiences with students. Legal and financial aspects of IT industry were also discussed.

5.1.6 Enumerate the policies and strategies of the institution that promote participation of students in extracurricular and co-curricular activities such as sports, games, Quiz competitions, debates and discussions, cultural activities etc.-additional academic support, flexibility in examinations, special dietary requirements, sports uniform and materials, any other.

The college believes in promoting overall development of students. The policy of the college is in tune with the national policy for sports.

It reiterates the commitment of the college on all-round development of students. To fulfill this, the college adopts the following strategies:

- Procedural and practical support to participate in all extra curricular and co-curricular events for students at state/ national and international levels.
- Enhancing the infrastructure for sports such as playgrounds (02), Volley Ball court (01), Basket Ball Courts (02), Badminton Hall (01), Boxing Hall (01), Judo Hall (01), Table Tennis Hall (01) and Lawn Tennis Courts (07).
- Adopt and propagate flexible academic and examination plan and ensure students' academic compliance.
- Provide financial assistance to students winning awards at state, national and international levels.

The college “Gymkhana Managing Committee” (GMC) caters to all such needs of students participating in sports and cultural activities. The committee also mobilizes resources through different funding agencies for development of sports infrastructure. The Physiotherapy College of our parent organization, DES, provides consultation to students participating in sports activities.

For helping these students to manage their academic schedule, the GMC sends request through the Principal for conducting extra practicals/ lectures to the concerned department for students who participate in various sports/cultural activities round the year. The teachers also encourage these students and see that they complete their term work/ academic assignments. Re-internal examinations are also conducted for these students.

Sports uniforms (track suits, sweat shirts, caps, gloves, sports bag, shoes) and other sports equipment are provided to students. Travel and daily allowances are provided to students for their participation in Intercollegiate, University, National and International tournaments.

5.1.7 Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appeared and qualified in various competitive exams such as UGC-CSIR- NET, UGC-NET, SLET, ATE / CAT / GRE / TOEFL / GMAT / Central /State services, Defense, Civil Services, etc.

Coaching classes for UGC-NET/SET were conducted by the college, which were well planned and conducted for seven subjects. In-house faculty as well as experts in the subject from other institutions were invited for sharing their knowledge with the students. Study material and reference material/ resources were also provided to the participating students. The details are as follows:

Sr.No.	Title of Coaching Class	No. of Sessions Conducted	No. of Beneficiaries
1	UPSC and MPSC (Constitution of India, Indian Legislative Structure, general Geography of India)	36	103 (Includes students from Reserved Category/ General/ Financially Disadvantaged/ Minority)
2	NET/SET – Chemistry	22	60
3	NET/SET –Physics	32	47
4	NET/SET –Electronic Science	12	22
5	NET/SET –English	18	59
6	NET/SET –Economics	24	66
7	NET/SET –Life Sciences	32	41
8	NET/SET –Marathi	18	18

5.1.8 What type of counseling services are made available to the students (academic, personal, career, psycho-social etc.)

The college has a personal counseling and testing centre established in 2005 named “MAANAS” and housed in the department of Psychology. The counseling services include psychometric testing, career and personal counseling. Students seek aptitude testing and career counseling at MAANAS. Differential aptitude test, IQ test and some personality tests are administered to the students. Career guidance is provided on the basis of their test scores as well as other information collected through interviews with their parents. Over 180 students have availed the benefit of this facility.

5.1.9 Does the institution have a structured mechanism for career guidance and placement of its students? If ‘yes’, detail on the services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students selected during campus interviews by different employers (list the employers and the programmes).

The training and placement cell of the college assists students in career guidance and placements. The initiatives of the cell can be categorized into pre-placement and placement activities. Pre-placement initiatives include guest lectures organized for core subjects. Mock/practice tests are conducted for testing general aptitude as well as technical aspects of students. Mock interviews are also arranged and are conducted by senior students/ alumni working in different industries. The cell invites various companies on the campus to conduct tests/ interviews of students for selection. Every year at least 40-45 companies visit the campus and approximately 120 students are selected. Placement assistance is provided to final year students completing their undergraduate and postgraduate degrees. The recently-established Industry-Institute interaction cell has created a platform for sharing industrial experiences and needs.

Panel discussions and lectures by experts have helped in mobilizing placements for Life-Sciences' students.

Some prominent employers are:

- HDFC Standard Life Insurance
- Progressive Media Group (Economics)
- Volkswagen (Germany) Chakan, Pune
- IBM Daksh
- Alliance Francaise, Bangalore
- Francofil Institute, French Embassy, Delhi
- Strategic Foresight Group (Foreign languages)
- XTRONICS Imaging System
- AVAYA Software and Tech. Engineer
- Electronica, Precise Automation and Control Pvt. Ltd..
- Perkin Elmer
- Precision Automation and Robotics India Ltd., (Electronic Science)
- Reliance Life Sciences
- Lupin Biotech
- NCORD
- Genova Biopharmaceuticals
- Bioera
- Cordlife
- Biosolutions (Life Sciences)
- Aurum Mining Pvt. Ltd.
- Geological Survey of India
- NALCO
- Cybertech Systems and Software Ltd.,
- DBM Geotechniques and Construction Pvt. Ltd.,(geology),
- Sustainability Initiative, Pune, TERI, Mumbai, (Environmental Science)
- Ultratech, Pune, (Environmental Science)
- Nalco Waters India Pvt., Ltd, Pune (Environmental Science)

The placement percentage for computer sciences is about 85%. The list of programmes conducted and companies visiting the campus for placement are provided in **Annexure V (B)**.

5.1.10 Does the institution have a student grievance redressal cell? If yes, list (if any) the grievances reported and redressed during the last four years.

Yes, the college has a mechanism for addressing the grievances of students. Suggestion boxes have been installed at prominent locations in the campus. Written suggestions are read periodically and addressed by the concerned department/section. Students have grievances regarding extended hours for library, cleanliness in the campus, adjustments of practical batches and examinations. Appropriate action is taken on these grievances.

5.1.11 What are the institutional provisions for resolving issues pertaining to sexual harassment?

The college has a Committee for “*Prevention of Sexual Harassment and Atrocities against Men and Women*”. The composition of the Committee is as follows:

1.	Dr. Deepti Gangawane	Chairperson, Head, Department of Philosophy
2.	Dr. Narendra Kadu	Registrar, SPPU, Pune Expert from University
3.	Dr. Shobhana Abhyankar	Member and Vice Principal, Faculty of Arts
4.	Smt. Sunita Pandhe-Gupta	Member, Department of Sociology
5.	Smt. Swati Joglekar	Management Representative, Deccan Education Society
6.	Shri.Kamalakar Dhakephalkar	Member and Judge (Retired)
7.	Shri. Sharad Avasthi	Member, Police Officer (Retired)
8.	Shri. Prashant Kothadiya	Social Worker
9.	Smt. Tejasvi Sevekari	Social Worker, “ <i>Saheli</i> ” HIV AIDS Karyakarta Sangh, Pune
10.	Smt. Amruta Kulkarni	Member, Head, Department of German
11.	Smt. Akshada Agav	Student Representative
12.	Smt. Neelima Bhalerao	Member Secretary, Department of Statistics

The Committee is formed as per the guidelines prescribed by the University and also functions on the same guidelines. Members from various walks of life like the Police Department, Law, Judiciary and Non Government Organizations, who are experienced in dealing with such types of cases have been included in the committee. The functions of the committee include creating awareness amongst the staff and students, thoroughly investigating grievances of this type (if any) and ensuring that justice is done. “*Vishakha Guidelines*” against Sexual Harassment at the work place are displayed at prominent locations and discussed with the students and staff. This Cell organizes Guest Lectures/Poster presentations for creating awareness amongst the students. The Cell also makes an effort to interact with parents to impress upon them the need for sensitizing and counseling their children to take preventive measures.

5.1.12 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

Yes. The college has an *Anti-ragging Committee*. The Composition of the Committee is as follows:

1.	Dr. Ravindrasinh Pardeshi	Principal and Chairman
2.	Dr. Sunil Shete	Joint Director, Higher Education, Government of Maharashtra
3.	Shri. Pravin Chougule	Police Inspector, Deccan Gymkhana Police Station
4.	Shri. Umesh Ghongade	Media Representative
5.	Shri. Prashant Kothadiya	Social Worker
6.	Dr. Nanda Kamble	Member, Department of Marathi

7.	Shri. Anil Matkar	Parent Representative
8.	Ms. Siddhi Bhat	Student Representative (UG)
9.	Shri. Pravin Matkar	Student Representative (UG)
10.	Shri. Shrikrishna Kale	Student Representative (PG)
11.	Dr. Jayawant Awaghade	Office Representative and Registrar
12.	Shri. Shridhar Vhankate	Chief Rector, Boys' and Girls' Hostel
13.	Dr. Navnath Chandanshive	Coordinator, Department of Zoology
14.	Shri. Kiran Shaligram	Special Invitee: Chairman, Local Managing Committee

The Committee regularly monitors overall discipline in the campus. No incidences of ragging have been reported.

5.1.13 Enumerate the welfare schemes made available to students by the institution.

(a) Earn and Learn Scheme

The scheme is provided by SPPU, Pune and implemented through the college. The college has a “Student Welfare Officer” who coordinates and implements the scheme, which provides financial assistance to needy students. The students are selected by a Selection Committee comprising three teachers, one non-teaching staff and one/two student representatives. About 40 to 50 students are selected by the committee every year. Each student is required to work for only four hours per day at the allocated department. A muster is maintained for their work which has to be signed by them every day. A student gets approximately Rs. 1000 to Rs. 2300 per month as financial assistance through this scheme. The details of the amount disbursed during the past five years are provided in **Annexure V (C)**.

Apart from the above, there is “Student Aid Fund (Poor Student Fund)”. The college collects Rs. 10/- per student (as per university guidelines) and deposits it with DES. A student who needs such help, makes an application forwarded through the Head of the Department and finally sanctioned by the Principal.

(b) Student Insurance

All students admitted in the college are covered under a government insurance scheme through University. All the students in the hostel are given Insurance cover.

(c) Subsidized Canteen

Canteen rates are lower by 25% to 40% as compared to nearby hotels. Every year, a few needy students are given free meals in the college mess.

(d) Student counseling and support

The Department of Psychology conducts formal as well as informal counseling sessions for students. About 300-350 students take the benefit of counseling every year. Teachers help students to solve their personal problems or problems related to academics in the college. Students from rural areas are especially counseled by teachers and this helps them adjust to city life.

5.1.14 Does the institution have a registered alumni association? If ‘yes’, what are its activities and major contributions for institutional, academic and infrastructure development?

Yes, the college has a registered alumni association (*The Fergussonians*) established in the year 1945. The activities of the alumni association are:

- Social awareness programmes on issues like water management, improving lighting efficiency, reducing energy consumption and green drives.
- Organizing seminars, workshops and training programmes for teachers in rural schools.
- Interactive sessions with renowned entrepreneurs, senior academicians and well-known personalities from all walks of life like Shri Vithal Kamath, Shri Ram Pradhan, Smt Sharon Edwards, Smt Prabha Atre and Shri Mohan Dharia.
- Coaching classes for IAS preparations are conducted by charging reasonable fees.
- “The Fergussonians” have constituted “*Fergusson Gaurav*” award for felicitating distinguished past students of the college with remarkable achievements in their fields.

The alumni association helps the college in payment of fees for needy students and also provides financial support for annual cultural programmes.

5.2 Student Progression**5.2.1 Providing the percentage of students progressing to higher education or employment (for the last four batches) highlight the trends observed.**

Student progression	2010-2011	2011-2012	2012-2013	2013-2014
UG to PG	60-70% (Arts) 70-75% (Science)	60-70% (Arts) 70-75% (Science)	60-70% (Arts) 70-75% (Science)	60-70% (Arts) 70-75% (Science)
PG to M.Phil.	-	-	-	-
M.Phil to Ph.D	-	-	-	-
PG to Ph.D.	-	-	-	-
Employed	60-70% * 50-60%**	60-70% * 50-60%**	60-70% * 50-60%**	60-70% * 50-60%**

Campus Selection	3-5% (Arts) 8-10% (Science) 95% (Computer Science)	3-5%(Arts) 8-10% (Science) 95% (Computer Science)	3-5%(Arts) 8-10% (Science) 95% (Computer Science)	3-5%(Arts) 8-10% (Science) 95% (Computer Science)
Other than campus recruitment	5% (Computer Science)	5% (Computer Science)	5% (Computer Science)	5% (Computer Science)

* For M.A. English, Economics and Psychology.

** For Post Graduate Programmes in Science. However, students of subjects like Biotechnology, Botany, Environmental Science and Microbiology choose to undertake research.

- It has been observed that many students choose to work for a few years before they pursue their M.Phil. or Ph.D. degree.
- Several students from Arts as well as Science pursue their Masters Degree abroad after their Post Graduation in India.

5.2.2 Provide details of the programme wise pass percentage and completion rate for the last four years (cohort wise/batch wise as stipulated by the university)? Furnish programme-wise details in comparison with that of the previous performance of the same institution and that of the Colleges of the affiliating university within the city/district.

Year	2010-11	2011-12	2012-13	2013-14
B.A. (appeared)	405	401	469	494
Passed	366	401	432	444
Completion rate	90%	100%	92%	90%
B.Sc. (appeared)	712	662	723	833
Passed	570	547	578	616
Completion rate	80%	83%	80%	74%
M.A. (appeared)	169	182	176	163
Passed	151	155	140	135
Completion rate	89%	85%	80%	83%
M.Sc. (appeared)	492	480	471	468
Passed	404	384	373	324
Completion rate	82%	80%	79%	69%
M.C.A. (appeared)	63	66	59	68
Passed	53	65	56	61
Completion rate	85%	98%	95%	90%
M.Tech. (appeared)	27	24	23	23
Passed	26	22	18	23
Completion rate	96%	92%	78%	100%

5.2.3 How does the institution facilitate student progression to higher level of education and/or towards employment?

The college takes numerous initiatives to inspire and motivate students to pursue higher education after their graduation / post-graduation. For instance, when the teachers orient their students in the first year classes, a broad outline of the scope of that subject and avenues that are open for the students after their degree courses are discussed. Guest

lectures by eminent academicians/ experts in the field are arranged by all the departments so that the students get a chance to interact with experts who have contributed very meaningfully to their discipline. This can also serve as a guiding light for students to pursue higher education in their field. Some departments have organized Skype lectures to allow students to interact with prominent scholars who are working abroad. Some departments like Sociology have tie ups with NGOs and institutes, which help the students in gaining field experiences. For subjects like Psychology, Biotechnology, Chemistry, Computer Science, Electronic Science and Microbiology the students do their project work with various national institutes, industries and IT companies. This helps them to understand practical applications of their subject and helps them in progressing further.

5.2.4 Enumerate the special support provided to students who are at risk of failure and drop out.

Some of the departments (especially language departments) provide remedial teaching to academically weaker students. Otherwise, students who are likely to drop out owing to financial problems are given financial support from the Poor Student Fund of the college.

5.3 Student Participation and Activities

5.3.1 List the range of sports, games, cultural and other extracurricular activities available to students. Provide details of participation and programme calendar.

The college offers a wide range of sports/ games to students. The indoor games include Badminton, Table Tennis, Chess, Carrom, Squash, Weight Lifting and Best Physique; outdoor games include Athletics, Football, Hockey, Basket Ball, Hand Ball, Base Ball, Volley Ball, Swimming, Water Polo, Lawn Tennis, Cycling, Cricket, Shooting, Kabaddi and Kho-kho. Recently combat games like Judo, Wrestling, Archery and Fencing have been introduced.

The details of student participation in various sports/ games is as follows: (last Five Years)

Year	Inter-collegiate	University	Zonal	National	Inter-national	Total
2010-2011	4	19	10	6	3	42
2011-2012	28	10	11	1	6	56
2012-2013	31	14	11	6	1	63
2013-2014	36	16	9	1	3	65

- Major achievements of students in sports are as follows:

Year	Achievements
2010-2011	<ol style="list-style-type: none"> 1. Surabhi Date, Rugby, Indian Team Member, Tournament held in Malaysia. 2. Shruti Kotwal, only Indian International Ice Skating Player, South Asian Competition held and 03 Gold medals awarded. 3. Deepika Joseph, International Kabaddi Player and Member, Indian Kabaddi Team. 4. Sayali Bhilare, International Lawn Tennis Player. 5. Deepa Sudame secured Gold Medal in Swimming at National level.
2011-2012	<ol style="list-style-type: none"> 1. Vikrant Ghaisas, International Player in Pistol Shooting won gold and bronze at Asian Games, Doha, and January, 2012. 2. Sayali Bhilare, International Lawn Tennis Player, Junior National participation in Italy and Spain. 3. Surabhi Date and Neha Pardeshi represented India in Rugby 4. Deepika Joseph, International Kabaddi Player and Member, of India Kabaddi team. 5. Neha Pardeshi participated in Rugby International Tournament, Malaysia.
2012-2013	<ol style="list-style-type: none"> 1. Sneha Rajguru, under 18 Federation International Basket Ball Association of Asia, Malaysia. Captain, Indian Basket Ball Team 2. Vikrant Ghaisas, International Player in Pistol Shooting. Won 02 individual Bronze Medals and 02 Team Bronze medals, International Junior Championship, Germany. 3. Suyash Jadhav, Para Olympic swimmer, awarded 05 medals at National level.
2013-2014	<ol style="list-style-type: none"> 1. Rucha Divekar, World Championship participation in Gymnastics, Belgium 2. Shireen Limaye, 25th FIBA Asia Championship at Bangkok and participated in Lusotonia Games, Goa. 3. Sneha Bhat, Taekwondo Gold medal, Lusotonia Games, Goa. 4. Swapnil Wagh participated in Indo-Pak T20 Blind Cricket series.
2014-2015	<ol style="list-style-type: none"> 1. Shruti Menon, Member, Indian Basket Ball Team (three times); India Camp (six times) and national level (25 times). 2. Shireen Limaye, Captain of India, under-16 Team of Basket Ball. Participated in 24 National and 09 International Tournaments. 3. Neha Pardeshi participated in 06 International Rugby tournaments including Commonwealth and Asian Games. 4. Bhuvaneshwari Jadhav, selected to represent India in International Karate Tournament to be held in Spain.

- Dipika Joseph (Kabaddi), Shradha Bhat (Taekwondo), Mansi Bhide (skating) and Ruta Deshmukh (Mallakhamb) have been awarded “*Shiv Chatrapati Award*” in the year 2011-2012.

5.3.2 Furnish the details of major student achievements in co-curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. for the previous four years.

Our students have been very active in cultural events and competitions like Elocution competition, singing, dance, drama and one-act play. Some of them have won awards in acting. The college is proud that Ms. Parna Pethe who played the role of Ramaa in the Marathi film Ramaa-Madhav is a student of Fergusson College. The Government of Maharashtra also conferred an award on her for her valuable contribution to the field of dramatics.

The range of student participation in cultural activities is as follows:

- Malhar Festival, Suman Karandak, Sarpotdar Karandak, Purshottam Karandak, Vinodottam Karandak, Firodia Karandak and Sakal Karandak.
- State/ National level Debate and Elocution Competitions: Dandekar Karandak, Chiplunkar Karandak, Sir Vishweshwaraiya Karandak, Agarkar Karandak, Bajirao Mastani Karandak, Moropant Karandak, Pramod Mahajan Karandak, Vivekanand Karandak, Dr. P.C.Alexander Karandak, etc.
- College Level: Muktachhand, Annual Cultural Festival, Departmental Festivals, and Venture Club.

The details of students who have participated in cultural events during the past five years are as follows:

Cultural events	Inter-collegiate/ University		Zonal		National		International	
	Participated	Won	Participated	Won	Participated	Won	Participated	Won
Elocution	360	239	589	375	140	82	1	1
Singing and dance	301	246	471	301	101	63	4	1
Drama	324	239	527	442	127	70	0	0
Total	985	724	1587	1118	366	215	5	2

- Major achievements of students in Cultural are as follows:
 1. Parna Pethe, International Drama Competition, Berlin.
 2. Arya Ambekar, Playback singer at National and International level competitions in Junior and Senior events.
 3. Suyash Tilak- Actor in plays, Marathi films and TV serials.
 4. Bhushan Raut- International Debate Competition, UNESCO, Paris
 5. Jaydeep Vaidya- Music Composer
 6. Suraj Patil and Nehal Pimpalkhare- “Purshottam Karandak” final round participation
 7. Amira Patankar- Classical Dancer, Cinema and TV serials
 8. Sachin Pawar and Shriranjan Awate- Elocution and Debate Competitions. Won more than 100 prizes.

9. Sawani Ravindra and Ankita Devale- playback singers.
10. Shruti Vishwakarma- classical and light vocal playback singer
11. Supriya Phate- Classical and Folk Dancer
12. Aishwarya Kale presented “Lawani” dance at Austria, Paris and London.
13. Shantanu Ghule and Nikhil Shetye- Firodiya Karandak Winners.
14. Gauri Jadhav and Manodeep Thakur- selected and participated in Republic Day Parade, New Delhi.
15. Sachin Ghuge- Written and published a novel in Marathi, “Kimaya”.

5.3.3 How does the college seek and use data and feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?

The college has a system whereby students give feedback on teaching every semester. Feedback is also taken on their campus experience through suggestion boxes installed at prominent locations. This feedback helps in improving the overall system. Feedback on the curriculum is taken from prospective employers. This helps teachers in fine tuning of deliverables in the classroom as well as in laboratories.

5.3.4 How does the college involve and encourage students to publish materials like catalogues, wall magazines, college magazine, and other material? List the publications/ materials brought out by the students during the previous four academic sessions.

- The college publishes a magazine called “*Madhyam*”, which is a joint venture of teachers and students. Essays, articles with critical evaluations of various events, poems and reports are published in this magazine.
- Students of “*Astro Club*” of the Department of Physics publish a Science bulletin- “*Dimensions*”. It is biannual and covers latest news in all sciences with articles by some renowned scientists. Present students and alumni also contribute to it.
- Students of Geology publish an e-magazine “*Conglomerate*” which bi-annual.

5.3.5 Does the college have a Student Council or any similar body? Give details on its selection, constitution, activities and funding.

Yes, the college has a “Student Council” for every Academic Year. The selection of “Student Council” is as per provisions of Section 40(2)(b) of the Maharashtra University Act, 1994. The composition of “Student Council” is as follows: Principal, Student Welfare Officer, Teacher In-Charge of NCC, NSS Programme Officer, one student from each class with academic merit at the examinations held in the preceding year and engaged in fulltime studies in the college (nominated by the Principal), Director of Sports and Physical

Education, one Student each (nominated by the Principal) showing outstanding performance in Sports, NSS, Adult Education, NCC and Cultural Activity, two female students nominated by the Principal (SC/ST/NT/DT-NT/OBC). The function of the Student Council is to maintain overall discipline on the campus, work as a facilitator between the students and the college and coordinate all the extra-curricular activities and annual departmental festivals of the college.

5.3.6 Give details of various academic and administrative bodies that have student representatives on them.

Student representation and participation has been an integral part of academics as also of the various activities of the college. Student representation is on the following committees:

- Student Council
- Anti-Ragging committee
- Committee for Prevention of Sexual Harassment and Atrocities against Men and Women
- Internal Quality Assurance Cell
- Earn and Learn Scheme
- All organizing committees for seminars, conferences and workshops conducted in the college
- All Departmental Association activities and annual festivals are organized by students.

5.3.7 How does the institution network and collaborate with the Alumni and former faculty of the Institution.

The college invites former faculty members and alumni for seminars and conferences organized by the college and they are felicitated on such special occasions. Some of the former faculty members / Principals are invited to deliver special sessions at teachers' training programme. Through such functions the present faculty members and students get an opportunity to interact with the alumni and former faculty of the institution.

2nd January is the Foundation Day of the college. On this day, all the alumni and parents are invited to visit the college and interact with the staff.



CRITERION VI : GOVERNANCE, LEADERSHIP & MANAGEMENT

6.1 Institutional Vision and Leadership

6.1.1 State the vision and mission of the Institution and enumerate on how the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institution's traditions and value orientations, vision for the future, etc.?

- **Vision :** We aspire to carry forward the vision of our founders of providing affordable quality education, while expanding our academic horizons to bring the institution on par with global leaders in the field of higher education.
- **Mission :** Strive for excellence in education in keeping with the motto of the college, "Knowledge is Power" and prepare young minds for imbibing knowledge, skills and sensitivity.
- **Objectives :**
 - (a) Facilitate value-based holistic learning by integrating traditional and innovative learning practices to match the highest quality standards.
 - (b) Motivate the students to bring out their creative potential and nurture the spirit of critical thinking.
 - (c) Equip students to adapt better to the changing global scenario and gain access to multiple career opportunities.
 - (d) Provide inclusive education by making it accessible to all sections of society.
 - (e) Inculcate a strong sense of nationalism in keeping with the glorious heritage of the institution.
 - (f) Sensitize and engage students in issues of gender equality, human rights and ecology in order to make them socially responsible citizens.

The college has been serving the society at large for the last 130 years providing education rooted in values and the skills required for governing and running a self-governed nation. This is evident from the numerous national leaders in every field produced by the college. This can be considered as the major distinctive characteristic of the college. Our founders played a proactive role in the process of social and political reform that India needed during the 19th Century. Hence, Fergusson College played a leading role in the Indian renaissance during the freedom struggle by awakening and inspiring the youth and continues to do so even today by endeavouring to keep abreast of the changes taking place in the academic world and society at large.

Over the past century the college has developed a culture of conducting student centric activities- co-curricular as well as extracurricular, which encourages every student to participate in the activities, identify their strengths and develop their potential. This culture has been passed on from

the earlier generation of teachers to the newer generation of teachers. Vision and mission of the college are in consonance with the objectives of higher education in India.

6.1.2 What is the role of top management, Principal and Faculty in design and implementation of its quality policy and plans?

College is governed by the Deccan Education Society. The office of DES and the college are on the same campus. This physical proximity provides convenience for the top management, Principal and the faculty to work together for the implementation of quality policy and plans.

The management provides the roadmap and general guidelines for quality policy in order to create a conducive learning environment and preserve the ethos of academic excellence set up by the college. The “*Local Managing Committee*” (LMC) consisting of representatives from management, teaching and non-teaching staff along with the Principal is committed to effective governance. The LMC guides in planning, monitoring and evaluating mechanisms regarding administrative and academic processes as per Maharashtra Universities Act, 1994.

IQAC provides facilitative and participative voluntary system for the sustenance of quality and enhancement measures. The Principal is the ex-officio chairman of IQAC and plays a significant role in ensuring proper communication and networking with the stakeholders. At the beginning of each academic year, IQAC prepares the plan for all the educational activities i.e. “*Academic and activity calendar*”, teacher’s diary and non-teaching diary; by consulting the Forum of Arts and Science Heads as well as LMC.

The faculty is actively involved in decision making process through the “*Departmental Committees*”. Departmental committees are given responsibility to take all the necessary steps for successful implementation of the academic/activity plan and submit the report on the action taken every term for “*Academic Audit*”. At the end of every academic year, every department submits the “*Annual departmental activity report*” to the Principal; which is then published in the Annual College Magazine “*Madhyam*”.

6.1.3 What is the involvement of the leadership in ensuring

- **The policy statement and action plans for fulfilment of the stated mission**

The leadership (top management and Principal) in collaboration with LMC and IQAC make sure that the policy statement and the action plans are aligned with the stated mission of the institute. The leadership is also involved in communicating and reviewing the policies/action plans from time to time through meetings with various

stakeholders periodically. The faculty meetings are held usually at the beginning and end of every term.

- **Formulation of action plans for all operations and incorporation of the same into the institutional strategic plan**

The institutional strategic plan (2010-15) was carefully prepared in consultation with the stakeholders as well as by referring to the suggestions provided by NAAC peer team report for the second cycle. Suggestions and recommendations are used to review and revise the action plan periodically. Leadership considers the modifications in action plan and incorporates these into the strategic plan in consultation with LMC. IQAC and departmental committees initiate the necessary implementation plan for every academic year.

- **Interaction with stakeholders**

The Principal follows a democratic and open door policy of leadership. Any stakeholder is free to come to the office of the Principal with grievances and constructive suggestions. The Principal also interacts with stakeholders such as alumni, parents and prospective employers through the periodic interactions held by various departments. This helps the college to ensure that its activities are as per the mission and vision of the college and in tune with the needs of the society. Various meetings and interactive sessions are arranged such as interaction with students through induction program and during annual departmental fests, interaction with heads of departments through Forum of Arts and Science heads, Student council meetings, Alumni meet, and biannual faculty meeting.

- **Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders**

The leadership understands the importance of dynamic policy and planning. A periodic need analysis is carried out with the help of key administrative (Vice Principals) and academic (Heads of departments and senior faculty members) personnel. Interaction with various stakeholders like Government, Directors of Higher Education, University, UGC, DST and other Higher Education bodies provides valuable inputs for future policies and planning. The changing global scenario as well as local needs are understood by consulting the stakeholders. The policies and plans are framed based both on the past experience and after assessing future needs. The management provides all the necessary support (administrative, financial and logistic) for any new plans designed for the benefit of stakeholders.

- **Reinforcing the culture of excellence**

The leadership is committed to reinforcing the culture of excellence in all the aspects for providing a dynamic learning environment on the campus. The leader as well as all the faculty members of the college endeavour to impart quality education through traditional and innovative learning practices. Efforts are also made to provide a creative academic environment by encouraging independent thinking

and exploration. Students are sensitized on relevant social issues and encouraged to participate in understanding and solving/ at least mitigating these in some measure through various activities both on and outside the campus. Students from the college have always been in the forefront when it comes to the arena of sports and culture.

- **Champion organizational change**

The leadership plays a critical role in formulation and implementation of policy/ action plan as per the current trends and requirements. Smart leaders believe that they do not make a change happen. They know that the people in the institute do the work, adapt themselves to accept change and ultimately, make the change happen.

The principal through IQAC compiles the suggestions from the stakeholders in formal or informal ways for formulation of policies and action plan. After finalization of the action plan, the changes in the policies are communicated to the stakeholders for implementation. A conscious effort by the leadership and all the stakeholders generates the positive forward momentum needed to bring about change and maintain the brand reputation of the college.

6.1.4 What are the procedures adopted by the institution to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time?

With the advent of globalization and impact of ICT, the institute has identified the need to change the method of monitoring and evaluating policies and plans. The general procedure adopted by the institute to monitor and evaluate policy and plans for effective implementation and improvement is described below.

- For a given quality policy or plan, collect the feedback from the stakeholders for monitoring the policy/plan.
- Analyse the information and evaluate the policy / plan. Analysis might provide the “best-case” scenario and a “worst-case” scenario for each policy or plan.
- In case of worst case scenario, identify the problem and develop actions that can be taken to either avert catastrophes or reduce losses.
- Improve the quality policy / plan till “most-likely” outcome is obtained.

The college has made consistent efforts towards enhancing the overall “Quality” of academics and administration. For every academic program, an Academic audit of teachers is carried out by the IQAC. In house On-Line Feedback System has been developed and implemented by the IQAC. For administration, web-based college administration system has been used right from student admissions to administration. Now college is upgrading to cloud-based administration software called Governing Educational Management System (GEMS), which will be helpful to all stakeholders to follow the plans and the policies of the institution with greater ease.

6.1.5 Give details of the academic leadership provided to the faculty by the top management?

The top management has given freedom to the Principal and the faculty to develop the academic leadership. The faculty is given a free hand to work as conveners, coordinators, secretary or members of the organizing committees of various academic events organized by the college. Teachers can also work on various academic bodies in the university or government/nongovernment organizations.

The Heads of departments are given freedom to administer their respective departments, plan and execute academic programs. Class-wise In-Charges and Post Graduate Programme Coordinators are appointed to facilitate smooth conduct of academic activities throughout the year and monitor the overall progress of the students.

There are “Departmental Committees” to take all the necessary steps for successful implementation of the academic plan and provide the feedback in the Forum of Arts and Science Heads. The faculty members are allowed to participate in and contribute to the deliberations. In addition to the above, there are “Advisory Committees” for Self Financing Programmes, comprising of Members of the Management and teachers, which help in planning the academic activities.

6.1.6 How does the college groom leadership at various levels?

The college grooms leadership at three main levels: teaching faculty, students and administrative and support (non-teaching) staff levels. The procedure adopted for creating leaders at different levels is described below.

- Identify various activities / tasks to be implemented for every academic year according to the perspective plan of the institute.
- Circulate the list of activities / tasks amongst the faculty, staff and students.
- Involve the members in the college activities of his / her own choice.
- Assign responsibilities by providing freedom and necessary support for implementation.
- Appreciate the innovative ideas and leadership qualities shown by members.

College authorities appoint the head of the department to take up the role of departmental administrative and academic head. In addition, the head is also given the responsibility of handling some of the administrative tasks at the college level. All teachers take various curricular, extracurricular and administrative responsibilities in rotation. Periodic capacity building as well as faculty development programs also help them to sharpen their management skills.

For administrative and support staff, some training workshops for overall developmental skills are arranged. Training for effective use of ICT and ERP is usually conducted through some professionals. College sends the office/library staff for relevant training to meet the changing requirements of the administration.

The student leadership is groomed through the students' council which is formed every academic year. For every class, a class representative is selected. All class representatives are members of the council. They elect one student as College representative for university representation. He also works in coordination with the Principal for planning and implementation of annual festivals and extracurricular activities. Many co-curricular and extra-curricular activities of the college are planned and executed with the help of students including seminars, workshops and conferences.

6.1.7 How does the college delegate authority and provide operational autonomy to the departments / units of the institution and work towards decentralized governance system?

Decentralized governance system is a key aspect of democratic governance for the development and utilization of human potential. For the development and governance to be fully responsive and representational, the authorities have appointed and empowered the Vice Principals and Heads of the department and provided administrative as well as academic autonomy for effective governance.

The administrative matters of the Arts and Science faculties are looked after by four Vice-Principals. They have adequate autonomy on a number of matters such as preparing admission schedule as well as setting up committees for different classes, designing and evaluation of internal examination schedule and pattern, and other administrative and academic matters.

Under the supervision of the Principal and Vice-Principals, the college provides autonomy to the heads of the department. Academic planning, assignment of workload to teachers and non-teaching staff are done at the departmental level by Heads of the department. Each department plans and organizes the academic activities related to their subject. Department is given freedom to frame time table for the practicals, identifying and inviting visiting faculty or Guest speakers, assigning projects, deciding the theme for workshops and seminars. Delegation of power to sanction leave of the staff and utilization of the allocated budget as per the requirements are also looked after by the heads of the department.

The college has formulated various committees to facilitate smooth functioning and conduct of all the activities in the college. The roles and responsibilities of the committee members are well defined. Each Committee has a "Coordinator"/ "Convener" who co-ordinates the

meetings/ proceedings of the work of the committee including assigning responsibility to every Member of the Committee. The “Coordinators”/ “Conveners” of various Committees provide a brief review of the activities of their committees to the Principal.

In addition, the distribution of office administrative work and monitoring is handled by the Registrar of the college along with the college authority. The Principal then ensures that this information is available for the Management to review the activities of the college. This is an important step in aligning the activities of the college with the Institutional Vision and Mission.

6.1.8 Does the college promote a culture of participative management? If ‘yes’, indicate the levels of participative management.

Yes, the college is committed to a culture of participative management. The Principal, Vice-Principal, Registrar and IQAC coordinator is responsible for academic and administrative leadership of the college. The Principal meets twice in a month with Heads of departments and Vice Principals to discuss academic or administrative issues. The IQAC meets periodically to discuss the points related to the quality policy and plans.

The apex decision making body at College level is the Local Managing Committee (LMC) of Deccan Education Society. The LMC has representatives from teaching as well as non teaching staff. All the issues regarding academics, administration and enhancement of infrastructure, sanctioning of sabbatical/ study leave etc., are decided by the LMC.

The IQAC also includes faculty members along with members from the society for the policy / plan formulation and its implementation. Faculty members from IQAC play an active role in the management of academic activities of the college. Students actively participate in various curricular, co-curricular and extra-curricular activities.

Faculty members participate in the management process not only through the LMC, but are also part of the Board of Life members and on the Governing body and the council of Deccan Education Society. The stakeholders are given highlights of the achievements and activities during the annual general meeting of DES.

6.2 Strategy Development and Deployment

6.2.1 Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?

Yes. The college has a distinct quality policy oriented towards achieving the goals and mission. The IQAC has revised and reviewed the quality policy through the involvement of stakeholders. The “Quality Policy” of the college is driven by the teaching and non teaching staff of the college and also by our students.

The deployment of “Quality Policy” is channelized through:

- Providing motivation, encouragement and appreciation to the teachers for their contribution in college activities.
- Providing a platform of opportunities to enhance their competency levels.
- Taking a formal feedback on teaching-learning process of all the programmes.
- Addressing the issues related to recruitment of teachers, their workload and teaching plans for each academic semester.
- Providing special infrastructure in terms of learners’ needs.
- Supporting proactively teachers and students for establishing College-Community neighbourhood network.
- Focussing on overall development of students.

The quality policies are reviewed during the meetings of the forum of heads, IQAC and LMC. The review of the “Quality Policy” is done as per the changing needs of higher education policies.

- The “Quality Policy” focuses on”

Quality Parameter	Policy
Education	Providing an overarching frame work for developing and delivering quality education and maintaining exemplary academic standards at the entry level. Promote excellence in curriculum development by participating in designing the curriculum
Systems and Procedures	Implementation of systems and procedures through technology oriented system administration.
Academics	Augment co-curricular activities to strengthen the academic participation.
	Strengthen regular feedback system for improvement of academic performance and implementation of automation in feedback system. The analysis of feedback is made authentic by automation and generation of reports is customized by including various factors.
	Collaborate with interdisciplinary subject faculties to enhance the quality of academic and research contents.
Learning Resource	Automation of learning resources to facilitate enhanced participation of students and teachers. Extension of working hours which would give flexibility for utilization of facilities.
Research	Allot substantial grant for nurturing research talents among students and teachers
	Set higher goals and give an ideal platform to unleash creativity for attaining greater standards of innovation.
	Support students and teachers for all their research endeavours.
Infrastructure	Mobilize resources and create/ renovate present infrastructure and relocate spaces for academic and administration for congenial teaching-learning facilities.
Environment	Open environment to share resources and views and improve teaching-learning on the campus
Inclusive Learning	Special support for differently abled students to cater to their special needs.
Value Education	Inculcate moral and ethical values among staff and students.
	Aim at preparing global citizens that are physically strong, mentally alert, intellectually sound, socially balanced and spiritually elevated.
Institute Social Responsibility	Collaborative efforts with NGOs/ Civil Societies for active participation in social activities and contribute towards nation building.

6.2.2 Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.

Yes. The college has a perspective plan of development which was developed a few years ago. This plan has been reviewed as per the needs of learners and in keeping with the higher education policies of the nation. The aspects considered for inclusion in the plan are as follows:

- Growth in terms of academic programmes that focus on skill based education. e.g. Bachelor of Vocation (B.Voc.) in Media and Communication as well as in Digital Art and Animation.
- Need for strengthening core/traditional subjects.
- Formalize “Systems and Procedures” and “Policies” for research, infrastructure etc., communicate them to stakeholders and implement them.
- Development of in-house softwares for storing and retrieving information required in terms of teaching quality and departmental databases.
- Automation of library services and digitization of very old manuscripts.
- ICT is now playing a key role in information dissemination and is a basic requirement for every learner. Creation of ICT zones/internet facility in the Central Library.
- Promote extensive use of ICT in all academic and administrative transactions.
- Deployment of solar powered electricity supply to reduce the dependence on mains grid.
- Awareness campaigns for zero waste campus model, e-waste management, energy audits, safety audits, addressing gender issues and aligning our activities with social needs.
- Renovations of old heritage buildings and refurbishment of Science laboratories.
- Upgrading the physical infrastructure in terms of water resources, power supply and modifications/ repairs. Maintenance of laboratory working tables and storage facilities in the laboratories for students.
- Strengthening the Science laboratory through purchase of new laboratory equipment and ICT facilities.

6.2.3 Describe the internal organizational structure and decision making processes.

The internal organizational structure is as follows:

Deccan Education Society is the parent body of the Fergusson College. For the management of all the matters connected with Society, there are four bodies: the Council, the Governing Body, Trustees and the Board of Life-members.

Local Management Committee: At the college level, the Local Managing Committee is constituted according to the Maharashtra Universities Act of 1994. All other committees are given responsibility to look into the management of various parts/matters of the college.

The Principal of the college heads both the academic as well as the administrative sections and is overall in charge of the college. **Vice Principals** are appointed to assist the Principal in smooth functioning of the administrative system and smooth conduct of academic programs.

The college office mainly looks into matters related to admissions, eligibility, and examinations. It also provides clerical support required for maintaining records and for interaction with government, university, parents and students.

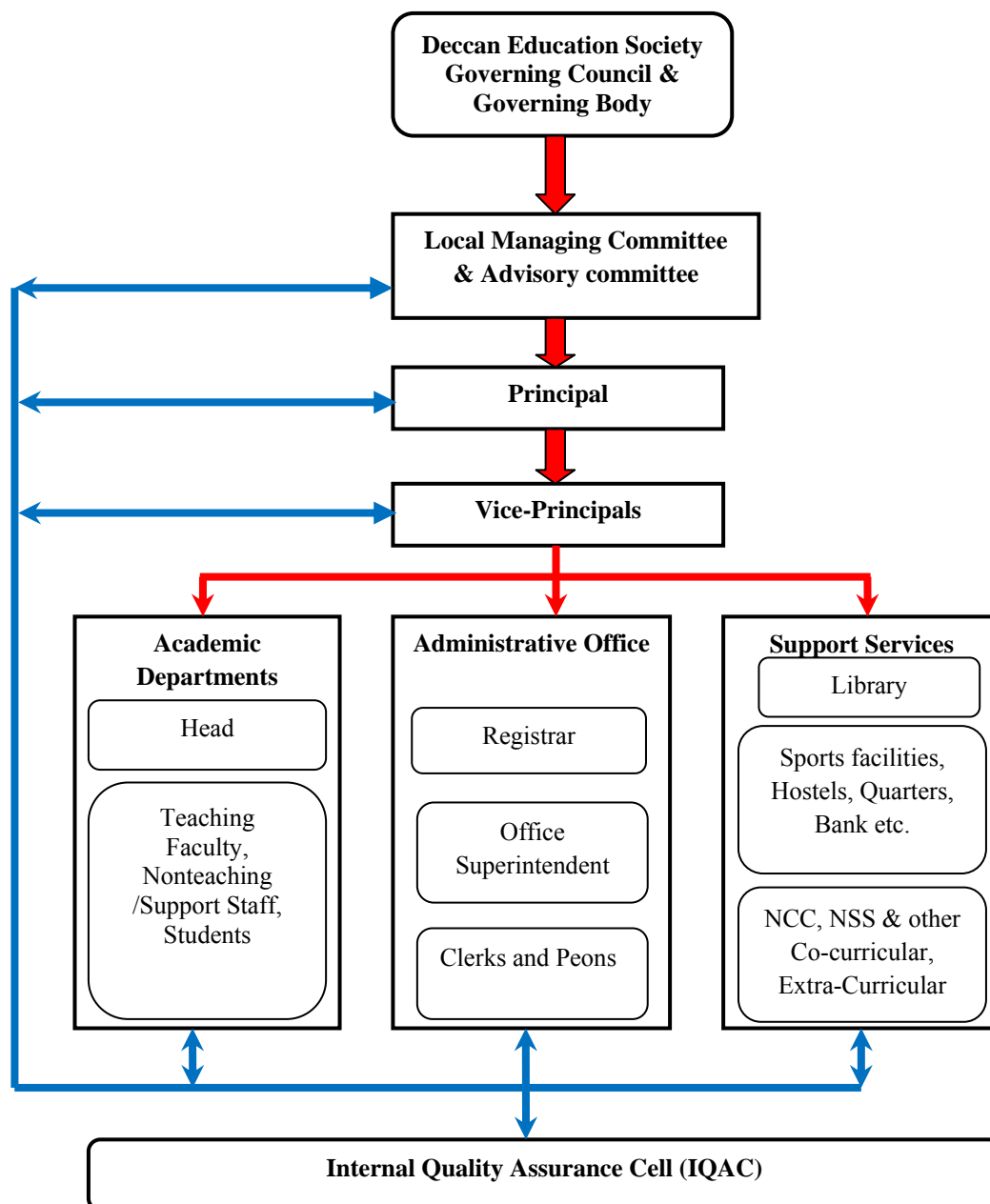
Various committees in the college help in monitoring and facilitating several administrative functions and thus make administration open and transparent. The decentralization of power is evident from these committees, some of them are statutory and the others non-statutory in nature. The list of committees is given below:

- Admission Committee
- Anti-Ragging Committee
- Committee for Prevention of Sexual Harassment
- Committee for Earn and Learn Scheme
- Examination Committee
- Forum of Arts and Science Heads
- Grievance Committee
- Gymkhana Managing Committee
- International Students' Cell Committee
- Internal Quality Assurance Cell
- Research Coordination Committee
- RTI Cell
- Student Council
- Time Table Committee
- UGC XII Plan- Planning Board

Internal Quality Assurance Cell: The IQAC has to ensure that whatever is done in the institution for “education” is done efficiently and effectively with high standards. In order to do this, the IQAC has to establish procedures and modalities to collect data and information on various aspects of institutional functioning.

The Coordinator of the IQAC and the Secretary have a major role in implementing these functions. The IQAC derives major support from the already existing units and mechanisms that contribute to the functions listed above. The operational features and functions discussed so far are broad-based to facilitate institutions towards

academic excellence and institutions adapt them to suit their specific needs.



6.2.4 Give a broad description of the quality improvement strategies of the institution for each of the following:

- Teaching and Learning**
 One of the strategies for quality improvement in teaching and learning is to make the learning more student-centric. The IQAC frequently collects and analyses the feedback of students on the quality of teaching-learning and provides some suggestions for the improvement. Other initiatives to improve the quality of teaching-learning processes in the college are as follows:

- (a) Providing LCD projector in Science Laboratories for demonstrations - Enhanced learning infrastructure
- (b) Internet facility for students
- (c) Exposure of Students to short term projects.
- (d) Concept of “Add-On” practicals for some basic science subjects that focus on skill enhancement of the student.
- (e) Guest lectures / Seminars/ workshops for students.
- (f) Integration of field studies with practicals.
- (g) Faculty development through training at Centres of Higher Learning and Excellence
- (h) Facilities like INFLIBNET for teachers.
- (i) Platform for interaction with Industry

- **Research and Development**

Fergusson College has 16 post-graduate programs in Arts, Basic and Applied Sciences. One of the important strategies of the college is to identify the **budding researchers** from teachers and the students and provide the resources as well as seed money to implement their research ideas.

Other initiatives to improve the quality of research and development in the college are as follows:

- (a) Setting up nine Recognized research centres – M.Phil. and Ph.D. degree
- (b) Assigning specific roles and responsibilities to the Research Coordination Committee (RCC) to look after all matters related with research and Ph.D. admissions.
- (c) Generating awareness amongst the researchers and providing support related to various proposal formats of different funding agencies, budget, purchases of equipment and material under research schemes, account and audit of project expenditure, any additional infrastructure requirements of the researcher etc.
- (d) Help all the teachers/ researchers in understanding recent updates of their publications in terms of citation index, h-index, etc.,
- (e) Looking after the Central instrumentation facility for all researchers (high end instruments)
- (f) Collaborating/partnering with research institutes/ laboratories like National Chemical Laboratories, Indian Institute of Science Education and Research, Agharkar Research Institute, National Centre for Cell Sciences, University departments etc., for student projects and teacher projects.
- (g) Partnering with industries such as Quick Heal, Spring Computing etc., for live projects.

- **Community Engagement**

The vision of the founders of the college is the torch bearer for all the teachers and students – viz. using the power of knowledge for the benefit of society. The college always looks for opportunities to modify and improve the extra-curricular/extension activities for the benefit of the community. Some of the initiatives in this direction are as follows:

- (a) Establishment of “Social Outreach Centre” dedicated for conducting and addressing social issues and community networking.
- (b) Learning about communities and social issues through field based surveys.
- (c) Providing necessary support in terms of infrastructure and finance for such kind of engagements.
- (d) Publication of reports based on surveys and audits.
- (e) Collaborate with NGOs for community engagement.

In addition the NSS unit organises a winter camp in a nearby adopted village. As a part of the camp, students conduct surveys related to rural development, drinking water, health, girl-child education, socio-economic studies etc. Students from NCC, NSS and other volunteer groups conduct several programmes for the benefit of the society like Blood donation camp, Aids awareness, Gender sensitivity, Anti-ragging etc.

- **Human Resource Management**

The success of any organization is dependent on the quality of the Human Resources. College management has given priority to identifying persons with exceptional qualities and giving them opportunities to maximise their performance to meet the strategic objectives. The DES has their separate HR management section that typically looks after the recruitment, training, development, performance appraisal and rewarding.

- (a) About 112 sanctioned posts of teaching and 120 posts of non-teaching staff have been filled in.
- (b) Recruitment is in compliance with UGC, University and State Government rules.
- (c) Regular performance appraisal of teaching and nonteaching staff is done.
- (d) Training is arranged for teaching as well as nonteaching staff.

- **Industry Interaction**

To bridge the gap between theory and practice, Industry-Interaction cell has been established by the college as a part of quality improvement strategy. Some of the initiatives in this direction are:

- (a) Regular interactive sessions with industry / experts for understanding industry needs.
- (b) Face to face / Panel discussions between the students, teachers and industry experts to know the current scenario and recent developments in particular industries (especially for computer science and life sciences).

- (c) On-Site visit to industries to understand the process followed in the industry.
- (d) Facilitate activity of working on live projects for computer science students.
- (e) Guest lectures/ special courses for students with the help of Industry experts.

6.2.5 How does the Head of the institution ensure that adequate information (from feedback and personal contacts etc.) is available for the top management and the stakeholders, to review the activities of the institution?

The Principal ensures that adequate information is communicated to the top management and stake holders. The Principal collects information through various meetings like forum of heads, IQAC, as well as from the minutes of meetings of different statutory/non-statutory committees. This information is placed before the local management committee of the college.

The college uses the data and information obtained from the feedback in decision making and performance improvement. This is obtained through questionnaires given to students and staff members of the college on academic as well as on campus experience. A team of teachers takes review with reference to requirements of every department and gives a feedback to the Principal, who presents this to the LMC for appropriate action. Developments in the college are also communicated to the parents and alumni during their meetings.

Suggestion Boxes are placed at prominent locations in the campus. This is a continuous source of suggestions for improvement of infrastructure and services. The concerned sections/departments/persons are informed about their feedback for improvement or for encouragement and appreciation.

6.2.6 How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?

The staff is entrusted the responsibility for different tasks such as college admissions, examinations, document verifications, form collection for scholarships, Rail/bus concessions as well as handling the university/government correspondence. In addition to the involvement of faculty members in the various academic and administrative committees, there is always a representation and support of the non-teaching staff for all these activities.

Based on the annual performance, the best teacher as well as best non-teaching staff awards are given every year. The teaching and non-teaching staffs are always felicitated for any special achievement during staff meetings.

6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.

Details are provided in Annexure VI (A).

6.2.8 Does the affiliating university make a provision for awarding the status of autonomy to an affiliated institution? If ‘yes’, what are the efforts made by the institution in obtaining autonomy?

Yes.

The affiliating University makes a provision for granting “Autonomous” status to affiliated colleges. The details of communication with the University regarding grant of autonomy are as follows:

1	30 th October, 2006	First proposal	Fees of Rs. 25,000.00
2	2 nd February, 2008	Second Proposal	-----
3	28 th October, 2010	Revised Third Proposal	-----
4	27 th April, 2013	Revised Proposal as per UGC XII Plan format	-----
5	10 th July, 2013	-----	Fees of Rs. 31,250.00

Based on the proposal submitted on 27th April, 2013, the University formed a “Committee”, which visited the college on 27th and 28th September, 2013. The Committee interacted with teaching and non teaching staff, members of the management, students, alumni and parents. The report of the committee has been submitted to the University on 04/10/2013 for necessary action.

The college has made preliminary preparations for autonomy with regard to restructuring the syllabi of all first year Undergraduate and post graduate programmes. A tentative list of Members of “Board of Studies” has also been prepared.

6.2.9 How does the Institution ensure that grievances /complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder relationship?

The Governing Body formed a committee to address grievances /complaints and resolve them. This committee addresses grievances of both teaching and non teaching staff. The mechanism to handle grievances by the Grievance Redressal Committee is:

- (a) Receive the grievance from Head of the Institute.
- (b) Take cognizance of the grievance(s).
- (c) Settle the grievances within six months.
- (d) Report it to the Management.

6.2.10 During the last four years, had there been any instances of court cases filed by and against the institute? Provide details on the issues and decisions of the courts on these?

Yes. There has been a court case. The details are as follows :

Sr.No.	Name of the Employee	Case Details and Status
1	Shri. Anant Shripad Nanajkar, Department of Mathematics	<p>Shri Nanajkar was appointed against ST category. Shri. Nanajkar filed appeal in the University Grievance Committee and also filed writ petition no. 3796 in the year 2000.</p> <p>Appeal No. 40/96 – order: Shri Nanajkar be continued under yearly orders till reserved class candidate is selected.</p> <p>Writ No. 3796/00 – Nanajkar was seeking absorption in the reserved post on the basis of GR dated 5.12.94.</p> <p>As per the order of Hon’ble High Court Management presented de-reservation proposal to Government. Government refused to de-reserve the post.</p> <p>Appeal 3109 (D): Hon’ble Tribunal again stuck by the order passed by Hon’ble Tribunal in 40/96 and the writ petition No. 3796/00 and directed Secretary Higher and Technical Education, Mantralaya Vistar Bhavan to ensure that the proposal pending with the Government be disposed off as early as possible.</p>

6.2.11 Does the Institution have a mechanism for analyzing student feedback on institutional performance? If ‘yes’, what was the outcome and response of the institution to such an effort?

Yes. The college IQAC has designed a feedback form on teaching. This feedback is taken at the end of each semester and for all the programmes. There is a well established mechanism to implement this activity. The parameters on which the teachers are assessed are:

- (a) Science Teachers are assessed on the parameters of Communication Skills, Quality of teaching, Content and Method of Delivery, Resourcefulness and Readiness, Accessibility and Availability to students.
- (b) Arts Teachers are assessed on the parameters of Communication Skills, Regularity, Completion of Syllabus, inputs beyond the syllabus and Accessibility and Availability to students.

- (c) From the academic year, 2014-2015 computer science teachers have devised a software for the purpose. In the first phase, the on-line Feedback system has been deployed for all science programmes.
- (d) After the feedback, the report that is generated is analysed by the IQAC. The IQAC then arranges an interaction meeting with the teachers and seeks improvement in their classroom performance.
- (e) IQAC has been taking feedback from teachers on various aspects like performance of the various Committees, suggestions for improvement in the “Teachers’ Diary”, reviewing the requirements (with regard to infrastructure in general, equipments etc.,) that has helped in avoiding duplication of facilities and has also helped in maintenance of instruments/ equipment.
- (f) The forum of Arts and Science Heads is the nodal body for implementing any academic activities. Feedback cum discussion is carried out during meetings with reference to preparation of academic calendar, activity calendar, commencement of examinations (internal), formation of practical batches and filling up of information required by various State Government agencies.

6.3 Faculty Empowerment Strategies

6.3.1 What are the efforts made by the institution to enhance the professional development of its teaching and non-teaching staff?

The institution makes deliberate efforts for enhancing professional skills amongst its teaching and non teaching staff. This is achieved by organizing In-House training programmes for teachers as well as deputing teachers for training at Centres of Higher Learning and Excellence. This has been a routine practice of the college Administration and Management. The college grants special study leave for teachers who wish to avail training programmes at various institutions/centres/universities and Research Laboratories.

The details of faculty development programme(s) organized and conducted by the college and details of faculty participation at various institutions/ centres/ universities and Research Laboratories are as follows:

In-House Faculty Development Programmes:

	Title of the Programme	Organized by	Beneficiaries
1	Bahi Shal Annual Lecture Series	Department of Economics, Fergusson College; 5 th February to 13 th February, 2014	100 teachers
2	Lecture Series on Challenges and Issues of Present System of Administration of University Affiliated Colleges	Department of Economics, Fergusson College; 19 th August to 02 nd September, 2014	All the Heads of Department and Staff members (Teaching and Non Teaching)
3	Science Academies Lecture Workshop Programme on Nanotechnology: Energy and Health	Department of Physics, Fergusson College and Indian Academy of Sciences, Bangalore, Indian National Science Academy, New Delhi and The National Academy of Sciences, Allahabad; 10 th and 11 th October, 2014	50 Teachers from Electronic Science, Computer Science, Physics, Chemistry and Life Sciences.
4	Training Session on ERP (Enterprise Resource Planning) software	Department of Computer Science, Fergusson College; 13 th December, 2011	19 teachers (Arts and Science)
5	One Day Seminar on Intellectual Property Rights and Patents	Department of Physics, Fergusson College; 26 th November, 2011	50 teachers (in house teachers and teachers from other colleges)
6	UGC sponsored workshop on "Capacity Building" for Heads of Department	IQAC, Fergusson College; 18 th to 20 th April, 2011	26 Teachers (Arts and Science)
7	In-House, Teachers' Training Programme (Model For Arts and Science Teachers)	IQAC, Fergusson College; 18 th to 25 th October, 2012	25 teachers (Arts and Science)
8	Three Days Workshop on 'Electronic Systems in Automotive' (Under UGC XI Plan)	Department of Computer Science, Fergusson College; 27 th to 29 th January, 2012	All teachers (Computer Science and Electronic Science)
9	Workshop on 'Holistic Healing: A Journey to Optimal Wellness'	Department of English, Fergusson College; 8 th and 9 th March, 2012	Teachers and Students
10	Use of SPSS Software	Department of Statistics, Fergusson College; 4 th January, 2012	
11	In-House Library Software Training Programme	Department of Computer Sciences, Fergusson College; 12 th March, 2013	17 teachers (Arts and Science)
12	In-House Website Faculty Training Programme	Department of Computer Science, Fergusson College; 28 th February to 2 nd March, 2013.	42 teachers (Arts and Science)

Faculty Development programmes at Centres of Higher Learning and Excellence:

	Title of the Programme	Organized by	Beneficiaries
1	Three Day Training Programme on Bibliometrics and Research Output Analysis	Information and Library Network Centre Gandhinagar; 30 th July to 1 st August, 2014	02 (Bai Jerbai Wadia Library)
2	National Workshop on Learning To Teach For New College Teachers	TQMS, Christ University, Bangalore; 26 th to 29 th August, 2013	02 teachers (01 Psychology and 01 Chemistry)
3	2 nd Winter School on Digital Image Processing	National Institute of Technology, Rourkela; 10 th to 16 th December, 2012	02 (Department of Computer Science)
4	Academic and Research visit under German Academic Exchange Service (DAAD)	Department of Intercultural German Studies, Georg August University, Gottingen, Germany; 1 st April to 30 th June, 2013	01 (Department of German)
5	Three days intensive workshop on “Microscopy for Life Science” (Advanced Module)	Venture Centre, National Chemical Laboratories, Pune; 12 th to 14 th January, 2012	01 (Department of Biotechnology) 01 (Department of Microbiology) 02 (Department of Zoology)
6	Faculty Development Programme on Data Mining	Allana Institute of Management Studies, Pune; 16 th to 20 th January, 2012	02 (Department of Computer Sciences)
7	Visiting Fellowship Programme	Jawaharlal Nehru Centre for Advanced Scientific Research, Chemistry and Physics of Materials Unit; Bangalore; 1 st to 30 th November, 2013 and 01 st May to 30 th June, 2014	01 (Department of Physics)
8	Visiting Fellowship Programme	Jawaharlal Nehru Centre for Advanced Scientific Research, Chemistry and Physics of Materials Unit; Bangalore; May to June, 2014	01 (Department of Physics)

The college is the IUCAA node for Astronomy and Astrophysics Development (INAAD) and various workshops/ seminars are organized by the college in collaboration with IUCAA.

6.3.2 What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?

The institution is committed to excellence and this forms the core of all its initiatives. The college has identified the importance of faculty empowerment strategy for the pursuit of excellence. It follows the following strategies:

1. Collect information on the developmental needs and aspirations of the faculty/staff
2. Identify training/retraining the employees as per needs
3. Motivate them to do better in their roles
4. Reward the best performers every year.

The outcome of these strategies resulted in the following outcome during the last 5 years:

- (a) Organization of faculty development workshop/ special training programme for teachers and heads of the department.
- (b) A special “One Week In-House Orientation” or Induction programme for newly recruited teachers. Experts from academics are invited for interaction with the teachers. Members of the management and the Principal also conduct sessions during this programme.
- (c) The college maintains a strong network with premier institutes like National Chemical Laboratories, National Centre for Cell Sciences, Inter University Centre for Astronomy and Astrophysics, National Institute of Virology, Agharkar Research Institute and Indian Institute of Science Education and Research. Students of post graduate programmes work with these institutes for their projects. Teachers are also involved in these activities and the collaborative effort for research is strengthened.
- (d) Infrastructure is provided to the teachers for carrying out research work and they are encouraged to procure grants from different funding agencies like UGC, DST, ISRO, BCUD etc. for the purpose.
- (e) Meetings, informal discussions, interaction between teachers of different disciplines, interdisciplinary seminars and conferences motivate the teachers about their roles and responsibilities.
- (f) Faculty members are granted duty leave / special study leave for participating in Orientation / Refresher / Training programmes/ courses as a part of retraining programme for their professional development.

6.3.3 Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal.

The college follows the “*Performance Based Assessment System*” (PBAS) of UGC as prescribed in its regulations of June 2009. The university has developed an “Academic Performance Indicator”(API) system which is based on PBAS System developed by the UGC.

The college IQAC addresses all the issues related to appraisal system of the staff and regularly evaluates it and then forwards it to the University authorities for final validation of API Scores.

The API is divided into three categories:

Category I: Teaching, Learning and Evaluation related activities:
Max. Score 125

Category II: Co-curricular, Extension and Professional Development related activities: Maximum Score 50 and

Category III: Research, Publications and Academic Contributions: No Maximum Score defined.

At the beginning of the academic year, every teacher submits his/her duly filled PBAS+API along with supporting documents to the IQAC. The IQAC scrutinizes and assigns scores under various categories. These scores are compiled and presented to the University authorities at the time of its validation under Career Advancement Scheme (CAS).

The IQAC of the college has developed a well defined mechanism for collecting this information, scrutinizing it and storing it. It also acts as a guidance cell for all queries regarding the API system.

The teacher's diary developed by the IQAC gives clear information of all academic, co-curricular and extracurricular contributions of a teacher. This diary is assessed at the end of each academic term and the information is consolidated in the form of Academic Audit.

6.3.4 What is the outcome of the review of the performance appraisal reports by the management and the major decisions taken? How are they communicated to the appropriate stakeholders?

The outcome of the review of PBAS+API for all teachers leads to a better understanding of

- (a) Role of a teacher and his/her contribution to the development of the Institution/ College.
- (b) Use of teaching methods/ methodology followed in the teaching, aids used in teaching, quality of course material and conduct of lectures and practicals (term wise)
- (c) It also focuses on the research calibre of the teacher, which is evident through types and number of research projects, quality of research publications/ patents etc.,

In addition, the heads of the department fill up the confidential report of every faculty member and forward it to the Principal. The Principal authenticates the report and forwards it for necessary action in case of poor performance.

A final report on the appraisal process for each teacher is communicated to the Principal/ Management who jointly take a decision on whether the case has to be forwarded to the university or withheld under Career Advancement Scheme.

6.3.5 What are the welfare schemes available for teaching and non-teaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?

There are welfare schemes available for teaching and non-teaching staff, which are as follows:

- (a) A co-operative society (Patapedhi) on campus is run by the teaching and non-teaching staff members for meeting the necessary financial

needs. Till date, 150 teaching and 150 non teaching staff are members of the cooperative society. 250 members have availed financial assistance.

- (b) Facility of Group Medical Insurance apart from EPF and gratuity fund is available for the confirmed staff of the non-grant unaided section.
- (c) Admissions are given to the wards of teaching and non-teaching staff on priority basis.
- (d) Discounts are given in fees for the wards of needy staff members.
- (e) Staff quarters are available on the campus for teaching as well as non-teaching staff members.

6.3.6 What are the measures taken by the Institution for attracting and retaining eminent faculty?

The tradition of excellence fostered by the college and its glorious heritage are a major source for attracting prospective faculty members. Besides, the college has consistently found a place amongst the Top 10 Colleges in the country (*India Today* rankings). The vacancies are advertised in College as well as on the DES website and in local newspapers. The college has a well-defined recruitment policy within the framework of the UGC and State Government norms. For self-financed programmes well qualified and meritorious faculty are recruited and retained by paying salaries as per UGC scale.

Retaining the faculty members is never a problem for the management due to the DES/Fergusson family relationship. All the faculty members are given academic autonomy. The ambience, vibrant student population, work culture, freedom, the opportunity to explore, good academic and research infrastructure are some of the distinctive characteristics of the college. The college recognizes individual achievements or contributions and provides all the support and motivation needed for them to develop further.

6.4 Financial Management and Resource Mobilization

6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?

The college is managed by DES. DES has a well formulated financial policy, which ensures that every year the budget is prepared well in advance after taking into consideration the requirements of every institute and department. Every department is expected to provide a list of requirements such as equipment, computers, instruments as well as consumables required for the next academic session. Budget is reviewed by a team of finance experts from DES who approve the same after necessary changes and if necessary DES makes a provision for advance/ additional funds wherever needed. The Principal and Life Member (LM) accountant are in charge of managing the financial resources effectively.

The planning board and the LMC work on the requirements and decides the priorities while allotting financial resources. Funds are allocated on priority basis for various purposes. The finance committee ensures the optimum use of the available financial resources. The LMC and finance committee studies the annual expenditure, scrutinizes the budget and provides feedback for efficient use of financial resources. Before making major purchases of equipment/computers, a technical team verifies the availability and functioning of similar equipment in other institutes of DES/departments of the college before recommending the purchase. A purchase committee ensures that the correct equipment with the right specifications is procured at the best prices.

6.4.2 What are the institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance.

Fergusson College is under DES and DES has its own internal auditors. They regularly audit the documents of Fergusson College. Internal audit of the college is carried out by the DES central office whereas the external audit is conducted by the finance committee of the DES with the help of external experts.

External audit is done every six months. The last Internal Audit was done in May 2014 and External Audit was done in June 2014 for the period 01.04.13 to 31.03.14. The observation made by the external auditor and the compliance provided is as follows:

Sr. No.	Observation	Compliance
1	Information regarding workload, admissible and actual teaching staff	The information was furnished in the required proforma.
2	Inadmissible casual leave given to the teaching staff	As per Maharashtra Universities Act, 1994 Section 203(1-a) maximum casual leaves for teaching staff are 15.
3	Utilization of Grants (UGC/DBT etc.)	Information was furnished as per the proforma
4	Non Obtaining of Service Agreements from employees	Compliance provided (Circular copy)
5	Regarding Women's Hostel	College has not applied to UGC for construction of Women's' Hostel.
6	Irregular payment of tree tax of Rs. 1,48,095.00 to Municipal Corporation, Pune	College has paid excess tree tax, which has been conveyed to PMC, Pune and also conveyed a request to adjust the same in the tax bill for the next year.
7	Furnishing information regarding students enrolled for aided as well as unaided courses for five years (2009-10 to 2013-14)	Information was furnished as per the proforma.

8	Furnishing information regarding teachers' minimum qualification (NET/SET/Ph.D.)	Information was furnished as per the proforma.
9	Non Assessment of salary grant by the Joint Director, Pune since 1996-97 till date	Salary assessment is certified by Joint Director Office, Pune. However, salary assessment has not been received by the college as yet.
10	Furnishing record and number of courses discontinued after providing infrastructure and man power	No courses/ programmes have been discontinued
11	Procurement of Equipment of Rs. 115.5 lakhs under UGC grant	Purchases are made through Central Purchase Committee of DES, Pune. For purchases made under UGC/DST the guidelines are followed, the recommendations of AG Audit II have been forwarded to Central Purchase Committee of DES, Pune for further information and necessary action.
12	Irregularities in the maintained dead stock article register	Dead stock article register is maintained and updated by individual departments. Henceforth a consolidated report of dead stock articles will be prepared and verified by the Office.
13	No verification of Library	Presently, stock verification, library automation, bar code pasting is in process and will be completed in the near future. A report will be submitted in due course of time.
14	Irregular Payment of Transportation allowance of more than Rs.7.49 lakhs to teaching staff	The TA has been paid as per the directives of Joint Director, Higher Education, Pune. Copy has been attached.
15	Unpaid scholarship of Rs.1131649.00	The Scholarship amount was released late by the Government Agency. The college has made efforts to disburse the amount of scholarship to students. By the time the scholarship amount was released from the Government, the students completed the course. As per rules regarding scholarship disbursement to students, the amount was kept with the college for three years (2010-11, 2011-12 and 2012-13). However, the undisbursed amount will be returned to the District Social Welfare Officer.

6.4.3 What are the major sources of institutional receipts/funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund/corpus available with Institutions, if any.

The major source of institutional receipts is the grant in aid received from the state government for salary and non-salary expenditure of Grantable section. The college is also entitled to utilize some part of student fees as per rules for meeting routine non-salary expenses. For self-financed courses the major source of receipt is Students' Educational Fees and the deficit is managed by DES. College also receives UGC plan development grants for several co-curricular and extra-curricular activities and instruments, books and journal purchases for UG and PG.

The audited income and expenditure statements of academic and administrative activities for each of the previous four years is available and can be examined during the Peer Team Visit. The statements are too large and do not fit into the format of the SSR. Reserve fund/Corpus Fund is maintained with DES.

6.4.4 Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any).

Apart from the regular sources of income, the college explores alternative sources of additional funding. The college IQAC plays a proactive role in writing proposals for funding to various agencies under different schemes.

The additional funding has been obtained from/ under:

Sr. No.	Name of Scheme/ Grant	Amount (Rs.)
1	UGC XI Plan: General Development Assistance Grant for Colleges	60,39,695.00
2	UGC XI Plan: Jubilee grant for renovation	50,00,000.00
3	UGC XI Plan: Rejuvenation grant for renovation of old infrastructure	18,58,461.00
4	UGC XI Plan: Additional Financial Assistance	25,00,000.00
5	UGC XI Plan (Organization of Conferences)	3,55,000.00
	UGC XI Plan (Grants for development of Sports Infrastructure)	4,50,000.00
6	UGC XII Plan- General Development Assistance	62,00,000.00 (On Account Adhoc Grant)
7	UGC XII Plan- Conferences and Seminars	3,30,000.00
8	UGC-College with Potential for Excellence (Major /Minor equipments; ICT support for Science Laboratories/ Teachers' training/ Library automation, student activities/ MIS for office/ Environment related activities)	1,40,00,000.00
9	UGC- Basic Scientific Research Grant	88,00,000.00
10	UGC- Grant for Reaccredited Colleges with "A" Grade	10,00,000.00

11	UGC- Bachelor of Vocation (B. Voc degree programme)	60,00,000.00
12	Department of Science and Technology- DST-FIST Scheme	59,50,000.00
13	Department of Science and Technology- Department of Biotechnology- STAR College Scheme	44,00,000.00
14	National Archives of India, Ministry of Culture, Government of India, New Delhi (for preservation and Conservation of very old manuscripts-digitization)	5,00,000.00
15	SPPU- Quality Improvement Programme (Organization of conference/ lecture series/ workshops for students/ syllabus design/ office and laboratory equipment and sports infrastructure)	9,92,000.00
16	SPPU- For Sports infrastructure	2,82,000.00
	Total	6,46,57,156.00

• **Research Schemes/ Projects**

	Funding Agency	Amount (Rs.)
1	UGC Minor research projects	32,16,000.00
2	UGC Major Research projects	9,80,500.00
3	SPPU- BCUD, research projects	62,19,000.00
4	ISRO- Major research project	16,00,000.00
5	Volkswagen- Minor research project	2,00,000.00
	Total	1,22,15,500.00

6.5 Internal Quality Assurance System (IQAS)

6.5.1 Internal Quality Assurance Cell (IQAC)

- a. **Has the institution established an Internal Quality Assurance Cell (IQAC)? If 'yes', what is the institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance processes?**

Yes.

The college has established an Internal Quality Assurance Cell (IQAC) on 15/09/2004. The college IQAC has played an instrumental role in designing/ framing and implementing the policies of the college.

The institutional policy with regard to quality assurance is as follows:

- Motivation and appreciation of teachers to develop professional skills and encourage them to conduct research.
- Develop and follow innovative teaching methods with reasonable use of ICT.
- Involve in co-curricular and extra-curricular activities and contribute to overall development of students.

- (d) Sharing of resources and infrastructure for their optimal utilization and disintegrate conventional subject boundaries.
- (e) Follow systems and procedures to improve institutional processes.
- (f) Consistent efforts to mobilize resources, which would enhance the overall quality of the institution.

The above stated institutional policy has contributed in the following ways:

- (a) Effective implementation of systems and processes that has increased overall efficiency of institutional processes (academic and administrative).
- (b) Enhanced teacher participation in research, which is evident in the number of schemes / projects funded by various funding agencies.
- (c) Orient newly recruited teachers through in house induction programmes / faculty development programmes, which have strengthened the vision and mission of the institution.
- (d) Development and establishment of special infrastructure in terms of high end equipment, laboratory infrastructure, software, high computing machines for professional programmes etc.
- (e) Research projects (short term) for undergraduate students, which has propagated a culture of Mentor and Mentee and strengthened the student-teacher relationship.
- (f) Focus on development of e-resources and its integration in classroom teaching.
- (g) Practical Support to teachers and students in all their endeavours leading to excellence in education.

b. How many decisions of the IQAC have been approved by the management / authorities for implementation and how many of them were actually implemented?

The college IQAC and the Management interact regularly with regard to academics as well administration. There is also considerable time spent on discussing and implementing new schemes for teachers and students.

Some of the decisions approved by the management are as follows:

- (a) Implementation of teacher's diary and academic audit for all teachers
- (b) Feedback system on teaching for all programmes and recent implementation of on-line feedback system on teaching.
- (c) Major and minor infrastructural changes in science laboratories for their effective utilization.
- (d) Reformation in administrative processes with regard to special leave/ study leave, submission of research projects, settlement of accounts and auditing, purchases to be made through research schemes and other grants/ schemes, import of equipment, obtaining custom exemption from the university, liaison with custom clearing agents, vendors/ suppliers of equipments.

(e) Acceptance of specific processes followed by IQAC with special reference to scrutiny and validation of PBAS+API scores of teachers.

c. Does the IQAC have external members on its committee? If so, mention any significant contribution made by them.

Yes.

The IQAC has two external members in its composition. They are:

- (a) Prof. Madhuchhanda Banerjee, Vice Principal of St. Mira's College for Girls (Autonomous), Pune.
- (b) *Dr. Uday Kulkarni*, Head, Department of Geology, *Nowrosjee Wadia College*, Pune.

The external experts help the college IQAC in terms of understanding the concepts of academic autonomy, preparations required for autonomy, changes to be made in the administrative structure to align systems and processes. They also provide valuable suggestions for improvement in the overall functioning of the IQAC.

d. How do students and alumni contribute to the effective functioning of the IQAC?

The present students give direct feedback (although in an informal way) on the academic and infrastructural needs. This feedback is shared with the Principal and Management and has helped in enhancing their standard.

The alumni are not directly involved in the functioning of IQAC, but they do provide feedback in informal ways on several occasions (guest lectures/ seminars). These are utilized to improve the academic and administrative processes.

e. How does the IQAC communicate and engage staff from different constituents of the institution?

The IQAC is responsible for monitoring all the institutional processes. The IQAC communicates with other Statutory and Non Statutory Committees and also evaluates their performance. If need arises, the composition of certain committees is altered for achieving the objectives of the committee.

It also helps the Research Coordination Committee in disseminating information with respect to research schemes, orientation of researchers and effective operational processes. It also communicates with the Forum of Arts and Science Heads and participates in academic and administrative decision making process. Procedural and practical support to teachers is provided to teachers in any academic and administrative process/ procedure.

The IQAC also maintains a close association with Office staff and supports the office with regard to Accounts and Audit, providing data on various aspects of the college, helps in understanding the MIS of government agencies and placement of teachers in appropriate academic grade pay based on their PBAS+API.

6.5.2 Does the institution have an integrated framework for Quality assurance of the academic and administrative activities? If 'yes', give details on its operationalisation.

Yes.

The institute has an integrated framework for quality assurance and sustenance of academic and administrative activities. Internal coordination of various activities of the college is done through the forum of Arts and Science Heads. Certain issues needing wider consultations and deliberations are sorted out either in the meetings of the Advisory/ LMC.

The IQAC meets regularly to take stock of academic and administrative matters to ensure monitoring of the programmes and to ensure sustenance and enhancement of the quality of higher education as stipulated by the NAAC.

The college LMC guides in planning, monitoring and evaluation mechanisms regarding academic and administrative processes as per the Maharashtra Universities Act, 1994. Forum of Arts and Science Heads prepares the Academic and Activity Calendar at the beginning of each term/year. Internal Departmental Committees take all the necessary steps/actions for successful implementation of the plan/decisions and provide feedback to the Forum for monitoring the activities.

6.5.3 Does the institution provide training to its staff for effective implementation of the Quality assurance procedures? If 'yes', give details enumerating its impact.

Yes.

The college provides training to its staff for effective implementation of quality assurance procedures. Some of the activities are as follows:

- (a) Training related to specific use of software for library, management and uploading of content on the college website, effective use of ERP etc.,
- (b) Use of intranet server for storing department information and course material.
- (c) Training for non teaching staff with regard to laboratory procedures, safety in laboratory, yoga and health.
- (d) Faculty orientation for newly recruited teachers.
- (e) Workshops/ interactive sessions on revised guidelines of UGC and State Government with special reference to filling of PBAS and

API forms, calculation of scores and overall process followed by the college and University.

- (f) Seminars/Interaction with Experts on “Autonomy” for understanding the intricacies of autonomy and preparations in terms of formation of Board of Studies, Examination Cell and restructuring of syllabi and transforming them into Choice based Credit system.

All these steps taken by the college have helped the teachers in marching towards excellence in education, enhancing their academic growth as well growth of the college and contributed to the development of a positive attitude towards autonomy.

6.5.4 Does the institution undertake Academic Audit or other external review of the academic provisions? If ‘yes’, how are the outcomes used to improve the institutional activities?

Yes.

The college IQAC undertakes academic audit at the end of each term. External academic audits are done by agencies like LIC of University, AG audit of Central Government, NAAC peer team and special committees like Committee for grant of autonomy.

All these outcomes are thoroughly assessed by the college and IQAC and the shortcomings are addressed in a systematic manner. These audits have helped in improving our academic and administrative processes (with regard to teachers’ appraisal, student activities, addition of equipment, books and journals, infrastructure etc.). The most important ones are- (i) preparing the college for autonomy, motivating the teachers to participate in all the processes to be followed in autonomy and (ii) Writing of systems and processes, communicating them and implementing them to improve the overall functioning of the college.

6.5.5 How are the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies / regulatory authorities?

The college IQAC updates itself regularly with regard to the new mechanisms/requirements of external quality assurance agencies/regulatory bodies through their circulars/ notifications and websites. This is further studied by the IQAC and discussed with the Principal and the Forum of Heads and then implemented. These are some of the outcomes of this effort:

- Implementation of “Teacher’s Diary” and “Academic Audit”, which are used for assessing teachers’ yearly appraisal.
- Formation of committees/groups especially for implementation of schemes under UGC, DST and DBT for better utilization of funds/grants.

- Planning of academic activities like conferences/ seminars and their requirements (financial) as per the budget heads mentioned in the respective funding agencies.
- Streamlining Purchase procedure for purchases to be made under various schemes.
- Sustained efforts for going beyond the curriculum by implementing the concept of “add-on” practicals and skill development for undergraduate students with focus on strengthening undergraduate science education.
- Introduction of innovative concepts like “Learn By Doing in Lab” whereby students spend more time in the laboratory.
- Development of course material in the form of e-resources and using it for classroom teaching.
- Participative teaching methodology followed in teaching-learning process.

6.5.6 What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

The following steps are taken by the institution to review teaching learning process:

- (a) Preparation of Academic and Activity Calendar
- (b) Preparation and execution of teaching plan
- (c) Calculation of number of lectures/practicals available in each term for effective delivery of course content.
- (d) Time table preparation and daily entry of academic activities in teachers’ diary.
- (e) Periodic review of syllabus in departmental meetings.
- (f) Scrutiny and assigning of API scores at the end of each academic year.

6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders?

The institution communicates its quality assurance policies, mechanism and outcomes to stakeholders through:

- (a) General staff meetings
- (b) Forum of Arts and Science Heads
- (c) Special meetings of heads of department
- (d) Meetings with committee coordinators and other constituents of the college Office.
- (e) Notice/ Circulars/ E-mails to respective departments/ units of the college.
- (f) College website.



CRITERION VII : INNOVATIONS AND BEST PRACTICES

7.1 Environment Consciousness

7.1.1 Does the Institute conduct a Green Audit of its campus and facilities?

Yes. The college is committed to saving the environment and working towards a sustainable future. Green Audit helps in using natural resources judiciously and mapping the consumption pattern and wastage. Energy audit, water audit, waste audit, and air audit were conducted by SYBA students as a part of their environmental awareness course work in the year 2009 -10.

In the year 2014 -15, under the aegis of ‘Green Steps’ which is a part of CPE (Extension Activities) energy, water, air and waste audits were conducted by the students. The observations of all the audits were compiled into a report and submitted to the college along with immediate and long-term suggestions to increase the environment-friendly practices on the campus.

7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?

The college makes special efforts to instill environmental awareness amongst its students with the belief that environmental awareness will lead to environmental action. For developing ecological consciousness amongst students a wide range of activities such as organizing campaigns, poster exhibitions, street plays, film screenings, field visits, workshops and seminars are undertaken by the college. Efforts are also made to institutionalize some of the environmentally sustainable practices in college.

The initiatives taken by the college to make the campus eco-friendly are as follows:

Energy Conservation

- The campus street lights were replaced by CFL and LED lights to conserve energy.
- ELCB (Earth Leakage Circuit Breaker) were installed at various locations on the campus to prevent current leakage and protect other electrical installations.

Use of Renewable Energy

Solar panels were installed in Girls’ Hostel and solar grids were installed for electronic science laboratory (3KW/ 96 VDC solar grid feed PCU with inbuilt IGBT, 5.5KW and solar panels of 250W; size 2000X1000X45mm)- 12 nos.

Water Harvesting

- A model for sustainable groundwater usage for the college campus has been designed by the department of Geology. The total area surveyed was around 40 hectares. Based on hydro-geological and geophysical surveys made by the teachers of Geology, certain recommendations for harvesting groundwater have been made and are under consideration.
- Water recycling unit: A water recycling unit has been installed at the Girls' hostel.
- Check dam construction: The campus is backed by a hill to its south-west. A series of contour bunds have been built on the slopes facing the campus. An NGO called the 'Green Hills', has been working on the hill for the last decade for greening and conservation of the hill slopes and hill top. Fergusson college students take part in the activities of Green Hills.

Efforts for Carbon Neutrality

The college campus is green and every year trees are planted on regular basis. Planting trees has been one of the ways of offsetting carbon. In general CO, CO₂ emissions are already within permissible limits as there are no pollution sources in the vicinity. Use of solar energy in the Ladies' Hostel is useful in balancing and compensating the emissions of carbon into the atmosphere from burning fossil fuels. Also, the main campus of the college has been declared as 'vehicle free zone'. The college is well known for its rich floral diversity and a well maintained botanical garden.

Tree Plantation

Every year hundreds of saplings are planted on the campus and the hill by students and staff of the college. More than 100 saplings of native trees were developed using seeds collected locally. Students and staff also take part in planting trees on the hill slope in collaboration with the 'Green Hills' organization.

Waste Management

- **Zero Waste Campus Model Project** (2011-12). This was undertaken as a part of UGC's CPE (Extension Activity) Programme with the objective of creating a model that is environmentally sustainable, economically viable and socially meaningful. The thrust was on segregating waste at source- sorting dry waste and sending it for recycling; composting wet waste and proper disposal of e-waste. The students of Rangers' Eco-club developed two compost pits behind the "Resolve" building for collecting organic waste, especially dried fallen leaves and converting it into manure to be used during tree plantation drive. (2009-2010)

- **E-Waste Awareness Campaign and Collection Drive since 2012:** E-waste is hazardous to the environment and health of people and it needs to be recycled and disposed in appropriate ways. Every year an awareness campaign and collection drive is organized by the social outreach centre in collaboration with SWaCH, an organization working on solid waste management. A large quantity of e-waste is collected and sent off for further recycling and appropriate disposal.
- **E-waste Collection Drop Box:** An E-waste collection drop box for collecting small sized electronic waste has been kept in the main corridor of the main building. Students and staff deposit used e-waste into it.
- **Cleanliness drives:** The drives were organized by Department of Environmental Sciences in collaboration with the NGO “Daily dump” (11th January 2015) and with Kirloskar Vasundhara & NSS (16th to 19th January 2015)
- **‘Say No to Plastics’ Campaigns:** Efforts are underway to reduce the use of plastic bags and bottles on campus. Volunteers of ‘Green Steps’ are working towards a plastic free campus. The campaign is a part of this effort.
- **Handling Hazardous Waste:** Waste generated from microbiology and biotechnology laboratories (culture media) is autoclaved and then disposed in the drainage system. Liquid wastes generated in the laboratories of Chemistry and Environmental Science are diluted with water and then discharged.

Eco Friendly College/Departmental Fests since 2010

College Fests are times when the campus is vibrant with youthful activities. Since 2010 efforts have been made to make these fests eco-friendly. A list of suggestions are put up on notice boards and distributed to all the fest heads. The volunteers appeal to all the departments to follow certain guidelines in ‘reducing waste’ and promoting ‘Eco-friendly practices’. Every departmental fest has an observer. This has made significant difference and students are learning to be eco literate. This activity is organized by volunteers of Green Steps.

Participation in Eco Friendly Ganesh Visarjan (since 2010)

The Ganesh Festival is celebrated with great fervor in Maharashtra. But the immersion of the idols in the river causes water pollution. So some environmental organizations like KKPKP, SWaCH, ECO-EXIST along with the PMC have devised a way to go green. Students from Fergusson College have been participating in this green initiative in large numbers. Devotees are requested to immerse the idols in the tanks provided by the PMC. The *nirmalya* collected is either converted into compost or organic colours for *holi*.

Eco-collaborative activities

Sr. No.	Name of Institute / University / Department / Agency / Industry	Nature of Linkage
1	ACWADAM, Pune (NGO working on water issues)	Post graduate research
2	TERI, Delhi.	Academic
3	IITM (Pune-based research institute)	Research (M.Sc. II projects)
4	Pugmarks (Pune Based NGO)	Academic and Field activities
5	Tree Public (Pune Based NGO)	Social network
6	<i>Shashwat</i> (Pune Based NGO)	Field based activities and Awareness programs
7	<i>Jan Aadhar Sevabhavi Sanstha</i> Pune. (recycling Initiative)	PG Research, Field activities and Social network
8	World Wide Fund for Nature (WWF), Pune	Field based activities and Social network
9	Petroleum Conservation and Research Association, Mumbai.	Awareness programs, Guest lectures etc.
10	Pune Municipal Corporation, Pune.	Awareness program, preparation of Environmental Status Report (ESR).
11	Sustainability Initiatives	Academic
12	Kirloskar Vasundhara International Film Festival	Annual activity including lectures, exhibitions, and film screenings related to environmental issues.
13	<i>Kagad Kach Patra Kashtakari Panchyat</i> (KKPKP) & SWaCH – Waste pickers' organisation	Surveys, case studies and awareness campaigns.
14	SOPPECOM (Society for promoting participative ecosystem management).	Student research project on Gender and Water management "Capacity Building for Women in Water Users' Association"

Activities for raising environmental awareness

- **Screening of Environmental Films and Documentaries:** Fifty environmental documentary films, which are screened and discussed on regular intervals.
- **Environmental Exercises and Games:** Ten environmental games and exercises taken from Centre for Environment Education Manuals were conducted with great success. These include situational analysis, simulation exercises and case studies.
- **Street Plays and Poster Exhibition:** The Sociology Club '*Sameeksha*' has performed three street plays dealing with environmental issues in different public platforms. The street plays were: *Paniless Panipur* dealing with issues of privatization of water; *Gaon Chodab Nahin* deals with the tribal displacement due to developmental projects and *Vikas ki rail* questions the model of development.
- **Wildlife Week (1-7 October):** College is actively celebrating wildlife week by organizing nature trails, guest lectures, video screening, and poster exhibition.

Workshops/Seminars/Guest Lectures

S.No.	Title	Speakers/facilitators/resource persons	Date
1	A People's Symposium of Climate Justice	Prof. Madhav Gadgil, Prof. Vijay Paranjpye and Prof. Sanjeev Ghotge.	29/09/2009
2	Issues of solid waste management in Pune	Ms. Shabana Diler & Mr. Kailash Yesge of SWaCH	18/08/2010
3	Making teaching aids with waste material	Mr. Shivaji Mane, Mukhtangan Science Centre, IUCAA, Pune.	27/08/2010
4	Lecture on 'Energy Conservation'	Mr. Rajesh Balani, Regional Director of Petroleum Conservation and Research Association, New Delhi.	20/07/2011
5	Three Day Puppet Making Workshop	Tim and Noah , German interns at Centre for Youth Development Activity, Pune	30/07/2011 to 1/08/2011
6	<i>Karke Dikhao</i>	Dr.Rajendra Singh, Waterman of India and Magsaysay awardee	16/01/20 12
7	"Environment Status Report of Pune – a Critical Analysis	Avinash Madhale and Isabel of Centre for Environment Education	8/02/2012
8	Solid Waste Management	Ms. Laxmi Narayan of Waste Matters	10/02/2012
9	Globalization- Problems and Alternatives	Dr. Aseem Shrivastava and Mr. Ashish Kothari of environmental NGO Kalpavirksha, Pune	8/08/2012
10	Three days Workshop on Environmental Impact Assessment	Ms. Gauri Joshi, Environmental legal consultant, Pune.	12/09/2012 to 14/09/2012
11	Waste Management	KRIBHCO	5/12/2012
12	Language Diversity in India- its conservation and preservation	Padmashri Prof. Ganesh Devy	12/02/2014
13	The People of the Forest and the Forest Rights Act	Ms. Neema Pathak of Kalpavriksh, Pune	3/03/2014
14	LEADEARTHSIP PHASE II (involving youth in sustainability initiatives)	TERI (Tata Energy and Resource Institute)	16/09/2014

Observing/Celebrating Days

- **Hiroshima & Nagasaki Days** (August 6 & 9): This is observed to remind ourselves of the devastating consequences of nuclear weapons. Poster exhibitions, street plays, film screening and debates/discussions are a part of the programme.
- **Human Rights Week: "Environment and Human Rights"** (Dec.3 – 10, 2010): The focus was on the Bhopal Gas Tragedy. The poster exhibition & street play were taken to 5 different city colleges.
- **International Peace Day: Sustainable Development for a Sustainable Future**(September 21, 2012): In the context of the UNCSD Rio+20 Conference 2012, the theme chosen for observance of the International Peace Day was "Sustainable development for a sustainable future".

- **Coming Home to Gandhi** (January 30, 2012) & **Relevance of Gandhi – Some Stories of Hope** (January 30, 2013): Gandhi has been an inspiration for several environmental movements and for building alternative sustainable models of development. This was depicted through posters.

Participation in Kirloskar Vasundhara International Film Festival

This festival is organized in Pune every year to spread awareness about environmental issues. As a part of this fest, a lecture by Nityanand Jayraman was organized on “Confronting garbage crisis in India” on January 18, 2014 at Fergusson College. A conference on “Understanding the e-waste management” had experts speaking on the subject. Students’ presentations, film screenings and poster exhibition were also a part of the programme.

Waste Fest organized on 19th January 2015 focused on importance of segregation of waste, its reuse, collection of e-waste, and innovative methods of recycling. A waste fashion show, waste music band, rally, street play and film screening were a part of the waste fest.

Rio + 20 United Nations Conference on Sustainable Development’s Rio + 20 India Certification Programme (January – March, 2013): This is a short term certificate course. 36 students successfully completed this course.

7.2 Innovations

Developing a rational and scientific attitude has been one of the basic purposes of education. Research happens to be one of the systematic ways of gaining and sharing knowledge worldwide. Proper training for teachers and students will help in nurturing and nourishing their research talent and develop a spirit of scientific inquiry. Consistent and conscious efforts are undertaken to inculcate the spirit of scientific inquiry that would lead to innovations.

Some of the goals for the practice have been:

- (a) To encourage students and teachers to undertake research.
- (b) To communicate research findings through publications and presentations.

Following efforts were undertaken for strengthening research activity.

- (a) **The Research Coordination Committee (RCC):** The RCC plays a key role in encouraging research by providing infrastructure and administrative support.
- (b) **Avishkar- University Research Festival:** Expert guidance from the University and some national laboratories was provided through “Avishkar”. Students as well as teachers have participated in workshops and competitions.

- (c) **Model for Arts and Science Teachers (MAST):** This unique programme was specially devised under the UGC-CPE Scheme for orienting teachers and enhancing their competency levels in their respective subjects. In house training has been provided to the teachers and some teachers also participated in subject specific training programme at Centres of Higher Learning.
- (d) **Special Teacher and Researcher Programme (STAR):** This was another novel programme launched through UGC – CPE Scheme. Internship programme for aspiring teachers and researchers was offered and seed money was provided to budding researchers. Several articles and research papers were published through In-House Publication.
- (e) **Central Instrumentation Facility:** The college houses a central instrumentation facility with high end instruments and laboratory facilities for research in physical, chemical & biological sciences. Most science departments have high-end instruments facilities supported by DST-FIST

The outcome of this practice is evident from:

- Teachers' involvement in research has significantly increased. The number of research papers published, has increased from 186 (2004-09) to 616 (2010-15). There has been considerable increase in overall citation (950) and h-indices of teachers' publications.
- The number of major and minor research projects has also gone up from 26 (2004-09) to 69 (2010-15).
- Student research publications in reputed national/international journals have increased.
- Participation of students / teachers in national/international conferences has increased. Some of the papers presented have been adjudged as "Best Paper Presentation".
- 11 students and 3 teachers have won 14 research awards at state level competition- 'Avishkar' and national level competition 'Anveshan'.
- The number of patents granted, has also gone up from zero (2004-09) to four (2010-15).

Best Practices

Best Practice I: Title of the Practice: Mapping Campus Biodiversity.

Goal:

- Create awareness about importance of campus biodiversity.
- Equip students to use various research techniques in biodiversity studies.

The Context: India is a signatory to the International Biodiversity Convention and is bound to document and preserve biological diversity of the country. The Fergusson College campus is rich in biodiversity with a variety of habitats.

The Practice: As an attempt in this direction, some students under the Rangers' Eco club have been monitoring the biodiversity on the Fergusson college campus and the hill since 2008. The college has a large campus with a rich floral diversity. The major habitats on the campus include hill top, hill slope, plantations, gardens, open spaces and buildings. Many teachers and students from Zoology, Botany, Geology, Environmental Science and Geography departments have been working on various biodiversity related topics based on the campus, as a part of the UGC- CPE activity. Many teachers and students have been studying, watching and photographing the biodiversity on the campus and the hill on a regular basis as a hobby. Botany and Zoology students are regularly taken to the college hill as a part of the curricula (study visit) for floral and faunal surveys.

Evidence of Success: Some of results of such studies are as follows:

- **Floral diversity**

The campus is quite green with a diversity of trees. About 200 plant species have been enumerated on the campus by earlier teachers and students. Mr.Ashish Nerlekar, a past student has been monitoring the campus flora since 2014.

- **Faunal diversity**

- (a) **Invertebrate diversity**

The spider survey was conducted by Mr. Ashwin Varudkar, a 2014 BSc. (Zoology) batch student. He collected information on more than 60 species of spiders from the campus. He also developed a photography album on the butterflies on the campus.

- (b) **Vertebrate diversity**

Every year students of the Rangers' club, conduct a 'bird transect' (belt) across the campus during the winter months and document campus diversity. A group of students participated in the "Back-yard bird count" in February 2015 and reported 60 species from the campus. The data have been uploaded on the "www.e-bird.org", a website maintained by the Cornell Lab of Ornithology and National Audubon Society, USA. Many students have been working on different aspects of the campus biodiversity as a part of the CPE-UG projects. Students have also been monitoring butterflies and spiders of the campus. They have added other faunal groups like mammals, bats and reptiles. The outcome of the survey may be summarized as follows:

Type of life group	Number of species	Students and Teachers who collected the information
Spiders	60	Warudkar (2013)
Butterflies	90	Warudkar & Patankar (2013)
Reptiles	19	Warudkar & Nalavade (2014)
Amphibians	05	Warudkar(2014)
Birds	105	Raut et al (2012)
Mammals	11	Warudkar and Salve (2014)

The survey findings and estimates of campus biodiversity have also been published in conference proceedings and in reputed national journals.

Projects on Biodiversity under UGC- CPE Scheme

Sr.No.	Title of the Project	Names of Students
1.	Study of Diversity and Urbanization of Spiders of Fergusson College Campus.	Ashwin Warudkar
2.	Study of Birds and bird habitats of the Fergusson College campus.	Samrat Salve and Ashish Raut
3.	Study of Diversity of Wild Mammals of Fergusson College Campus.	Samrat Salve and Ashwin Warudkar
4.	Algal Diversity of Fergusson College, Pune	Ms. Vividha Raunekar, Ms. Shubhangi Raskar, Rushab Rathod and Digvijay Patil
5.	Mapping of Rare Species on Vetal Hill	Akshay Onkar
6.	Documentation of the Butterfly Species found in Fergusson College	Ms. Anushka Rege
7.	Angiosperm Diversity of Different Habitats in Pabe Ghat near Sinhagad, Maharashtra	Ms. Rutuja Barate
8.	Herpetofaunal Mortality Due to Vehicular Movement in Tamhini Ghat, Northern Western Ghats, Maharashtra	Anish Pardeshi
9.	Diversity and Distribution of Aquatic Insects in Pashan Lake of Pune, Maharashtra	Ms. Ramya Roopa
10.	Mapping the roosting colonies of Flying fox bat around Pune	Ashwin Warudkar and Gaurav Kalyani

Best Practice-II

1. Title of the Practice: Fostering Social Responsibility

2. Goal

- To instill a sense of social responsibility in students.
- To engage the students in meaningful service that meets community needs.
- To equip the students with skills, attitude and knowledge to work with the disadvantaged sections of society.

3. The Context : The purpose of education is not just preparing the students for a livelihood but also to make them good citizens and above all good human beings. Values of caring and sharing with the less privileged are one of the important elements of such education. It is our collective responsibility to empower the underprivileged to become self reliant so that they can live with respect and dignity. It is our duty to uphold the human rights of all disadvantaged sections of society. Our college encourages a lifelong ethic of community service.

4. Practices

- The college has a Social Outreach & Enabling Centre which gives an opportunity to the students to work with various civil society organizations. Around 300 students work with children from the underprivileged communities, on women's issues, de-addiction and counseling, children with disabilities, environmental issues and human rights issues. Broadly the work includes conducting surveys, organizing awareness campaigns, counseling, assisting teachers in day to day activities & during school annual days and other functions, conducting art and craft workshops, organizing clothes, toys and book collection drive and administrative work.
- We work with 15 civil society organizations namely KKPKP(*Kagad Kach Patra Kashtakari Panchayat*) – a waste collectors' organization, Ankur Vidyamandir – an inclusive school, Doorstep School – a school for the underprivileged children, Aalochana – a women's documentation centre, Vanchit Vikas –an organization working with urban poor, hawkers, sex workers and their children, Prism Foundation – an educational organization working with children with special needs Santulan – a drug de addiction centre, Mook Badhir Shikshan Kendra – a school for deaf and mute children, Department of Social Initiatives-Forbes Marshall, Hutatma Rajguru School – a neighbourhood school for the underprivileged children, Tathapi – a women's organization working on the issues of women and health, Sant Ramdas School – a Pune Municipal primary school, Deep Griha Society – an urban community centre, Aakansha Foundation and Green Campus Initiatives. Saathi is another initiative to integrate students with blindness into the college main stream. This is achieved through several activities like peer mentoring, self improvement workshops and participation in regular college activities and annual celebration of Louis Braille Day.
- **International Students' Facilitation Centre:** Fergusson College has always been one of the most popular destinations for international students in Pune. Presently, there are 269 students from 36 countries in the college. The International Students' Facilitation Centre addresses the needs of international students and helps them adapt to the college milieu.

The activities of the Centre include Orientation programme, tour of Pune city to places of cultural and historical interest, film screenings, student presentations on their respective countries, interaction with past international students of the college, communications skills' workshop. The highlight of the centre is the annual cultural programme, Panorama. It has been one of the major attractions amongst the cultural festivals in the college during the last 8 years. What makes this programme distinctive is that the flags of all the countries form the backdrop on the stage and the programme ends with the singing of the national anthems of all the participating nations.

5. **Evidence of Success:** The press has given coverage to the work done by the social outreach and enabling centre. Also several NGOs approach us for volunteers. The students have benefited a great deal. It has given them confidence in working with the community. It has been a process of self discovery for many.

The International Students Facilitation Centre has helped in bridging the gap between the international students and the teachers / administration and in building camaraderie amongst the students.

Best Practice III

1. Title of the Practice: Towards Gender Equality

2. Goal

- a) To sensitize the students to various dimensions of gender discrimination.
- b) To engage the students in activities that would empower them to work towards a gender just society.

3. **The Context:** There is an alarming rise in violence against women. No society can claim itself to be developed if half its populace is deprived of a dignified existence. As citizens of India it is our primary duty to uphold the values of equality, liberty, justice and fraternity enshrined in our Constitution.

4. **The Practice:** Fergusson College is committed to the cause of gender equality and has been undertaking several programmes towards this end. They are academic, awareness and action oriented.

Academic Oriented Programmes

- **Certificate course in ‘Women and Development’:** This is a three month part time certificate course conducted by Women’s Studies Centre, SSPU, Pune which we have been conducting for the past 8 years. This has received an overwhelming response from students.
- **Student Research Projects:** 8 short term student research projects on gender issues have been undertaken so far in collaboration with some of the pioneering women’s groups in Pune like Aalochana, Tathapi and SWaCH. The research projects are: capacity building for women in Water Users’ associations in collaboration with SOPPECOM (Society for promoting participative ecosystem management), rural deserted women in Bahe in collaboration with SOPPECOM, mapping child care in the area of Kalakhadak slum, PCMC in collaboration with TATHAPI; resource base on ‘gender’; ‘The working of CASH (Committee against sexual harassment) in Pune colleges; “Waste, waste-pickers and their lives”; case studies of waste collectors; survey on sexual harassment and portrayal of masculinity in Bollywood cinema.

- **Workshops/Seminars/Guest Lectures:** These have gone a long way in creating awareness about gender issues. 20 workshops, seminars and lectures have been organized on issues of gender violence, legal literacy, engendering governance, sexual harassment, masculinities, queer politics and women and developmental issues.
 - **Paper Presentation by Students on “Studying Gender: Experiences and Reflections”** at a National Seminar on “Interrogating Gender Studies: teaching, research & practices in Sociology and other disciplines” organized by Department of Sociology, SPPU Pune.
- Awareness Oriented Programmes**

Street Plays and Poster Exhibitions: We have 150 posters and 5 street plays that have been performed on several occasions. Street plays like *Ansuni Awaaz* on issue of sex selective abortions, *Chedkhani Band* on sexual harassment, *Nirbhaya* on violence against women, *Azadi* on breaking free from the shackles of patriarchy, *Bas Ab Aur Nahin* on dimensions of gender discrimination and way towards equality were very well received.

Forum for Gender Equality: This is an active students’ forum and its activities include weekly discussions, film screenings, awareness campaigns, conducting surveys, poster exhibitions and street plays to spread the message of gender equality. This year it conducted a survey on sexual harassment and a campaign on menstrual hygiene.

Independence Day (August 16, 2012): Theme “Women Hold Half the Sky”. A poster exhibition was held depicting different forms of discrimination against women, gender stereotypes and dimensions of violence against women. Film screening of “Bol” on domestic violence, street play – *ansuni awaaz* on the issue of female foeticide was performed.

International Fortnight (Nov.25 to Dec.10) to Stop Violence against Women is observed as the International Fortnight to Stop Violence against women. Activities are organized in collaboration with different women’s groups.

Participation in “One Billion Rising” (February 14, 2013): This was a global event organized to protest against the growing violence against women. In Pune the theme was ‘*saat nantar ghara baher*’- making public spaces safer for women. Our students participated in this.

World Human Rights Day – Women’s Human Rights (December 10, 2011): The Sociology Club celebrated this day by having a quiz on women’s human rights, poster exhibition, group discussion on ‘right to the city’.

Action Oriented Programmes

Women's Safety Audit of College Campus: (December 2012) This was undertaken to make the campus safer for women as a part of Jagar Janeevancha Campaign.

Campaigns: Campaigns like men against gender violence and combating sex selective abortion were organized. Activities included essay writing, poetry, collages and poster making, group discussions and awareness rallies.

5. Evidence of Success: It is very heartening to note the gradual change of attitude amongst students after the exposure to various programmes.

6. Problems Encountered and Resources Required

Misogyny is so deep rooted in our society that changing patriarchal mindset is a humongous task. Also issues related to women, sexuality and family evoke a strong emotive response and rational thinking often flounders.



(C) POST ACCREDITATION INITIATIVES

The process of re-accreditation by the NAAC peer team has helped the college in all round development in terms of realigning the teaching learning process, strengthening the laboratory infrastructure, inculcating the research culture and enhancing social outreach. The second cycle of accreditation of Fergusson College was carried out in February 2010. The peer team made recommendations for the quality enhancement of the college by indicating 10 different areas where it was desirable to take initiatives to either enhance the quality or to maintain the existing standards by further strengthening it.

In addition to the recommendation of the peer team, the college has undertaken certain quality sustenance and enhancement measures. A brief overview of the post-accreditation initiatives undertaken is presented below.

Quality Sustenance and Enhancement Initiatives

I. Realigning the Teaching-Learning process

There have been consistent efforts made by the teachers to enrich the curriculum and go beyond the university structured syllabi through informal discussions. Most of the teachers are Members of Boards of Studies/ Members of Subcommittees in various subjects and play a key role in framing/ restructuring/ revising syllabi/ curricula. Workshops on syllabi revision/ interaction with senior academicians and industry personnel have long been a part of the academic activities of the college. The college organizes training workshops, guest lectures and seminars. Teaching has been augmented with field experience, industrial visits and visits to National Institutes. Working on live industrial projects too has been strengthened in recent years. In order to give students an edge in the industry, they are given exposure to various skills through Skill development workshops, journal reading, internships in industry and the clinical field. Psychology students undergo rigorous selection procedure for the **Observation Internship Programme (OIP)**, which is focused on giving students interested in Clinical Psychology an exposure to actual clinical practice. At the same time, field experiences have been integrated with learning activities in Geography. Teachers and students have developed through making Curriculum-linked charts, participating in interdisciplinary lectures like Changing Geography of Europe, Geo-politics of India with reference to Maharashtra etc. Additional modules over and above the syllabus prescribed by the university have been provided by the college. Two such modules were the Abnormal Psychology module and Group Counselling module, which included *Skype* lectures by overseas professionals from Australia and USA, respectively. The French department conducted a course on Business French and also developed a “Whatsapp” group for Indian students to interact with native French students. This has developed many meaningful linkages with industries and national institutes.

An “Industry-Institute Interaction Cell” has been established to provide a platform for students to interact with industry. Formal interactions, seminars, lectures and panel discussions have helped in Placements and in understanding the needs of the industry especially in Computer and Life Sciences.

The college has also been awarded “STAR College Scheme” by Department of Biotechnology, Ministry of Science and Technology, Government of India. Six departments have been recognised under the scheme viz., Biotechnology, Chemistry, Electronic Science, Microbiology, Physics and Zoology. The concept of Add On Practicals, Hands on Experience and Faculty Knowledge Enhancement Programmes have been very well propagated amongst the undergraduate students and teachers. The practicals focus mainly on skill development amongst students.

Teachers have developed e-content in some subjects that are being used in the classroom and laboratory teaching. A separate “Educational Technology Centre” is set up where these e-resources would be deposited and new ones would be developed. Facilities for recording the lectures/ demonstrations and preparing multimedia presentations are set up. The college has developed a blue print for setting up a “Knowledge Portal”, which would act as a “one stop shop for information and Knowledge” for students. Internal servers would be used and e-resources developed would be uploaded and made available. The Department of Electronic Science is a partner for the newly launched e-PG Pathshala scheme of UGC. This has added value to the above mentioned efforts. Eight teachers from the department of Electronic Science are participating in the National Mission on Education (NME-ICT) project of MHRD with UGC-INFLIBNET for e-content development for the PG programme in Electronics Science. Dr. Nitin Kulkarni from Fergusson College is the Co-Investigator for 1.2cr. project. Fergusson College is the co-host for preparation of e-content for this project in association with INFLIBNET. Apart from this, there are frequent lectures/ seminars with delegates/ representatives from Universities abroad.

The year 2014 marked the centenary year of teaching German language in Deccan Education Society. Hence, several student centric activities and programmes were organized with an exhibition, a conference and an Open Day for the general public to learn conversational German and participate in quizzes.

II. Enriching the Learning Resources

The Bai Jerbai Wadia Library (Central Library) was established in the year 1929 and has an excellent collection of very old and rare manuscripts/ collections like Mandlik Collection, Bramhe Collection, Osho Collection, and Paul Tesla Collection. Digitization of these manuscripts was on the priority list of the college and the

Management. The work of digitization started after the second cycle of NAAC. The budgetary requirement for digitization was huge, and hence to achieve complete digitization of manuscripts, the college applied for financial support with National Archives of India (Ministry of Culture) and received a grant of Rs. 5,00,000.00. A total of 1395 rare collections has now been digitized. Automation of library services is in progress which includes bar coding of books, training the staff for automation and other library services at centres like UGC-INFLIBNET, Ahmedabad. OPAC system for book search has been implemented fully. Apart from this, there are 14 departmental libraries which are now automated. Teachers and students avail themselves of the N-LIST -INFLIBNET services.

III. Inculcating the Research culture

The Research Committee was reformed and made more functional with specific roles and functions assigned. The committee looks into all issues of research including admission of Ph.D. students to the nine recognized research centres. Several interactions and seminars were conducted by the committee to motivate young teachers to apply for research proposals. All kinds of administrative support is provided by the committee, and as a result a large number of teachers actively undertook projects on different topics. These activities further enhanced students' participation in the Research Competition, "Avishkar" and the college won awards in both student and teacher categories. The system for research- right from writing the research proposal upto submission and presentation and implementation has now been streamlined. A special Programme on Ph.D. Course work was conducted during vacations for Ph.D. students. The content of the course work included research methodology, biochemical techniques, instrumentation, computer applications and biodiversity. The college encourages student research by conducting workshops on Research Methodology, application of SPSS in data analysis. Special efforts are put in by teachers to guide both under graduate and post graduate students to conduct research projects and present papers at National/International conferences as well as to participate in competitions like "Avishkar". The college has developed and expanded tie-ups with the industry and institutes to allow professionals and experts to interact and guide students. Research is now a collaborative effort with National Institutes and other educational institutes of academic repute as evident from the number of papers published in National and International Journals.

Consultancy services by the faculty are slowly evolving. The areas where consultancy services have been extended include environmental impact assessment, assessment of quality of water, hydrogeological surveys etc., however expertise of some teachers are being utilized by premier government agencies like UGC, YASHADA, Maharashtra Finance Commission, Maharashtra State Intelligence Academy, BARTI, etc. Other areas include Forensic Photography, Electronic

Sciences, Biodiversity and Livelihood, Stress Management, Career and Personal Counselling etc.

IV. Improving the Student Support Mechanisms

After the Second cycle of NAAC, the Placement Cell has been strengthened with involvement of teachers from Computer, Mathematical, Life, Physical, Chemical and Earth Sciences. Pre placement activities are carried out which include mock interviews, aptitude tests, technical tests and lectures, soft skills etc., for students. Most of the departments have a “Placement Coordinator” and this has added to the placement efforts of the college. The number of companies visiting the campus has increased exponentially. The percentage of students getting placed is in the range of 80-85% every year. Linkages for internships and placements with MNCs like Symantec, Persistent, Wipro, Tech Mahindra, Eaton, Quick Heal and Bristle Cone have been developed and strengthened.

V. Strengthening the Infrastructure

The college also is recognized for the award of Basic Scientific Research Grant (BSR) by the UGC. These grants have been utilised for improving the laboratory infrastructure in basic science laboratories. The museums in these departments have been also restructured with minor repairs and have been made more presentable. Through this scheme solar panels have been fitted in the Department of Electronic Science and solar energy is being used in the laboratories, thereby decreasing significantly the consumption of electrical energy consumed.

Two computational centres with net connectivity for students have been established through funding from UGC and DST in the Central Library. There are 40 computers for net access for students. All the buildings on College Campus are interconnected using CAT6 and optical fibre network through financial support from DES.

Renovations of old buildings by DES in terms of repairs as well as new infrastructure have been created in the campus. Prominently these include roof repairs, electrification, electrical fitments, renovation of hostel toilet-blocks, a new open amphitheatre at the academic complex, solar panels for girls’ hostel and Electronic science department, furniture for computational centres, grey water treatment plant, LED street lamps have been added during the past four years. Renovation of Amphitheatre while maintaining its gothic architecture was a major task involving a total expenditure of Rs.2.45 Cr. A total of Rs.30,88,000.00 has been spent on various renovations, furniture and other amenities by DES.

The college has also submitted a detailed proposal for financial assistance under “Heritage Status to Colleges” under the new scheme of UGC XII Plan.

Use of ICT and computerization for all administrative needs has been enhanced. Communication through e-mails has been proactively followed in connecting all the departmental and administrative heads. The campus has been connected with voice and data connectivity (optic fibre and STP) since 2009. Earlier, the campus was connected with TATA lease line 10Mbps for net connectivity and ERP (Synthesis) was used optimally for student-related tasks (admission procedure, category wise data, identity card and fee challan generation etc.). Presently, the campus is connected with RELIANCE lease line with higher speed (22Mbps) with fire wall protection (Fortigate). In the due course, it was observed that we need a much larger and multifaceted ERP (GEMS) solution (Persistent) which would integrate faculty, academics, placements, teachers’ self certification, leave, salary and provident fund, interface with students, attendance of students, library services and administration including employee life-cycle. The LAN requirements (switches, cables, IO box, cable manager, patch panel) have been replaced at the departments of Botany, Economics, Library, Geology, Statistics and Zoology. There has been substantial increase in the number of Servers (8), Computers (768) and Printers (116). Revolving CCTV cameras with night vision (89) have been installed at prime locations in the campus for security. Softwares like ADOBE suite, ERDAS 13, MATLAB, SPSS, Lab View, EZ Charger, Clarity Snet (Language Laboratory) and Mathematica have been added for the use of teachers and students. Work Station for editing/ mixing/special effects has been set up in the Animation laboratory.

VI. Train the Trainers

Presently, training for teaching and non teaching staff both in a formal as well as informal way to update their knowledge with regard to academics and administrative functions is being practised. Orientation programme for newly recruited teachers was conducted. The focus of such programmes is to develop mentoring and counseling skills, use of teaching aids, academic appraisals and preparation of research project proposals. Teachers have also been trained at Centres of Higher Learning and Excellence to upgrade their subject knowledge. Training of non teaching staff to perform administrative functions, laboratory work and safety measures are also being practised. The staff is trained for the use of library software, ERP and website. Special lectures for non teaching staff were conducted which focused on Examination process, Staff welfare, State Government norms and Government resolutions, UGC XII Plan, Human relations, building vocabulary for office administration, life skills etc., Recently, lecture series/ workshops were organized for a period of 25 days (half day) in collaboration with SPPU. Resource persons from different institutes

and university departments contributed to this workshop. The prominent lectures / sessions included Action, Reaction and Team Work, Mental and Physical Health, Yoga and Breathing Exercises, Importance of Happy Personality, Work Environment, Family Health, Emotional Efficacy and Control, Documentation and Record Keeping and Bench Marking Service Quality. The facts that these sessions have significantly helped our non-teaching staff are reflected through their interpersonal relations and efficacy in office work.

VII. Enhancing the Linkages and networking

Over the years the college has made consistent efforts in developing and utilizing linkages for academic and research benefit of teachers and students. Training/Internship of students in MNCs and working on live projects in upcoming areas of computer sciences is a regular feature of the college. Students also undergo project work at national institutes like National Chemical Laboratory, National Centre for Cell Sciences, Agharkar Research Institute, Armed Forces Medical College, Gokhale Institute of Politics and Economics and University departments. Others include Serum Institute, NAFARI, Lupin Biotech, Cipla, Reliance Life Science, Wockhardt Pharmaceuticals, Tata Consultancy Services, Cognizant, Volkswagen (Germany and India), TATA Motors, Bharat Forge, Kirloskar, etc.

For linguistic studies in French, collaborations with LaTilloye College and Lycee St. Pol Morlaix, France have been a routine feature. The college had collaborated with Glasgow Caledonian University, Scotland, UK for some programmes in Life Sciences, which were conducted in the college.

Presently, the college has established linkages with Elon University, USA and Penn State University, Harrisburg Campus, USA. The joint programmes include research activities, conferences, seminars and Student Exchange Programmes.

VIII. Looking beyond academics - Institutional Social Responsibility

The **Social Outreach and Enabling Centre** is an initiative started in 2010 to give an opportunity to the students to work with various civil society organizations. The activities focus on working in the areas of children from underprivileged communities, women's issues, de-addiction and counselling, children with disabilities, environmental issues and human rights issues etc. Broadly, the work includes conducting surveys, organizing awareness campaigns, counselling, assisting teachers in day to day activities and during school annual days and other functions, conducting art and craft workshops, organizing clothes, toys and book collection drive. The centre has also developed linkages with 17 organizations. The college has a large number of students with blindness. This centre also looks into the needs of these students in terms of academic assistance, providing

recorded notes, scribes during exams etc., A software has been designed (SAATHI) by a volunteer for assigning writers to blind students. A separate space for students with blindness has been created in the Central Library. This space has five computers with JAWS 13 software and Braille. Students of Astro Club (Physics) are part of the Science Education Initiative (SEI), which is a non profit organization. The students visit schools for four hours a week and teach Science and Mathematics.

IX. All round personality development through Sports and Cultural activities

Over the years, Fergusson College has won laurels in sports and cultural activities besides always being in the forefront of academic achievements. The college has very good infrastructural facilities for sports and related extra-curricular activities, which have grown through the years. There have been additions and renovation of these facilities from time to time, for indoor and outdoor games and also for traditional Indian games. The budget for sports has been increased and subsequently funding from DES has been enhanced considerably. The gymkhana which takes care of sports infrastructure has been playing a proactive role in obtaining funding from other sources like University and UGC. New games like venture and combat sports have been introduced. Traditional basket ball court has been transformed into a synthetic court with expenditure amounting to Rs. 18.00 lakhs. A court for volley ball has been created, two separate gymnasiums (for boys and girls), more sports equipment and spin bikes have been added to the sports infrastructure.

- Four students have been awarded Shiv Chatrapati award during last two years.
- Ameet Singh (S.Y.B.A.) and Siddharth Bhagwat (S.Y.B.Sc.) participated in the Antarctica Expedition under TERI Tetrapack Leadership programme.
- Shirin Limaye Basket ball International player has been selected to play for India.
- Mihir Joshi and Shreya Joshi (Basket ball players) have been selected for India.
- Gauravi Wambulkar badminton player participated in Olympic games for paraplegics.
- Swapnil Wagh, plays for cricket tournaments for blind. He has represented India in 25 national and 2 international tournaments (T-20 Pakistan-India Blind Cricket Series).
- Suyash Jadhav, para-olympic swimmer, won 25 gold and 03 silver and 02 bronze medals at national and international events.

The college has a significant population of drama/ theatre/ music loving students. Their activities have always been encouraged on the campus. All types of facilities are provided to such enthusiasts by the college. The prominent festivals where students have been

participating and winning awards are *Malhar, Firodiya, Purshottam, Suman, Sakal* and *Sarpotdar Karandak*. Students also participate in competitions like duet singing, Sitar, Classical singing, drums, puppetry, quiz competition, fusion bands etc. Students are given opportunities to nurture their talent in stage acting and various backstage specialties. Many leading actors, who passed out from Fergusson can currently be seen on the screen in movies and on television. 72 prizes have been bagged by our students in debate competitions in the year 2014-2015.

X. Administration

Campus wide networking and internet connectivity has improved all academic and administrative processes. Recently introduced Management Information System – GEMS (Governing Educational Management Systems) has made administrative procedure more efficient.

The growth in recent years has led to more student population on the campus and more teachers. In order to cater to the requirements of the self financed programmes, administrative support staff has been appointed. Since the various departments are located in independent buildings, the administrative functioning of each programme goes on independently. With the number of academic programmes that have been added (Animation, B.Voc.) and anticipated to be added in future, the need was felt for better organization to aid their administration. A separate office (Office No. 3) to deal with administrative requirements of self financed programmes has therefore been established.

XI. Improving the Monitoring Mechanisms

The IQAC is responsible for monitoring the academic activities of the college. Apart from this, the IQAC prepares college proposals under various schemes of UGC, DST and DBT and submits for funding.

The concept of Academic Audit was introduced after the second assessment and accreditation Cycle of NAAC. The Academic calendar is prepared by IQAC which clearly indicates the number of teaching/working days available in an academic session. Based on this, every teacher is assessed for his/her academic performance in the form of academic compliance as stated by UGC regulations, 2009. “Teacher’s Diary” is maintained by each teacher which also lists out the academic, administrative, co-curricular and extra-curricular activities carried out by a teacher, in addition to leave (casual, duty, medical, etc) record.

A well developed mechanism for obtaining student feedback on teaching has been developed and deployed by the IQAC. During this academic year the feedback system was made **On-Line** for post graduate science programmes, which has reduced the amount of

consumables in terms of stationary, man power and has resulted in easy analysis of feedback reports.

XII. Autonomy

The college has already submitted the proposal for Autonomous Status to SPPU in October 2006, January, 2008, October, 2010 and a revised proposal in January 2011. In 2013, the University formed a Committee for granting autonomous status to the college. The Committee visited the college on 27th and 28th September, 2013. The committee interacted with all the stakeholders of the college and submitted a detailed report to the University. The decision from Government of Maharashtra, University and the UGC has been long awaited. The guidelines of UGC are being followed with regard to formation/ composition of various apex committees under Autonomous status, composition of Boards of Studies and drafting structures of first year syllabi for all programmes. The administrative setup is also slowly being reformed with more emphasis on training the office staff, new ERP system and separate Examination section. Additional infrastructure in terms of student support, laboratory modifications/ renovations, procurement of high end instruments/ equipment and simultaneously training the teachers at Centres of higher learning and excellence is being treated on a priority basis.

- **Student centric, job oriented learning initiatives**

The learning process is made more student-centric through field surveys, industrial visits, workshops and use of audio visual aids. In keeping with the changing needs of the economy, the college has geared itself for giving its students appropriate skill based training. For instance, to sharpen linguistic and communication skills the 'Language Lab' is used optimally, similarly research skills are honed through the RCC. Various departmental fests also help in developing skills like organisational and management skills. The Industry Institute Interaction Cell was established to bridge the gap between the academia and industry and to provide career opportunities to the students.

- **Research Initiatives**

Research activities are encouraged amongst teachers and students. They are motivated to undertake research projects, publish and present their findings in national and international journals. Infrastructure needed for research is enhanced by mobilizing funds through various government schemes. Potential researchers are identified who undertake short term research projects as a part of UGC/CPE. There is an increase in collaborative initiatives with Research and Development Laboratories, National institutes and other research agencies. Participation of teachers and students in research festivals like 'Avishkar' and 'Anveshan' has also increased, many of whom have won several prizes.

- **Infrastructure**

There has been a continual upgradation and addition of high end equipment to all science laboratories. New language laboratory, Astro Physics Lab and 2D animation lab have been added. A new open air amphi theatre was recently inaugurated. Electrification, roof and toilet renovations and setting up of water recycling plant have been undertaken. A synthetic basket ball court has been welcomed by sports enthusiasts.

- **Use of IT**

Prolific use of IT is made for a more effective administrative functioning and for enhanced learning. Membership to UGC-INFLIBNET has made access to e-journals and e-books easy, facilitating learning and research process. Campus wide networking and internet connectivity has improved all academic and administrative processes. Recently introduced Management Information System – GEMS (Governing Educational Management Systems) will make administrative procedure more efficient.

- **Institutional Social Responsibility**

To contribute to the general well being of society, students are sensitized to various social issues like human rights, gender discrimination, and environmental degradation. Through the Social Outreach and Enabling Centre, students volunteer to work with several NGOs in the city. Saathi enabling centre helps facilitate integration of students with disabilities into the college mainstream.



(D) COMPLIANCE FOR PEER TEAM REPORT**Overall Analysis (NAAC 2nd Cycle)**

Institutional Strengths	<ol style="list-style-type: none"> 1. <i>Good Institutional reputation.</i> 2. <i>Adequate facilities for existing programmes and space for future growth and expansion.</i> 3. <i>Consistently good performance of the students in University Examinations and cultural activities.</i> 4. <i>Conducive learning environment for students and good ambience on the campus.</i>
Institutional Weaknesses	<ol style="list-style-type: none"> 1. <i>Research activities need to be strengthened.</i> 2. <i>Lack of professional consultancy.</i>
Institutional Challenges	<ol style="list-style-type: none"> 1. <i>Starting innovative courses, training students for competing at the global level.</i> 2. <i>Generating more funds for modernization, maintenance and addition of infrastructure.</i> 3. <i>Better maintenance of heritage building and rare manuscripts and books.</i> 4. <i>Collaboration with research institutes at National and International Levels.</i>
Institutional Opportunities	<ol style="list-style-type: none"> 1. <i>Ample scope for developing into a centre of excellence in higher education.</i> 2. <i>Good scope for developing Industry-Institution networking.</i> 3. <i>Good scope for offering new PG courses in Arts and Science faculties, vocational and interdisciplinary courses.</i>

Recommendations given during NAAC- 2nd Cycle for Quality Enhancement of the Institution

Recommendation I

The college should make concerted efforts for obtaining Autonomy

- The college has made concerted efforts to obtain Autonomy.*
- First proposal for autonomy was submitted in the year 2006; the revised proposals have been submitted in the year(s) 2008, 2010, 2011 and 2013. The University Committee to grant autonomy visited College on 27th and 28th September, 2013 and submitted the report to the University.*
- The Committee studied the Academic Structure, Infrastructure of the college, Quality of Academics, Research, Human Resource Management and Financial status of the college. The committee also visited all the departments and interacted with all the stakeholders of the college.*
- The detailed report by the Committee has been submitted to the University.*
- The decision from the State Government and the University are awaited.*

- (f) *The guidelines of UGC are being followed with regard to composition of various apex committees and Board of Studies.*
- (g) *A feedback on present curriculum has been taken and suggestions were invited from all stakeholders to revise the curriculum.*
- (h) *Stream-lining and fine tuning of academic and administrative procedures are under progress.*

Infrastructural enhancement and modifications in the laboratories are being done.

Recommendation II

Teachers should be encouraged to obtain more grants for research projects and for organizing seminars / conferences from different funding agencies.

- (a) *After 2nd NAAC assessment and accreditation, a more functional “Research Committee” has been formed.*
- (b) *Young teachers/ researchers have been motivated to undertake research projects. All type of procedural support is being provided to them, which has considerably enhanced the number of research projects.*
- (c) *Research projects funded are UGC, ISRO, BRNS and SPPU. **42** minor research projects have been successfully completed with an outlay of **Rs. 73,74,500.00** and **27** minor research projects are Ongoing with an outlay of **Rs. 51,00,000.00**. **03** major research projects have been completed with an outlay of **Rs. 48,00,000.00** and **03** major research projects are ongoing with an outlay of **Rs. 42,54,250.00**.*
- (d) *One project (Microcity) (Rs.2,00,000.00) has been funded by Volkswagen, Germany to study mobility problems in urban areas with reference to Indian culture, slum mobility, mobility of disabled people and safety of women. Students from Computer Science, Economics, Psychology, Sociology and Electronic Science were involved in this project.*
- (e) *Short term research projects have been given to students through UGC-CPE and UGC-BSR Schemes under the guidance of teacher.*
- (f) *The amount of research projects under UGC-CPE is **Rs.7,64,956.00** for Arts and **Rs.7,97,800.00** for Science students.*
- (g) *Under UGC-BSR scheme **Rs.30,0000.00** have been assigned for student research projects in basic sciences.*
- (h) *The research of these students has been published in National journals of repute and also presented in National and International Conferences.*
- (i) *A total of **616** research papers were published. Out of which **301 papers** are published in International journals, **109** in National journals and **206** in Conference Proceedings. **112** books have been authored by our teachers and **43** chapters have been contributed in books. **04** patents have been awarded, out of which **02** are published and **02** are filed.*

- (j) The college publishes a research journal entitled, “SPEED Journal of Research in Electronics” in collaboration with Society for Promotion of Excellence in Electronics Discipline.
- (k) The college has been awarded DST-FIST scheme at “O” level. High end instruments have been added to the present research infrastructure.
- (l) Organization of Seminars/ Conferences and Exhibitions at State, National and International levels has been carried out proactively by various departments with funding from UGC, DBT, MOES, CSIR, INSA, GSI, IEEE, NAAC and SPPU.
- (m) The details of conferences/ seminars/ workshops organized by the college in the past five years is as follows:
- Department of Chemistry: National Conference on Advances in Chemical Sciences.
Funding Agencies: Rs.1,30,000.00(UGC) and Rs.2,63,407.00(DES)
 - Department of Computer Science: National Workshop on Emerging trends in Computer Science and Applications.
Funding Agencies: Rs. 50,000.00 (SPPU) and Rs. 2,20,000.00(DES)
 - Department of Microbiology: National Conference on Modern Analytical Techniques in Microbiology.
Funding Agencies: Rs.1,00,000.00(DBT) and Rs. 2,93,182.00(DES)
 - Department of Economics: State Conference on Maharashtra Economics: Challenges and Prospectus.
Funding Agencies: Rs. 70,000.00 (UGC) and Rs. 48,119.00(DES)
 - Department of Economics: International Conference on Regional Trade Agreement and Preferential Trade Agreement.
Funding Agencies: Rs. 3,00,000.00 (SPPU)
 - Department of English: State Level Workshop on “Holistic Healing: A Journey towards Optimal Wellness”.
Funding Agencies: Rs.25,000.00 (SPPU) and Rs.3,393.00(DES)
 - Department of Electronic Science: National Conference on ‘Advances in Electronics and its Interdisciplinary Applications.
Funding Agencies: Rs. 2,00,000(SPPU), Rs. 20,000.00(IEEE) and Rs. 3,90,186.00(DES)
 - Department of Geology: International Conference on Recent Developments in Stratigraphy
Funding Agencies: Rs. 7,30,000.00 (MOES, UGC, CSIR, INSA and SPPU) And Rs. 28,664.00(DES)
 - Department of Mathematics: Interactive International Exhibition on “Mathematics That You can Touch” in collaboration with Goethe Institute Max Muller Bhavan.
Funding agencies: Rs. 40,000.00 (Goethe Institute and DES)
 - Department of Psychology: National Conference on Health and Wellbeing; 01 National Conference on Developing Human Potential.
Funding Agencies: Rs.1,05,000.00(UGC); and Rs.1,54,629.00(DES)
 - Department of Political Science: State Level Workshop on the Working of Legislature.
Funding Agencies: Rs. 30,000.00 (SPPU) and Rs.44,600(DES)

- *Department of Physics: 03 National Seminars – Frontiers in Physics. Funding Agencies: Rs. 1,00,000.00(SPPU); 1,50,000.00(IUCAA) And Rs. 55,000.00(IUCAA)*
- *Department of Physics: Science Academics lecture workshop programme on Nanotechnology: Energy and Health. Funding Agencies: Rs. 1,21,500.00 (Indian Science Academy)*
- *Department of Physics: National level conference on “Ancient Science and Technology: Retrospection and Aspirations”. Funding Agencies: Rs. 2,76,000.00(DES)*
- *Department of Statistics: National Workshop Applied Statistics: An Interdisciplinary Approach. Funding Agencies: Rs. 50,000.00 (SPPU) and Rs. 7,636.00(DES)*
- *Department of Sanskrit: State level conference-Brihannaharashtra Prachya Vidya Parishad. Funding Agencies:*
- *Department of Zoology: National Conference on Biodiversity Monitoring and Research: Current Practices and Future Trends. Funding Agencies: Rs. 1,50,000.00 (UGC) and Rs. 54,137.00(DES)*
- *IQAC: State Conference on Autonomy to Colleges and Role of IQAC. Funding Agencies: Rs. 75,000.00 (NAAC, Bangalore) and Rs. 1,15,887.00 (DES)*

Recommendation III

Library facilities need to be upgraded and automated on priority basis with focus on preservation of manuscripts and rare books.

- (a) The departmental libraries (14) are automated.*
- (b) The process of bar coding of books in the Central library is in progress. Automation with regard to book search and issuing is completed.*
- (c) N-List-INFLIBNET subscription is availed of by the college and utilized by teachers and research students.*
- (d) 1395 old and rare manuscripts are digitized with funding from DES and National Archives of India; Ministry of Culture.*

Recommendation IV

Industry-Institute Interaction Cell needs to be established along with the strengthening of placement cell.

- (a) An “Industry-Institute Interaction Cell” has been set up by the college; the Cell conducts at least one programme in each semester and has bridged the gap between academics and industry. Some of the activities of the Cell include:*
- (b) Organization of Industry-Academia Summit, Workshops on CV writing, Group Discussions and personal interviews were organized. Sessions on Career Counselling Sessions, Seminars and Panel discussions with industrial experts have been conducted that have benefitted the student community with regard to entrepreneurship and placements.*

- (c) *The college has “Placement Cell”. The roles and functions are well defined with a “Placement Co-ordinator” for each department. Pre-placement activities are an integral part of the Cell. 40-45 companies visit the campus and approximately 120 students are selected every year.*

Recommendation V

College needs to start new innovative courses, vocational programmes and interdisciplinary courses in emerging areas.

- (a) *03 vocational programmes in Biotechnology, Electronic Equipment Maintenance and Photography are being offered for the last ten years.*
- (b) *Keeping pace with the growing demand for core professional programmes and their market responsiveness, the college started two innovative programmes in:*
- *B.Sc.- Animation*
 - *Bachelor of Vocation- Media and Communication; Digital Art and Animation (Under National Skill Qualification Framework, MHRD-UGC)*
- (c) *Apart from the above, DES offers Certificate Courses in Photography, Counselling Psychology, German, Spanish languages and American Studies.*

Recommendation VI

Central computer facility with internet connectivity to be established particularly for students.

- (a) *02 computational Centres with 40 machines with net connectivity have been established in the Central Library for students with funding under UGC XI Plan, DST-FIST and DES.*

Recommendation VII

Faculty from every department should be sent to various centres of excellence to learn about new teaching, learning best practices in their subjects.

- (a) *The IQAC organizes a one week “Teacher Training Programme” for newly recruited teachers. The focus of such programmes is on developing teaching skills, use of teaching aids, mentoring and counseling of students, social responsibility and research.*
- (b) *Summer training programmes for teachers have been conducted in some subjects like Electronic Science.*
- (c) *Teachers are also exposed to interactive sessions and lectures by eminent academicians and scholars from different institutes/ agencies like UGC, NASA, DRDO, JNU, DBT, IEEE, SPPU, IUCAA, NCRA, IISER, MNCs and Industries.*
- (d) *18 Teachers have completed training/ learning at Centres of Higher Learning and Excellence like Venture Centre (NCL), INFLIBNET, JNCASR, IIRS, Christ University, NIT, NUEPA and University of Gottingen, Germany.*

- (e) *Department of French in collaboration with La-Tilloye College and Lycee St. Pol Morlaix College, France conducts student exchange programme every year.*

Recommendation VIII

The departments need to undertake collaborative activities in teaching and research with national and international institutes.

- (a) *The Department of Electronic Science in collaboration with 6 Colleges and 8 Universities has been awarded a project on production on Courseware e-content for Post Graduate Subjects. Dr. Nitin Kulkarni is the Co-investigator for the e-content development project and the total funding from UGC is Rs.112.00 lakhs. The college is co-host with UGC-INFLIBNET for this project.*
- (b) *For research activities the college has collaborated with IUCAA, BRNS (Board of Research in Nuclear Science) Department of Atomic Energy, National Centre for Cell Science, SPPU and Zoological Survey of India. Research papers have been jointly published with these Institutes.*

Recommendation IX

Definite mechanism and policy needs to be evolved for academic and administrative auditing of various courses and projects, and should upgrade its existing sports facilities and add new facilities particularly for athletics.

- (a) *Academic Audit of each Programme is carried out formally through an established mechanism of IQAC.*
- (b) *Apart from this, the State Government and University conducts academic as well as administrative audit of all programmes offered by the college. The parameters include student strength, number of filled and vacant teaching and non teaching posts, workload and time table of each programme and infrastructural facilities provided to the students. The information is provided to these apex agencies in time.*
- (c) *Sports Facility- Gymnasium for Girls and Boys; Gymkhana equipment for Girls and Boys, Goal Post and Table Tennis, new Kabaddi ground, Cricket Wicket, 01 Volley Ball Courts and One Modern / Synthetic Basket Ball Court; introduction of venture and combat sports.*

Recommendation X

College should encourage greater use of ICT for teaching and learning along with establishment of centre for career counseling and development.

- (a) *The campus is connected with Voice and Data through Optic Fiber; Reliance Lease Line of 22Mbps; 73 Switches; 794 computer, 167 printers and 08 Servers.*

- (b) Integration of ICT in teaching- learning methods has been adopted and practiced regularly for teaching. Some departments like Computer Science, Electronic Science and Geology have developed their own e-resources.*
 - (c) Teaching (demonstrations of Principles and Method of practicals) is done by using ICT. All Science Laboratories are ICT supported.*
 - (d) Some Arts departments have ICT facilities.*
 - (e) Language Laboratory has been established through UGC-CPE to meet the ICT requirements of Indian and Foreign linguistics.*
 - (f) Career Counseling is formally done through “MAANAS” Counseling Centre established in Department of Psychology. The Centre tests student’s ability for mechanical aptitude, abstract reasoning, space relations, clerical speed and accuracy and numerical reasoning. It also tests the student on parameters like General Intellectual Ability, Emotional Quotient and Personality.*
- Apart from the above, the Cell conducts training workshops on Resumé Writing, Group Discussions and Personal Interviews.*



(E) EVALUATIVE REPORTS – DEPARTMENT WISE

1. Name of the Department: **Economics**
2. Year of Establishment: Undergraduate - 1914
Postgraduate - 1972
3. Names of Programmes/Courses offered: B.A., M.A. and Ph.D.
4. Names of Interdisciplinary Courses and department/units involved: Nil
5. Annual/Semester/Choice based Credit system (programme wise): B.A. - Annual; M.A. - CBCS
6. Participation of the department in the courses offered by other departments:
 - Dr. Pradeep Apte contributed lectures on Karl Marx: A Critical Review and practicals on Eigen Value and Eigen Vector with Applications in MATLAB Workshop
7. Courses in collaboration with other Universities, Industries, Foreign Institutions, etc.: Nil
8. Details of courses/programmes discontinued (if any) with reasons: Nil
9. Number of Teaching Posts

Undergraduate/Postgraduate	Sanctioned	Filled
Associate Professors	01	01
Assistant Professors	06	04
Assistant Professors (Temporary)	-	04

10. Faculty profile

Name	Qualification	Designation	Specialization	Experience (Years)	No. of Ph.D.s guided
Dr. Kalyani Kulkarni	Ph.D.	Head and Associate Professor	Banking, Financial Institutes, Public, Labour and Industrial Economics	34	-
Dr. Pradeep Apte	Ph.D.	Assistant Professor	Agriculture and Mathematical Economics, Econometrics, Law and Economics	29	03 (ongoing)
Dr. Surekha Rongate	Ph.D.	Assistant Professor	Indian Economy (Agricultural)	18	-

Smt. Nirmala Talape	M.A.	Assistant Professor	Indian Economy (Banking)	06	-
Shri. Santosh Pharande	M.A.	Assistant Professor	Agricultural Economy	06	-
Dr. Sharmishtha Matkar	Ph.D.	Former Head and Associate Professor (Joined as Principal, Patkar College, Goregaon, Mumbai on 03/03/2015)	International Economics, Microeconomics	33	08
Shri. Vishal Gaikwad	M.A.	Assistant Professor	Financial Economics	03	-
Shri. Nikhil Thorat	M.A.	Assistant Professor	Development Economics	02	-
Ms. Lata Dhende	M.A.	Assistant Professor	Public Finance	06	-
Smt. Priyanka Patwardhan	M.A.	Assistant Professor	Development Economics	06	-

11. List of Senior Visiting Faculty: Nil

12. Percentage of Lectures delivered and practical classes handled (programme wise) by temporary faculty

Year	Total Workload of Department	Total Workload of Permanent Faculty	Lectures delivered by Temporary Faculty	
			Number	Percentage (%)
2010-2011	180 (152 + 28)	76	104 (40 + 64)	35
2011-2012	180 (152 + 28)	76	104 (40 + 64)	35
2012-2013	180 (152 + 28)	76	104 (40 + 64)	35
2013-2014	180 (152 + 28)	76	104 (40 + 64)	35
2014-2015	180 (152 + 28)	76	104 (40 + 64)	35

13. Student-Teacher Ratio (programme wise)

Level	Class	Number of Teachers	Student-Teacher Ratio
Undergraduate	B.A. Students Strength (F.Y. + S.Y. + T.Y.) / 6 (350 + 187 + 187) = 724 724/6 = 121	4	121/4 = 30:1
	M.A. Students Strength (Part-I + Part-II) (60 + 56) = 116	5	116/5 = 23:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Number of Support Staff (Lab Assistant and Lab Attendant)		
	Sanctioned	Filled
Peon	01	01

15. Qualification of Teaching Faculty with D.Sc./ D.Litt./ Ph.D./ M.Phil./ PG : PG - 06; Ph.D. - 03
16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil
17. Departmental Projects funded by DST-FIST; UGC, DBT, ICSSR, etc., and total grants received

Title of Project	Funding from DST-FIST/UGC XI Plan, XII Plan, DBT, Any Other	Grant received (Rs.)	
Globalization and Software Industry	UGC	70,000/-	
Trends and Responsiveness of Personal Income Tax in Pre and Post Liberalization Period	UGC-CPE (2011-2012)	40,000/-	
Globalization of Software Industry : The Case of the Pune Software Industry			
Working of Government Securities and Treasury Bills			
Hedonic Pricing of Mobile Phones in the Indian Market			
'Nobel Prize Winners in Economics'			
Trends and Structure of Personal Income Tax			
Assessment of Administration Capabilities and Performance of Panchayat Raj Institutions (PRIs)			
Analysis of Imports of Oil seeds and pulses			
Social Status of Muslim Women			UGC-CPE (2012-2013)
Informal Economy (Unorganized Sector)			
Migration & Effects on Pune city	UGC-CPE (2013-2014)		
Comparative study of Indian & American Economy			
A case study of Sula Winery	UGC-CPE (2014-2015)		
Financial Inclusion- Visible Hand- Government and Non Government Entities			
Sugar industry analysis : India and Mauritius			
Gramin Shetmajur Mahilaychya Aarthikva Samajik Samasya (Pune District, Velha Taluka)			
Industry sponsored Project on 'Microcity'	Volkswagen	2,00,000/-	
Total	18 Projects	3,10,000/-	

18. Research Centre/facility recognized by the University:
Recognition by SPPU Pune, Letter No. CA/857 Dated 22/04/2013

19. Publications

Name of Faculty	Papers			Books		Total Publications
	International	National	Proceedings	Inter-national	National	
Dr. Kalyani Kulkarni	-	-	4	-	-	4
Dr. Pradeep Apte	-	-	4	-	2	6
Dr. Surekha Rongate	-	2	3	-	1	6
Dr. Sharmishtha Matkar	2	1	12	1	3	19
Smt. Lata Dhende	4	-	2	-	-	6
Shri. Vishal Gaikwad	-	-	3	-	-	3
Total	6	3	28	1	6	44

20. Areas of Consultancy and Income generated

Nature of Consultancy	Name of the Industry/NGO/Institute or any Other	Income Generated, if any (Rs.)
Planning Commission on water resources	State Finance Commission	Honorary Consultancy

21. Faculty as members in a) National Committees b) International Committees c) Editorial Board

Name of Faculty Members	National Committee/International Committee/Editorial Board	Any other Committee/ Board
Dr. Pradeep Apte	i. Member, Third State Finance Commission Advisor, Planning Commission on water resources ii. Member, 'Expert Group for State Finance Commission' 13 th Finance Commission iii. Member, Memorandum Committee for 14 th Finance Commission Government of Maharashtra	i. Member, Board of Studies, Gokhale Institute of Politics and Economics ii. Member, Board of Studies, Symbiosis School of Economics and Invited for Drafting the report of the High Level committee on Regional Imbalance

22. Student projects:

a) Percentage of students who have done in-house projects including inter departmental/programme

Academic Year	Number of In-House Projects (UGC-CPE, UGC-BSR and PG Projects)	% of students involved against number of students enrolled for class
2010 - 2011	PG - 47	PG – 100%
2011 - 2012	UGC - CPE 08, PG - 50	PG – 100%
2012 - 2013	UGC - CPE 02, PG - 69	PG – 100%
2013 - 2014	UGC - CPE 02, PG - 56	PG – 100%
2014 - 2015	UGC - CPE 04, PG - 44	PG – 100%

- b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/ Industry/ other agencies

Academic Year	Number of outside Projects (Research Labs, Industry, NGO's etc.)	% of students involved against number of students enrolled for class
2013-2014	01	14

23. Awards/Recognitions received by faculty and students

Title of Award/Recognition	Name of Faculty/Student	Year
Shikshak Gaurav Puraskar	Dr. Sharmishtha Matkar	2011
Aadarsh Shikshak Puraskar		2014
Appointed as President of Professor Yamato Kawakami Foundation	Shri. Ajay Apte	2011
Winner in the Inter-college Kabaddi and Volleyball Tournament	Kalyani Jadhav	2011
First Prize in National Level Elocution Competition held in Orissa	Suryabhan Jadhav	2012
Late Shri. W. K. Joglekar and Shrimati R. W. Joglekar Prize	Himani Pathak	2013
Winners in, Vibrations (H. V. Desai College), Saptarang (Ness Wadia College Fest) Business Quiz Winner	Shantanu Gangakhedkar	2013
First Prize - MIT Elocution Competition	Summaiyya	2013
Second Prize in State Level Elocution Competition held at Azam Campus, Pune	Suryabhan Jadhav	2013
First Ruuner-Up Prize in State Level Quiz Competition in M. U. College, Pimpri	Kiran Thethe	2013

24. List of eminent academicians and scientists/visitors to the department

- Prof. Rajas Parchure, Gokhale Institute of Economics and Politics, Pune
- Dr. Vijay Kelkar, Pune, Chairman of National Institution of Public Finance and Policy, Govt. of India
- Dr. Nilambar Hatti, Emeritus Professor, LUND University, Sweden
- Dr. Sanjay Nandwani, Additional DGFT, Calcutta, Govt. Of India
- Prof. Neeraj Hatekar, Director and Professor, Mumbai University.

25. Seminars/Conferences/Workshops organized & the source of funding

Year	Title of Seminar/Conference/ Workshop	Funding Agency	Amount Sanctioned (Rs.)
2012-2013	Seminar on 'Maharashtra Economy, Challenges and Prospects	UGC	70,000/-
2014-2015	International Conference - Regional Trade Agreements, Preferential Trade Agreements and Indian Trade Policy	SPPU, Pune	3,00,000/-

26. Student profile programme/course wise: Undergraduate

Academic Year	Applications received	Selected	Enrolled		Pass percentage (%)
			M	F	
2010-2011	193	98	55	43	84
2011-2012	244	117	60	57	86
2012-2013	401	197	110	97	89
2013-2014	350	192	109	89	85
2014-2015	364	187	109	78	Results Awaited

Postgraduate

Academic Year	Applications Received	Selected	Enrolled		Pass percentage (%)
			M	F	
2010-2011	87	62	42	20	77
2011-2012	85	69	44	25	80
2012-2013	88	60	23	37	64
2013-2014	166	60	44	16	72
2014-2015	112	60	32	28	Results Awaited

27. Diversity of Students: Undergraduate

- Subject wise data on student diversity is not available. Data on overall diversity of students is given in Point No. 22 of Institutional Profile.

Postgraduate

Academic Year	% of students from same state	% of students from other states	% of students from abroad
2010-2011	80	5	15
2011-2012	80	5	15
2012-2013	80	5	15
2013-2014	80	18	11
2014-2015	80	12.5	9

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.?: NET - 05, UPSC – 05

29. Student progression

Student progression	Against % enrolled
UG to PG	70%
PG to M.Phil.	10%
PG to Ph.D.	5%
Ph.D. to Post-Doctoral	-
Employed	
• Campus selection	15%
• Other than campus recruitment	70%
Entrepreneurship/Self-employment	-

30. Details of Infrastructural facilities:
- Library (Departmental Library): Area - 150 sq.ft.;
Number of Books - 1646; Number of Journals Subscribed - 13
 - Internet facilities for Staff & Students:
Computers with Internet - 06
 - Classrooms with ICT facility - 02 (Classrooms)
 - Laboratories: Research Laboratory - 150 sq.ft.
31. Number of students receiving financial assistance from college, university, Government or other agencies
- An average of 60% students get financial assistance from Central/ State Government agencies in the form of Scholarship/Freeship
32. Details on student enrichment programmes (special lectures/ workshops/seminar) with external experts

Year	Title/Type of Programme	Names of Resource Person(s) (External)
2013 - 2014	Current Challenges in Indian Economy	Prof. Rajas Parchure, Director, GIP, Pune
	Privacy Preserving Analytics and Collaboration	Dr. Jaideep Vaidya, Professor, Rutgers University, USA
	Investor Awareness Program and advantages of DMat	Smt. Ashwini Thorat – Khedkar
	Economic Journalism	Ms. Ishita Ghoshal, Symbiosis School of Economics
	On Thinking Process in Research	Shri. Krishnakanta Roy, Symbiosis School of Economics
	Writing with Style	Smt. Sulabha Sidhaye, Visiting Lecturer, Pune
	Study Tours: Volkswagen, Chakan, Pune and Mapro Foods, Processing Factory, Panchgani	-
2014 - 2015	Review of Literature	Dr. Meenal Oak, Professor, SPPU, Pune
	Building Vocabulary	Prof. N. D. Apte, Former Professor, B.M.C.C., Pune
	Business Management and Economics	Prof. Mark Fisher, Professor, University of Sussex
	Let's talk Innovation	Shri. Subroto Bagchi
	Creating a Mind Set For Happiness and Success through Positive Thinking	Dr. Vijay Rana

33. Teaching methods adopted to improve student learning:
- Lecture method
 - Question - Answer method
 - Discussion and Debate
 - Weekly Tests
 - Presentations on published articles
 - Drawing diagrams and explaining them

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

- Rishi Hapawat worked in Social Outreach Programmes in 2013–2014
- Disha Ugile worked in Social Outreach Programmes in 2013–2014 and with Hutatma Rajguru School, Pandav Nagar
- Sayed Sumaiya worked with Hutatma Rajguru School, Pandav Nagar, Teach for India Volunteer, 2012
- Tanya Gupta worked with Art of Living Foundation, Rotaract Club and NSS member, 2013
- Pratik Kamble volunteered for Pratham Education Foundation, 2013-2014
- Rik Shome worked with Art of Living volunteers for better India
- Divyesh Sonawane worked with Parivartan NGO for Voter registration, Youth day and Voter awareness drive, 2014.

35. SWOC analysis of the department and Future plans

Strengths:	
1.	Students with good academic performance and well defined aspirations
2.	Recognized Research Centre
3.	Diversified academic exposure beyond narrow bounds of the university syllabus
Weaknesses:	
1.	Limitations of physical infrastructure
2.	Limitations imposed by university syllabus
Opportunities:	
1.	Increasing demand for better quality of ‘learning economics’
2.	Several modularized courses for different segments of the society are being requested
3.	Research activity can be further deepened and expanded
Challenges:	
1.	Enlarged human resource availability
2.	Overcoming constraints of physical infrastructure
3.	Increased competition from other institutions offering B.Sc. and M.Sc. programmes in Economics

Future Plans

- Increasing demand for better quality of ‘learning economics’
- Modularized courses for different segments for stakeholders (Financial Economics, Share market, Econometrics, NET-SET)
- Extension of Research to the Society
- Multidisciplinary research in collaboration with other departments as well as with other institutions and academic alliances.



1. Name of the Department: **English**
2. Year of Establishment: Undergraduate -1885
Postgraduate - 1969
3. Names of programmes/courses offered: B.A. and M.A.
4. Names of Interdisciplinary Courses and department/units involved: Nil
5. Annual/Semester/Choice based Credit system (programme wise): B.A. - Annual, M.A. – CBCS
6. Participation of the department in the courses offered by other departments: Nil
7. Courses in collaboration with other Universities, Industries, Foreign Institutions, etc.: Nil
8. Details of courses/ programmes discontinued (if any) with reasons: Nil
9. Number of Teaching Posts

Undergraduate/Postgraduate	Sanctioned	Filled
Associate Professors	03	03
Assistant Professors	06	05
Assistant Professors (Temporary)	-	02

10. Faculty Profile:

Name	Qualification	Designation	Specialization	Experience (Years)	No. of Ph.D.s guided
Smt. Kajal Chakravarti	M.A., M.Phil.	Associate Professor	British Literature	34	-
Dr. Sujata Bamane	M.A., B.Ed., Ph.D.	Associate Professor	British Literature, Indian Writing in English	17	03 (ongoing)
Dr. Arjun Jadhav	M.A., M.Phil. Ph.D.	Associate Professor	Linguistics	14	06 (completed)
Shri. Chetan Sonavane	M.A.	Assistant Professor	Indian Writing in English	13	-
Shri. Shardool Thakur	M.A., M.Phil.	Assistant Professor	Literary Theory	12	-
Dr. Chitra Shreedharan	M.A., M.Phil., Ph.D.	Assistant Professor	English Fiction, American Literature	20	03 (ongoing)
Shri. Prasanna Deshpande	M.A.	Assistant Professor	British Literature, Immigrant Fiction	09	-
Dr. Madhuri Gokhale	M.A., M.Phil., Ph.D.	Assistant Professor	Linguistics	14	04 (ongoing)

Smt. Anuradha Dandekar	M.A., M.Phil.	Assistant Professor	Linguistics	05	-
Smt. Sarika Vaze	M.A.	Assistant Professor	British Literature	03	-

11. List of Senior Visiting Faculty: Nil
12. Percentage of Lectures delivered and practical classes handled (programme wise) by temporary faculty:

Year	Total Work load of department	Total workload of Permanent faculty	Lectures delivered by Temporary Faculty	
			Number	Percentage (%)
2010-2011	180	152	28	15.5
2011-2012	184	172	12	6.5
2012-2013	188	172	16	8.5
2013-2014	204	134	70	34
2014-2015	204	134	70	34

13. Student-Teacher Ratio (programme wise):

Level	Class	Number of Teachers	Student-Teacher Ratio
Undergraduate	B.A. Students Strength (F.Y. + S.Y. + T.Y.) / 6	5	64/5 = 13:1
	(227 + 78 + 78) = 383 383/6 = 64		
Postgraduate	M.A. Students Strength (Part-I + Part-II)	5	112/5 = 22:1
	(60 + 52) = 112		

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: Nil
15. Qualification of teaching faculty: Ph.D. – 04; M.Phil. – 02; PG - 03
16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil
17. Departmental Projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received:

Title of Project	Funding from DST-FIST/UGC XI Plan, XII Plan, DBT, Any Other	Grant received (Rs.)
Science Fiction	UGC-CPE	20,000/-
Use of a VCD to teach Meter in poetry	UGC-CPE	
Effect of reading literature on the emotional quotient of the reader	UGC-CPE	

18. Research Centre/facility recognized by the University: Nil

19. Publications

Name of Faculty	Papers			Books	Total Publications
	International	National	Proceedings	Book Articles	
Dr. Sujata Bamane	2	4	2	-	8
Dr. Arjun Jadhav	6	0	-	6	12
Dr. Madhuri Gokhale	9	6	-	-	15
Total	17	10	2	6	35

20. Areas of Consultancy and Income generated: Nil

21. Faculty as members in a) National Committees b) International Committees c) Editorial Board: Nil

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental/programme: UGC-CPE 03

Academic Year	Number of In-House Projects (UGC-CPE, UGC-BSR and PG Projects)	% of students involved against number of students enrolled for class
2011-2012	03	01

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/ Industry/ other agencies: Nil

23. Awards/Recognitions received by faculty and students:

Title of Award/Recognition	Name of Faculty/ Student	Year
Scholarship to represent India at Globe Theatre, London	Dr. Madhuri Gokhale	2011
Best Innovative Teacher Award	Dr. Madhuri Gokhale	2013
Young India Scholarship	Garima Punia	2014
DAAD Scholarship	Mrunnmayi Sathe	2014
One Year Fellowship (2012 Near East & South Asia Undergraduate Exchange Program) to study in the USA International Funded Scholarship	Semanti Ray	2012

24. List of eminent academicians and scientists/visitors to the department: Nil

25. Seminars/Conferences/Workshops organized & the source of funding:

Year	Title of Seminar/Conference/Workshop	Funding Agency	Amount Sanctioned (Rs.)
2010-2011	State Level Workshop 'Preparing for SET/NET exams in English'	BCUD-SPPU	50,000/-
2010-2011	University level lecture series 'Interdisciplinary Criticism'	SPPU, Pune	25,000/-
2010-2011	College Level, Lecture series 'Preparing for SET/NET exams in English'	UGC	-
2011-2012	College Level 'A remedial Course in English'	UGC XI Plan	16,000/-
2011-2012	College level A lecture series 'Emerging Career Opportunities in English'	UGC XI Plan	10,000/-
2011-2012	State Level Workshop 'Holistic Healing: A Journey to Optimal Wellness'	BCUD	25,000/-
2012-2013	College Level Workshop	CPE	10,000/-
2013-2014	College level Lecture Series 'English Proficiency'	(UGC/CPE)	12,000/-

26. Student profile programme/course wise: Undergraduate:

Academic Year	Applications received	Selected	Enrolled		Pass percentage (%)
			M	F	
2010-2011	51	29	15	14	92
2011-2012	76	67	30	37	87
2012-2013	97	90	42	48	91
2013-2014	75	65	24	41	91
2014-2015	80	78	30	48	Results Awaited

Postgraduate:

Academic Year	Applications received	Selected	Enrolled		Pass percentage (%)
			M	F	
2010-2011	240	64	33	31	98
2011-2012	220	59	32	27	85
2012-2013	200	48	21	27	64
2013-2014	230	58	33	25	79
2014-2015	225	54	26	28	Result Awaited

27. Diversity of Students: Undergraduate:

- Subject wise data on student diversity is not available. Data on overall diversity of students is given in Point No. 22 of Institutional Profile.

Postgraduate:

Academic Year	% of students from same state	% of students from other states	% of students from abroad
2010-2011	75	10	15
2011-2012	79	8	13
2012-2013	84	8	8
2013-2014	82	3	15
2014-2015	92	3	10

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.?: NET - 04, UPSC - 01, SET – 06, MPSC – 02

29. Student progression:

Student progression	Against % enrolled
UG to PG	15
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed	
• Campus selection	
• Other than campus recruitment	15
Entrepreneurship/Self-employment	-

30. Details of Infrastructural facilities:

- Library (Departmental Library): Number of Books - 828; Number of Journals Subscribed - Nil
- Internet facilities for Staff & Students: Computers with Internet - 02
- Classrooms/Laboratories with ICT facility – 01
- Laboratories: Nil

31. Number of students receiving financial assistance from college, university, Government or other agencies:

- An average of 60% students get financial assistance from Central/ State Government agencies in the form of Scholarship/Freeship

32. Details on student enrichment programmes (special lectures/ workshops/seminar) with external experts:

Year	Title/Type of Programme	Names of Resource Person(s) (External)
2010-2011	State-level workshop on 'Preparing for SET/NET exams in English'	Dr. Kumar Iyer, Former Head, T. C. College, Baramati Dr. Shridhar Gokhale, Former Head, Department of English, SPPU, Pune Dr. M. V. Madge, Waghire College, Saswad

	<p>A lecture series sponsored by the University of Pune on 'Interdisciplinary Criticism'.</p> <p>A lecture series under UGC XI Plan on 'Preparing for SET/NET exams in English'.</p>	<p>Dr. Shirish Chindadhe, Former Principal, M. U. College of Commerce and Arts, Pimpri Dr. Khan, Head of Department of English, Poona College Dr. M. A. Shaikh, Former Principal, Satara College Dr. B. R. Shejwal, Head, Department of Psychology, SPPU, Pune Shri. Vijay Kunjeer, Unique Academy Dr. Vidyut Bhagwat, Head, Department of Womens' Studies, SPPU, Pune Shri. Mangesh Kulkarni, Professor, Department of Political Science, SPPU, Pune</p> <p>Dr. Supriya Shasrabudhe, Head, Department of English, Modern College, University Gate, Pune Dr. Anand Kulkarni, Professor, Arts and Science College, Narayangaon Dr. Janardan Nair, Professor, C. T. Bora College, Shirur Dr. Shirish Chindadhe, Former Principal, M. U. College of Commerce and Arts, Pimpri</p>
2011-2012	<p>A lecture on 'The Future of Englishes'</p> <p>A talk on Career Opportunities in English</p> <p>A remedial Course in English</p> <p>A lecture series on Emerging Career Opportunities in English</p>	<p>Dr. Rosemary Douglas, University of Edinburgh, Scotland Smt. Shumita Mahajan, Sakal, Pune</p> <p>Smt. Ratna Lahiri, Former Senior Teacher from BARC school , Mumbai Prof. Vishram Dhole Shri. Abhinav Patil Shri. Bhaktiprasad Deshmane, Professional corporate Trainers Shri. Vikram Pandit</p>
2012-2013	<p>Study tour to Deccan College for T.Y.B.A. special English students</p>	-
2013-2014	<p>A lecture series on 'English Proficiency'</p>	<p>Shri. Amol Bapat, Professional Corporate Trainers Shri. Atul Patil, Teacher in ELTIS Dr. Shridhar Gokhale, Former Professor, Department of English, SPPU, Pune Smt. Bidisha Bhaduri, Professional Corporate Trainers</p>
2014-2015	<p>Course in writing skills in English for postgraduate students</p>	<p>Dr. Shilpagauri Ganpule, Associate Professor, Ramakrishna More College, Pune Prof. Atul Patil, Assistant Professor, COEP, Pune. Prof. Umashankar Devadhe, Lecturer, Vikhe Patil School, Pune</p>

33. Teaching methods adopted to improve student learning:

- Interaction
- Presentations
- Seminar method
- Remedial teaching
- Film Screening

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

- International Students' Cell committee, Gymkhana Committee, DES Shikshan Vivek Committee.

35. SWOC analysis of the department and Future plans:

Strengths:	
1.	The only grant-in-aid post graduate department for English in Pune city apart from SPPU English Department.
2.	Maximum number of options available for PG as compared to other PG centres under SPPU, Pune
3.	Language lab and good amount of Audio-visual material available in the form of CDs/DVDs
4.	Good stock of books in departmental library
Weaknesses:	
1.	No separate space for department library
2.	Two small department rooms
Opportunities:	
1.	High market value and demand
2.	Multiple career opportunities for students
3.	Scope for developing value added courses like Content Writing/ Technical Writing, Business Communication, Mass Communication and Soft skills.
Challenges:	
1.	Improving linguistic competence of students from rural areas and international students.
2.	Improving research output

Future Plan

- Setting up a recognised Research Centre



1. Name of the Department: **French**
2. Year of Establishment: 1944
3. Names of programmes/courses offered: B.A.
4. Names of Interdisciplinary Courses and department/units involved:
Nil
5. Annual/Semester/Choice based Credit system (programme wise):
B.A. - Semester
6. Participation of the department in the courses offered by other departments: Nil
7. Courses in collaboration with other Universities, Industries, Foreign Institutions, etc.: Nil
8. Details of courses/programmes discontinued (if any) with reasons:
Nil
9. Number of Teaching Posts:

Undergraduate	Sanctioned	Filled
Assistant Professor	01	-
Assistant Professor (Temporary)	-	02

10. Faculty profile:

Name	Qualification	Designation	Specialization	Experience (Years)
Smt. Jaya Gadgil	M.A.	Assistant Professor (In-Charge)	French	35
Smt. Vinodani Franklin	M.A.	Assistant Professor	French	03

11. List of Senior Visiting Faculty: Nil
12. Percentage of Lectures delivered and practical classes handled (programme wise) by temporary faculty:

Year	Total Workload of Department	Total Workload of Permanent Faculty	Lectures delivered by Temporary Faculty	
			Number	Percentage (%)
2010-2011	32	18	14	44
2011-2012	32	18	14	44
2012-2013	32	18	14	44
2013-2014	32	18	14	44
2014-2015	32	-	32	100

13. Student-Teacher Ratio (programme wise):

Level	Class	Number of Teachers	Student-Teacher Ratio
	B.A. Students Strength (F.Y. + S.Y. + T.Y.) / 6		
Undergraduate	(96 + 12 + 12) = 120 120/6 = 20	2	20/2 = 10:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: Nil

15. Qualification of Teaching Faculty with D.Sc./ D.Litt./ Ph.D./ M.Phil./ PG: PG - 02

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil

17. Departmental Projects funded by DST-FIST; UGC, DBT, ICSSR, etc., and total grants received:

Title of Project	Funding from DST - FIST/ UGC XI Plan, XII Plan, DBT, Any Other	Grant received (Rs.)
Music CD – Indian Music	UGC-CPE (2012 – 2013)	5,000/-
Charts and Models	UGC-CPE (2013 – 2014)	5,000/-
Development of a Pedagogical Game	UGC-CPE (2014 – 2015)	5,000/-

18. Research Centre/facility recognized by the University: Nil

19. Publications: Nil

20. Areas of Consultancy and Income generated: Nil

21. Faculty as members in a) National Committees b) International Committees c) Editorial Boards:

Name of Faculty Members	National Committee/ International Committee/Editorial Board	Any other Committee/Board
Smt. Jaya Gadgil	General Secretary Indian Association of Teachers of French (IATF)	i. Subject Expert, Board of Studies in French, SPPU, Pune ii. Subject Expert, Board of Studies in French, Symbiosis College of Arts and Commerce, Pune iii. Subject Expert, Board of Secondary and Higher Secondary Education, Pune iv. Expert Language Committee for Std 8 th French Text Book, Maharashtra State Bureau of Textbook Production and Curriculum Research, Pune

22. Student projects

- a) Percentage of students who have done in-house projects including inter departmental/programme:

Academic Year	Number of In-House Projects (UGC-CPE, UGC-BSR and PG Projects)	% of students involved against number of students enrolled for class
2010-2011	-	-
2011-2012	-	-
2012-2013	01	12%
2013-2014	01	16%
2014-2015	01	33%

- b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/other agencies: Nil

23. Awards/Recognitions received by faculty and students:

Title of Award/ Recognition	Name of Faculty/ Student	Year
Winner of Fiche pedagogique - “dis-moi dix mots” – Third Prize	Smt. Jaya Gadgil	2013-2014
Certified examiner for the International DELF/DALF Exams	Smt. Jaya Gadgil	2014-2015

24. List of eminent academicians and scientists/visitors to the department:

- Prof. Florence Petit, Morlaix, France
- Prof. J. L. Maze, Morlaix, France
- Prof. Michael Roue, Morlaix, France
- Dr. Cecile Cortes, Compiègne, France
- Prof. Odile Caron, Compiègne, France
- Dr. Nivedita Bhattacharjee, Kolkatta
- Dr. Roma Kriplani, Former Head of French Department, SPPU, Pune
- Prof. Joelle, Duvauchelle, France
- Smt. Vaiju Naravane, Journalist now based in Paris
- Mr. Valentin Moisan Attaché de cooperation, French Embassy
- Prof. Christian Rodier Attaché Linguistique, French Embassy
- Prof. Dr. Genevieve Baraona France
- Prof. Sunil Ganu, Alliance Française de Pune
- Ms. Kajal Ambedkar, Proprietor Wholly Crepes, Pune
- Prof. Sophie Henquinet, Attaché Linguistique French Embassy
- Mr. Jean-claude et Claudine, Breton AADI France
- Ms. Delphine Bechetoille France
- Prof. Natalie Troncet Aix en Provence France
- Prof. Ghislaine Peyrano Aix en Provence France
- Ms. Rashmi Arvikar, Campus France

25. Seminars/ Conferences/ Workshops organized & the source of funding:

Year	Title of Seminar/ Conference/Workshop	Funding Agency	Amount Sanctioned (Rs.)
2014-2015	Grammar Skills - Day Conference for Teachers of French from Mumbai/Pune	French Embassy /IATF	-
2014-2015	Literature Les Journees Duras – 3 days State Level Conference/Film Show/creative writing Workshop	IATF/SSPU/ EMBASSY OF FRANCE/AFP/ SIFIL	-
2014-2015	Study Abroad - Fergusson College French students from Junior and Senior college	Campus France	-

26. Student profile programme/course wise: Undergraduate:

Academic Year	Applications received	Selected	Enrolled		Pass percentage (%)
			M	F	
2010-2011	06	06	-	06	100
2011-2012	03	03	-	03	100
2012-2013	08	06	-	06	100
2013-2014	04	04	-	04	100
2014-2015	12	12	-	12	100

27. Diversity of Students: Undergraduate

- Subject wise data on student diversity is not available. Data on overall diversity of students is given in Point No. 22 of Institutional Profile.

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc?: Nil

29. Student progression:

Student progression	Against % enrolled
UG to PG	80%
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed	50% students joined companies
• Campus selection	
• Other than campus recruitment	
Entrepreneurship/Self-employment	5 % are Self-employed

30. Details of Infrastructural facilities:
- Library (Departmental Library): Number of Books - 450; Number of Magazines - 50; Number of Manuals – 50;
 - Internet facilities for Staff & Students: Computers with Internet – 01
 - Classrooms/Laboratories with ICT facility – 01 Classroom with 01 Smart T.V.
31. Number of students receiving financial assistance from college, university, government or other agencies:
- An average of 60% students get financial assistance from Central/ State Government agencies in the form of Scholarship/Freeship
32. Details on student enrichment programmes (special lectures/ workshops/seminar) with external experts:

Year	Title/Type of Programme	Names of Resource Person(s) (External)
2011-2012	Business French	Smt. Jaya Gadgil
2014-2015	Les Journees Duras Literature/creative writing	Dr. Genevieve Baraona, Professor, Symbiosis – SIFIL, France
2014-2015	Cine Duras	Dr. Genevieve Baraona, Professor, Symbiosis – SIFIL, France
2014-2015	Educational opportunities in France and Europe	Smt. Rashmi Arvikar, Campus France

33. Teaching methods adopted to improve student learning - directly in French:
- **WHATSAPP** - Virtual Conversation between students of Pune, Fergusson College and Morlaix France
 - **Language Laboratory** - Conversation practice
 - **Power point presentations** in French on themes related to syllabus
 - **Debates and discussions** in class on current events
 - **Elocution songs and theatre** - based on course authors.
34. Participation in Institutional Social Responsibility (ISR) and Extension activities: Nil

35. SWOC analysis of the department and Future plans:

<p>Strengths:</p> <ol style="list-style-type: none"> 1. The French Department has a rich heritage and great support from the French Embassy and the National French Association IATF 2. A small group of students enables a greater rapport and a one to one relationship between students and teacher and the department is like a home away from home 3. The Exchange Programme, which is the flagship event of the department and is going on for the last 25 years with tremendous vigour. 4. A well-stocked library 5. Teaching with new technologies - Smart T.V. in Department
<p>Weakness:</p> <ol style="list-style-type: none"> 1. No subscriptions to international journals nor updation of novels due to high prices in Euros
<p>Opportunities:</p> <ol style="list-style-type: none"> 1. International collaboration with schools and colleges in France under the Exchange programme 2. International exposure to students through the exchange programme and immersion in the culture of the country whose language is being learnt 3. Career oriented courses are being designed, which are beneficial for students for their career
<p>Challenges:</p> <ol style="list-style-type: none"> 1. Increasing Student strength 2. Need to revise and change the curricula to meet the needs of today's corporate world. (e.g. Translation skills, Business French)

Future Plans

Taking into consideration the changing scenario in today's world, firstly, it is imperative that the courses be **adapted** accordingly and secondly, to help increase the **employability** of the students after having studied a foreign language:

- Introduce new courses like Business French, courses in Translation and Creative writing/ restaurant /travel/ tourism/ fashion/ preparation for international exams like DELF/DALF
- Develop language lab activities to improve spoken French skills
- Collaborate with French institutions/schools/colleges/to promote exchange programmes and teacher training
- Conversation classes
- **Interact with French companies**, call centres to help increase **employability** of students, **internships**, etc.



1. Name of the Department: **Geography**
2. Year of Establishment: 1946
3. Names of programmes/courses offered: B.A. – General
4. Names of Interdisciplinary Courses and department/units involved: Nil
5. Annual/Semester/Choice based Credit system (programme wise): Undergraduate - Annual
6. Participation of the department in the courses offered by other departments: Nil
7. Courses in collaboration with other Universities, Industries, Foreign Institutions, etc.: Nil
8. Details of courses/programmes discontinued (if any) with reasons: Nil
9. Number of Teaching Posts:

Undergraduate	Sanctioned	Filled
Associate Professors	01	01
Assistant Professors (Temporary)	-	01

10. Faculty profile:

Name	Qualification	Designation	Specialization	Experience (Years)
Dr. Sanjeev Nalavade	M.A., M.Phil., Ph.D.	Head and Associate Professor	Biogeography, Urban Environmental Issues	34
Ms. Anuradha Raigavhankar	M.A., M.Ed. M.Sc.	Assistant Professor	GIS and Remote Sensing	01

11. List of Senior Visiting Faculty: Nil
12. Percentage of Lectures delivered and practical classes handled (programme wise) by temporary faculty:

Year	Total Work load of department	Total workload of Permanent faculty	Lectures delivered by temporary faculty	
			Number	Percentage (%)
2010-2011	24	18	06	25
2011-2012	24	18	06	25
2012-2013	24	18	06	25
2013-2014	24	18	06	25
2014-2015	24	18	06	25

13. Student-Teacher Ratio (programme wise):

Level	Class	Number of Teachers	Student-Teacher Ratio
	B.A. Students Strength (F.Y. + S.Y. + T.Y.) / 6		
Undergraduate	231 + 130 + 120 = 481 481/6 = 80	2	80/2 = 40:1

14. Number of academic support staff (technical) and administrative staff; Sanctioned and Filled: Nil

15. Qualification of teaching faculty: PG - 01, Ph.D. - 01

16. Number of faculty with ongoing projects from a) National
b) International funding agencies and grants received: 01

Duration	Name of Faculty	Title of Project	Name of Funding Agency	Grant received (Rs.)	Status (Minor/Major)
2012 – 2014	Dr. Sanjeev Nalavade	Study of ecology & conservation of geckos around Tamhini (Mulshi), Pune district using GIS	BCUD-SPPU	1,70,000/-	Minor
2015 – 2017	Dr. Sanjeev Nalavade	Developing an atlas of wild mammals of Pune district titled- 'An Atlas of Wild Mammals of Pune district (MS), India'	BCUD-SPPU	90,000/-	Minor

17. Departmental Projects funded by DST-FIST; UGC, DBT, ICSSR, etc., and total grants received:

Title of Project	Funding from DST-FIST/ UGC XI Plan, XII Plan, DBT, Any Other	Grant received (Rs.)
A Survey of Avifauna of Fergusson College Campus, Pune	UGC- CPE	20000/-
Development of Educational Posters	UGC- CPE	9000/-
Mapping Flying fox roosting colonies around Pune	UGC- CPE	10000/-
Total	03	39,000/-

18. Research Centre/facility recognized by the University: Nil

19. Publications:

Name of Faculty	Papers	Total Publications	Total Citation	h-Index
	Proceedings			
Dr. Sanjeev Nalavade	4	4	4	1
Total	4	4	4	1

20. Areas of Consultancy and Income generated: Nil
21. Faculty as members in a) National Committees b) International Committees c) Editorial Board: Nil
22. Student projects:
- a) Percentage of students who have done in-house projects including inter departmental/programme: UG – 03

Academic Year	Number of In-House Projects (UGC-CPE, UGC-BSR and PG Projects)	% of students involved against number of students enrolled for class
2010-2011	-	-
2011-2012	01	4%
2012-2013	-	-
2013-2014	02	0.25%
2014-2015	-	-

- b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies: Nil

23. Awards/Recognitions received by faculty and students:

Title of Award /Recognition	Name of Faculty / Student	Year
Filchner Prize	Shivani Bankar and Avishkar Bhaware	2010-2011
Filchner Prize	Pramod Mandale	2011-2012
Filchner Prize	Bhagyashri Patil	2012-2013
Filchner Prize	Nidhi Bhasin	2013-2014
Filchner Prize	Nikita Gadre	2014-2015

24. List of eminent academicians and scientists/visitors to the department: Nil
25. Seminars/Conferences/Workshops organized & the source of funding: Nil
26. Student profile programme/course wise: Undergraduate:

Academic Year	Applications received	Selected	Enrolled		Pass percentage (%)
			M	F	
2010-2011	76	76	38	38	99
2011-2012	103	103	56	47	99
2012-2013	130	130	71	59	97
2013-2014	129	129	81	48	98
2014-2015	154	154	99	55	Results awaited

27. Diversity of Students: Undergraduate
- Subject wise data on student diversity is not available. Data on overall diversity of students is given in Point No. 22 of Institutional Profile.
28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil Services, Defence services, etc.?: Nil
29. Student progression: Subject taught as general level.
30. Details of Infrastructural facilities:
- Library (Departmental Library): Number of Books- 500
 - Internet facilities for Staff & Students:
Computers with Internet – 01
 - Classrooms with ICT facility - Nil
31. Number of students receiving financial assistance from college, university, Government or other agencies: on average
- An average of 60% students get financial assistance from Central / State Government agencies in the form of Scholarship / Freeship
32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts:

Year	Title/ Type of Programme	Names of Resource Person(s) (External)
2010-2011	Geography Association activity	Col. (Retired) Shri. Pramod P. Marathe
2012-2013	Geography Association activity	Ms. Mrunal Joshi, Education Head, Thomas Cook, Pune. Shri. Anil Dandekar, Former Principal, MIT, Pune.
2013-2014	Geography Association activity	Shri. Akash Srinivas, Department of Archaeology, Deccan College Research Institute, Pune.
2014-2015	Geography Association activity	Shri. Akash Srinivas, Department of Archaeology, Deccan College Research Institute, Pune. Shri. Chandrakant Wakankar, Chief Education Officer (Retired)WWF-India

33. Teaching methods adopted to improve student learning:
- Question and Answer
 - Presentations by students
 - Group discussions
 - Field visits/Excursions
 - Projects & home assignments

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

- Village survey by students during the NSS winter camp. So far three villages from Pune district surveyed: Gaware Wadi, Andeshe and Mogarwadi.

35. SWOC analysis of the department and Future plans:

Strengths: <ol style="list-style-type: none">1. Good student strength: Subject popular among students at general level2. Good collection of reference books on Human Geography3. GeoInfo Cell for providing any geographical information free of cost
Weaknesses: <ol style="list-style-type: none">1. Subject not taught as a special subject2. Few Journals available
Opportunities: <ol style="list-style-type: none">1. Freedom to update present/devise new syllabi (In case the college becomes autonomous in the near future)2. Possibility of introducing the subject at special level4. Rising importance of the subject world over, thanks to Globalization5. Collaboration with other institutes, NGOs, etc.
Challenges: <ol style="list-style-type: none">1. Competition with other subjects2. Surviving as a single, general-level subject3. Challenge of syllabi formulation under autonomy

Future plans

- To introduce new syllabi at Undergraduate level under Autonomy
- To introduce Geography as a major subject at B.A. level
- To start an add-on course in 'Field Geography'.



1. Name of the Department: **German**
2. Year of Establishment: 1918
3. Names of Programmes/Courses offered: B.A.
4. Names of Interdisciplinary Courses and department/units involved:
Nil
5. Annual/Semester/Choice based Credit system (programme wise): B.A.
– Annual
6. Participation of the department in the courses offered by other departments: Nil
7. Courses in collaboration with other Universities, Industries, Foreign Institutions etc.: Nil
8. Details of courses/programmes discontinued (if any) with reasons: Nil
9. Number of Teaching Posts:

Undergraduate	Sanctioned	Filled
Assistant Professors	01	01
Assistant Professors (Temporary)	-	01

10. Faculty profile:

Name	Qualification	Designation	Specialization	Experience (Years)
Smt. Amruta Kulkarni	M.A., M.Phil.	Assistant Professor	Didactics of German literature and post-war History of Germany	10
Smt. Gauri Brahme	M.A.	Assistant Professor	Didactics of German as a foreign language	08

11. List of Senior Visiting Faculty: Nil
12. Percentage of Lectures delivered and practical classes handled (programme wise) by temporary faculty:

Year	Total Workload of Department	Total Workload of Permanent Faculty	Lectures delivered by Temporary Faculty	
			Number	Percentage (%)
2010-2011	32	20	12	37.5
2011-2012	32	20	12	37.5
2012-2013	32	20	12	37.5
2013-2014	32	20	12	37.5
2014-2015	32	20	12	37.5

13. Student-Teacher Ratio (programme wise):

Level	Class	Number of Teachers	Student-Teacher Ratio
	B.A. Students Strength (F.Y. + S.Y. + T.Y.) / 6		
Undergraduate	(116 + 16 + 16) = 148 148/6 = 25	2	25/2 = 13:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: Nil

15. Qualification of teaching faculty with D.Sc./D.Litt./Ph.D./M.Phil./PG: PG – 01; M.Phil. - 01

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil

17. Departmental Projects funded by DST-FIST; UGC, DBT, ICSSR, etc., and total grants received:

Title of Project	Funding from DST-FIST/UGC XI Plan, XII Plan, DBT, Any Other	Grant received (Rs.)
Post war history of Germany	UGC-CPE (2010 - 2011)	10,000/-
Opportunities of higher education in German speaking countries		
Die Verwandlung: A Symphony of Philosophy and German literature	UGC-CPE (2014 - 2015)	1,500/-

18. Research Centre/facility recognized by the University: Nil

19. Publications:

Name of Faculty	Papers	Books		Total Publications
	National	National	Book Articles	
Smt. Amruta Kulkarni	2	1	2	5
Total	2	1	2	5

20. Areas of Consultancy and Income generated: Nil

21. Faculty as members in a) National Committees b) International Committees c) Editorial Boards:

Name of Faculty	National Committee/International Committee/Editorial Board	Any other Committee/Board
Smt. Amruta Kulkarni	Member of Core Committee of GIP (German Partner Universities) Partnership between SPPU, Pune, Mumbai and Göttingen, Germany	-

22. Student projects:

- a) Percentage of students who have done in-house projects including inter departmental/programme: UGC-CPE – 03

Academic Year	Number of In-House Projects (UGC-CPE, UGC-BSR and PG Projects)	% of students involved against number of students enrolled for class
2010-2011	02 (UGC-CPE)	33%
2011-2012	-	-
2012-2013	-	-
2013-2014	-	-
2014-2015	01 (UGC-CPE)	5%

- b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies: Nil

23. Awards/Recognitions received by faculty and students:

Title of Award/Recognition	Name of Faculty/Student	Year
DAAD Fellowship for Academic Visit to University of Göttingen for 3 months	Smt. Amruta Kulkarni (Faculty)	2012-2013
Erasmus Mundus Scholarship for studying at a German University for 10 months	Sneha Mahajan Ketki Karandikar	2010-2011
Winner in International German Essay Competition organized by DAAD (German Academic Exchange Service)	Aditi Biche Purva Deshapande Alakata Abhyankar	2011-2012
Winner in International German Essay Competition organized by DAAD (German Academic Exchange Service)	Anuja Godbole	2013-2014
Outstanding Performance in State Level German Essay and Extempore Competition (Scholarship by Max Mueller Bhavan, Pune for one month's German Language Course at a German University)	Rujuta Tilekar	2013-2014
Winner in International German Essay Competition (German Academic Exchange Service)	Mrunmayee Sathye	2014-2015

24. List of eminent academicians and scientists/visitors to the department:

- Mr. Michael Flucht, Director of Max Mueller Bhavan, Pune
- Dr. Pramod Talgeri (Retired Prof from JNU, Delhi, presently Vice Chancellor, India International Multiversity)
- Mr. Michael Siebert, Honorable Consul General of Federal Republic of Germany
- Mr. Michael Ott, Deputy Consul General of Federal Republic of Germany
- Dr. Wolfgang Franz, Director, Goethe Institute, Max Mueller Bhavan, Pune
- Dr. Phillip Thomas, University of Tübingen, Germany
- Ms. Evelyn Regenfus, University of Munich, Max Mueller Bhavan, Pune

- Dr. Neeti Badwe, Retired Professor and former Head of the Department of German, SPPU, Pune
- Ms. Renate Hofmann and Mr. Johannes Hofmann, Resource persons for the conference ‘Miss Media’.
- Dr. Christoph Senft, Director, West Zone DAAD (German Academic Exchange Service), Pune.

25. Seminars/Conferences/Workshops organized & the source of funding:

Year	Title of Seminar/ Conference/ Workshop	Funding Agency	Amount Sanctioned (Rs.)
2014-2015	Conference on Miss Media: Depiction of Women in Literature and Media	Fergusson College and Modern College	10,000/-
2014-2015	Workshop on ‘Tradition: Theory and Practice’	GIP Programme DAAD, SPPU, Pune and Fergusson College, Pune	10,000/-

26. Student profile programme/course wise: Undergraduate:

Academic Year	Applications received	Selected	Enrolled		Pass percentage (%)
			M	F	
2010-2011	09	09	01	08	80
2011-2012	04	04	-	04	100
2012-2013	12	12	02	11	92
2013-2014	14	14	01	13	100
2014-2015	16	16	-	16	Results Awaited

27. Diversity of Students: Undergraduate

- Subject wise data on student diversity is not available. Data on overall diversity of students is given in Point No. 22 of Institutional Profile.

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil Services, Defence services, etc.?: Nil

29. Student progression:

Student progression	Against % enrolled
UG to PG	60%
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed	-
• Campus selection	-
• Other than campus recruitment	12%
Entrepreneurship/Self-employment	40% as German Language tutors and 25% as Translators

30. Details of Infrastructural facilities:

- Library (Departmental Library): Area - 200 sq.ft.; Number of Books - 800; Number of Journals Subscribed – 04

- Internet facilities for Staff & Students:
Computers with Internet – 01
 - Classrooms with ICT facility - 01
31. Number of students receiving financial assistance from college, university, government or other agencies:
- An average of 60% students get financial assistance from Central/ State Government agencies in the form of Scholarship/ Freeship
32. Details on student enrichment programmes (special lectures/ workshops/seminar) with external experts:

Year	Title/Type of Programme	Names of Resource Person(s) (External)
2010-2011	Lecture 'My view and perception about India'	Dr. Manfred Stassen, France
	Visit and Interaction with the students	Ms. Valentina Schuster, German Intern
	Lecture on 'Austrian German' (österreichisches Deutsch)	Ms. Ulrike Schatz, German Teacher from Austria
2011-2012	Workshop on Role of Films in German language teaching with special reference to the film 'Sonnenalle'	Dr. Swati Acharya SPPU, Pune
	Series of 16 Lectures and Workshops on German Culture and Literature	Mr. Johannes Hoffmann, Cologne, Germany
2012-2013	Lecture Series on History of German literature	Dr. Pramod Talgeri, India International Multiversity
	Lecture Series on Austrian Culture	Ms. Ellenora Wandorst, Austrian Intern
2013-2014	Lecture Series	Ms. Sandra Ilg, University of Munich, Germany
	Lecture Series	Ms. Leonie Huebner, University of Göttingen, Germany
	Workshop on Role of Film and Music in German language Teaching	Ms. Evelyn Regenfus, University of Munich
	Lecture on 'Elysee treaty – Marking 50 years of Franco-German friendship'	Dr. Neeti Badwe, Former Head of the Department of German, SPPU, Pune
	Workshop on Philosophy and literature	Dr. Phillip Thomas, University of Tübingen, Germany
	Guest Lecture on studying in Germany	Ms. Stefanni Helmschrott, University of Augsburg
2014-2015	Elysee Exhibition: An exhibition marking 50 years of Elysee treaty between Germany and France (jointly organized by German Embassy, French Embassy and Department of German and French, Fergusson College)	Inauguration at the hands of: Dr. Michael Siebert, Consul General of Federal Republic of Germany Dr. Michael Ott, Deputy Consul General of Federal Republic of Germany Dr. Wolfgang Franz, Director, Max Mueller Bhavan, Pune
	As a part of centenary celebrations of German language teaching in Pune and in India, a rally of around 600 German language students and teachers was organized	Rally was flagged at the hands of Former Mayor of Pune Mrs. Chanchala Kodre
2014-2015	Workshop for German Language teachers	Smt. Rajashree Hoerig, Max Mueller Bhavan, Pune
	Lecture Series on 'Wolfgang Borchert and his short stories'	Ms. Renate Hofmann, Heidelberg, Germany

Workshop on ‘German Pop Music’ and Guest lecture on youth Culture in Germany	Mr. Johannes Hofmann, Cologne, Germany
Lecture series on Post war history of Germany (after 1945)	Ms. Viktoria Winkelhöfer, University of Vienna, Austria
Guest lecture on ‘Role of German Language in profession’	Shri. Prafulla Gade, Volkswagen, Pune
Guest lecture on ‘Opportunities of Higher Education in Germany’	Dr. Christoph Senft, Director, DAAD, West Zone

33. Teaching methods adopted to improve student learning:
- Interactive Sessions
 - Film screening
 - Games, Quizzes
 - Role Play method
 - Usage of visual aids such as Pictures, Posters, flashcards etc.
 - Use of cassettes, CDs
 - Debates and discussion Sessions in order to improve speaking skills in German
34. Participation in Institutional Social Responsibility (ISR) and Extension activities: Nil
35. SWOC analysis of the department and Future plans:

<p>Strengths:</p> <ol style="list-style-type: none"> 1. Oldest Department of German in India and hence has a rich heritage 2. Centenary of German language teaching at Fergusson College was celebrated in 2014 3. Limited Number of Students (20-30) enables strong personal rapport 4. Collaborations with other Institutions like Max Mueller Bhavan and DAAD not only for academic development but also for financial assistance
<p>Weaknesses:</p> <ol style="list-style-type: none"> 1. Unavailability of a German native speaker as a staff member on a regular basis
<p>Opportunities:</p> <ol style="list-style-type: none"> 1. International collaboration e.g. Collaboration with the Department of German, University of Göttingen 2. International Exposure to students through International Essay competition organized by DAAD (German academic Exchange Service) 3. Financial Assistance is provided for attending seminars / conferences at German Universities by funding agencies like DAAD, Goethe Institute etc. 4. Career oriented courses such as courses in Translations could be designed which would be beneficial for students as far as career avenues are concerned
<p>Challenges:</p> <ol style="list-style-type: none"> 1. Increasing Student Strength 2. Revising the curricula which would meet the needs of corporate world such as translation skills, business German etc

Future Plans

- Interdisciplinary course along with Department of Philosophy and Psychology on ‘Philosophy and Literature of Existentialism’
- Course in Translation and Business German Collaboration with University of Augsburg, Germany.



1. Name of the Department: **Hindi**
2. Year of Establishment: 1952
3. Names of Programmes/Courses offered: B.A.
4. Names of Interdisciplinary Courses and department/units involved:
Nil
5. Annual/Semester/Choice based Credit system (programme wise):
B.A. – Annual, S.Y. B.Sc. - Semester
6. Participation of the department in the courses offered by other departments: Nil
7. Courses in collaboration with other Universities, Industries, Foreign Institutions, etc.: Nil
8. Details of courses/programmes discontinued (if any) with reasons: Nil
9. Number of Teaching Posts:

Undergraduate/Post Graduate	Sanctioned	Filled
Assistant Professors	02	01
Assistant Professors (Temporary)	-	01

10. Faculty Profile:

Name	Qualification	Designation	Specialization	Experience (Years)
Shri. Santosh Dhotre	M.A., B.Ed.	Assistant Professor	Literature	07
Dr. Rajani Ranpise (Retired on 30 th November 2014)	M.A., B.Ed., M.Ed., M.Phil., Ph.D.	Head and Associate Professor	Lipi Vigyan	24
Shri. Jayram Gadekar	M.A., M.Phil.	Assistant Professor	Literature	01

11. List of Senior Visiting Faculty: Nil
12. Percentage of Lectures delivered and practical classes handled (programme wise) by temporary faculty:

Year	Total Workload of Department	Total Workload of Permanent Faculty	Lectures delivered by Temporary Faculty	
			Number	Percentage (%)
2010-2011	32	32	-	-
2011-2012	32	32	-	-
2012-2013	32	32	-	-
2013-2014	32	32	-	-
2014-2015	32	20	12	37.5%

13. Student-Teacher Ratio (programme wise):

Level	Class	Number of Teachers	Student-Teacher Ratio
Undergraduate	B.A. Students Strength (F.Y. + S.Y. + T.Y.) / 6	2	13/2 = 7:1
	(73 + 3 + 3) = 79 79/6 = 13		

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: Nil

15. Qualification of teaching faculty with D.Sc./ D.Litt./ Ph.D./ M.Phil./ PG: PG – 01; M.Phil. – 01

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil

17. Departmental Projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received:

Title of Project	Funding from DST-FIST/ UGC XI Plan, XII Plan, DBT, Any Other	Grant received (Rs.)
Madhyakalin Sahitya evam kaviyon ka parichay (Poster & Photo)	UGC-CPE	10,000/-
Aadhunik Hindi Kaviyon ki chuni hui kavitaayen	UGC-CPE	6,000/-

18. Research Centre/facility recognized by the University: Nil

19. Publications:

Name of Faculty	Papers	Books		Total Publications
	Proceedings	National	Book Articles	
Shri. Santosh Dhotre	2	1	-	3
Shri. Jayram Gadekar	1	-	2	3
Total	3	1	2	6

20. Areas of Consultancy and Income generated: Nil

21. Faculty as members in a) National Committees b) International Committees c) Editorial Board: Nil

22. Student projects:

- Percentage of students who have done in-house projects including inter departmental/programme: Nil
- Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/other agencies: Nil

23. Awards/Recognitions received by faculty and students:

Title of Award/Recognition	Name of Faculty/Student	Year
Judge, Maharashtra Rashtrabhasha Sabha	Dr. Rajani Ranpise	2013-2014

24. List of eminent academicians and scientists/visitors to the department:

- Dr. Ramji Tiwari - Former Head and Professor, Department of Hindi, Mumbai University - Tulsi Jayanti Programme
- Prof. S. M. Shaha – Karyadhyaksha, Maharashtra Rashtrabhasha, Pune - Hindi Divas Programme
- Dr. Thakurdas - Former Principal, Devgiri College, Aurangabad - Hindi Sahitya aur Samaj
- Dr. Sadanand Bhosale - Associate Professor, Department of Hindi, SPPU, Pune - Hindi Bhasha Ka Vikas
- Dr. Shashikala Rai - Assistant Professor, Department of Hindi, SPPU, Pune – Hindi Sahitya Ki Upadayata
- Dr. Rajendra Shrivastav – Zonal Manager, Bank of Maharashtra - Sankalp Kavi Sammelan

25. Seminars/ Conferences/ Workshops organized & the source of funding:

Year	Title of Seminar/ Conference/Workshop	Funding Agency	Amount Sanctioned (Rs.)
2013-2014	Lecture Series	DES, Fergusson College	6,000/-

26. Student profile programme/course wise: Undergraduate:

Academic Year	Applications received	Selected	Enrolled		Pass percentage (%)
			M	F	
2010-2011	11	11	04	07	73%
2011-2012	05	05	02	03	100%
2012-2013	13	13	04	09	69%
2013-2014	03	03	00	03	67%
2014-2015	03	03	00	03	Results Awaited

27. Diversity of Students: Undergraduate:

- Subject wise data on student diversity is not available. Data on overall diversity of students is given in Point No. 22 of Institutional Profile.

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.?: Nil

29. Student progression:

Student progression	Against % enrolled
UG to PG	70
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed	-
• Campus selection	
• Other than campus recruitment	
Entrepreneurship/Self-employment	-

30. Details of Infrastructural facilities: a) Library (Departmental Library)

- Library (Departmental Library): Number of Books – 1700
- Internet facilities for Staff & Students:
Computers with Internet - 01
- Classrooms/Laboratories with ICT facility - Common for all languages - Language Lab
- Laboratories: Nil

31. Number of students receiving financial assistance from college, university, government or other agencies:

- An average of 60% students get financial assistance from Central/ State Government agencies in the form of Scholarship/ Freeship

32. Details on student enrichment programmes (special lectures/ workshops/seminar) with external experts:

Year	Title/Type of Programme	Names of Resource Person(s) (External)
2010-2011	Hindi Divas Program	Prof. S. M. Shaha
2011-2012	Aakashvani aur Hindi Bhasha	Dr. Sunil Devdhar
2012-2013	Hindi Sahitya Ki Upadayata	Dr. Shashikala Rai
2013-2014	Hindi Bhasha Ka Vikas	Dr. Sadanand Bhosale

33. Teaching methods adopted to improve student learning:

- Use of Language Lab
- Use of Power Point Presentations
- Audio & Video CD etc.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

- Participation in NSS Programmes
- To help the Handicapped, Poor and Blind Students of the College.

35. SWOC analysis of the department and Future plans:

Strengths: 1. Lectures by Renowned Personalities
Weaknesses: 1. Inadequate infrastructure 2. No Postgraduate Department
Opportunities: 1. Job opportunities in more than 14 areas 2. Demand for Functional Hindi modules
Challenges: 1. Student strength

Future Plans

- To Start a Translation Diploma in Hindi



1. Name of the Department: **History**
2. Year of Establishment: 1885
3. Names of Programmes/Courses offered: B. A.
4. Names of Interdisciplinary Courses and department/units involved:
Nil
5. Annual/Semester/Choice based Credit system (programme wise):
B.A. – Annual
6. Participation of the department in the courses offered by other departments: Nil
7. Courses in collaboration with other Universities, Industries, Foreign Institutions, etc.: Nil
8. Details of courses/programmes discontinued (if any) with reasons: Nil
9. Number of Teaching Posts:

Undergraduate/Post Graduate	Sanctioned	Filled
Assistant Professors	02	02

10. Faculty Profile:

Name	Qualification	Designation	Specialization	Experience (Years)
Dr. Madhuri Mandlik	M.A., M.Phil., Ph.D.	Assistant Professor	Modern Indian History	15
Shri. Santosh Ghuge	M.A.	Assistant Professor	History	07

11. List of Senior Visiting Faculty:

Name	Institute/Organization
Dr. Rekha Ranade	Former Head and Professor of History, SPPU, Pune
Dr. Deepak Gaikwad	Professor Department of History, SPPU, Pune
Dr. Sumitra Kulkarni	Head and Professor, Department of History, SPPU, Pune

12. Percentage of Lectures delivered and practical classes handled (programme wise) by temporary faculty: Undergraduate:

Year	Total Workload of Department	Total Workload of Permanent Faculty
2010-2011	40	40
2011-2012	40	40
2012-2013	40	40
2013-2014	40	40
2014-2015	40	40

13. Student-Teacher Ratio (programme wise):

Level	Class	Number of Teachers	Student-Teacher Ratio
	B.A. Students Strength (F.Y. + S.Y. + T.Y.) / 6		
Undergraduate	(325 + 36 + 36) = 397 397/6 = 66	2	66/2 = 33:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: Nil
15. Qualification of teaching faculty with D.Sc./D.Litt./Ph.D./ M.Phil./PG: PG - 01; Ph.D. - 01
16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: 01

Duration	Name of Faculty	Title of Project	Name of Funding Agency	Grant received (Rs.)	Status (Minor/Major)
2013-2015	Dr. Madhuri Mandlik	Scheduled Tribes of Khandesh and adjacent Gujarat Border with special Reference to Bhils and Kolis	UGC	80,000/-	Minor

17. Departmental Projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received: UGC-CPE - 01
18. Research Centre/facility recognized by the University: Nil
19. Publications:

Name of Faculty	Books	Total Publications
	Book Articles	
Dr. Madhuri Mandlik	1	1
Shri. Santosh M.Ghugre	2	2
Total	3	3

20. Areas of Consultancy and Income generated: Nil

21. Faculty as members in a) National Committees b) International Committees c) Editorial Boards: Nil
22. Student projects:
- a) Percentage of students who have done in-house projects including inter departmental/programme: UGC-CPE - 01
- b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/ Industry/other agencies: Nil
23. Awards/Recognitions received by faculty and students: Nil
24. List of eminent academicians and scientists/visitors to the department:
- Dr. Rekha Ranade, Former Head and Professor of History, SPPU, Pune
 - Shri. Girish Mandke, Deccan College, Pune - Importance of History and Archaeology
 - Shri. Srinand Bapat, Bhandarkar Research Institute, Pune
 - Dr. Sumitra Kulkarni, Head, Department of History, SPPU, Pune - Art and Architecture during Maratha period
25. Seminars/Conferences/Workshops organized & the source of funding: Nil
26. Student profile programme/course wise: Undergraduate

Academic Year	Applications received	Selected	Enrolled		Pass percentage (%)
			M	F	
2010-2011	24	24	17	07	95
2011-2012	30	30	22	7	96
2012-2013	27	27	23	7	95
2013-2014	25	25	19	06	97
2014-2015	36	36	23	13	Results awaited

27. Diversity of Students: Undergraduate
- Subject wise data on student diversity is not available. Data on overall diversity of students is given in Point No. 22 of Institutional Profile.
28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.?: NET - 01, ACIO/(Intelligence Bureau) - 01

29. Student progression:

Student progression	Against %
UG to PG	60%
PG to M.Phil.	-
PG to Ph.D.	5%
Ph.D. to Post-Doctoral	-
Employed	-
• Campus selection	
• Other than campus recruitment	
Entrepreneurship/Self-employment	-

30. Details of Infrastructural facilities:

- Library (Departmental Library): Number of Books – 200
- Internet facilities for Staff & Students:
Computers with Internet - 01
- Classrooms/Laboratories with ICT facility – Common Class Room

31. Number of students receiving financial assistance from college, university, government or other agencies:

- An average of 60% students get financial assistance from Central/ State Government agencies in the form of Scholarship/Freeship

32. Details on student enrichment programmes (special lectures/ workshops/seminar) with external experts:

Year	Title/Type of Programme	Names of Resource Person(s) (External)
2010-2011	Science and Technology in Ancient India	Dr. Rekha Ranade, Former Head and Professor, SPPU, Pune
	Foreign Policy of America	Dr. Deepak Gaikwad, Head and Professor, SPPU, Pune
	Social Life during Maratha Period	Dr. Sumitra Kulkarni, Professor, SPPU, Pune; Shri Vijay Kunjeer, TMV, Pune;
2011-2012	Importance of History and Archaeology	Girish Mandke, Deccan College, Pune
	History Writing	Dr. Shradhha Kumbhojkar, Tilak Maharashtra Vidyapeeth, Pune
	Battle of Panipat	Prof. Vijay Kunjeer, Tilak Maharashtra Vidyapeeth, Pune
2012-2013	Harrapan Civilization and opportunities in Archaeology	Shri. Akash Srinivas, Scholar, Archaeology, Deccan College, Pune
2013-2014	Art and Architecture during Maratha Period	Dr. Sumitra Kulkarni, Professor and Head, SPPU, Pune
2014-2015	Kargil War	Brigadier. Shri. Hemant Mahajan, Pune
	Forts in Maharashtra	Chhatapati Sambhaji Raje, Kolhapur

33. Teaching methods adopted to improve student learning:
- ICT based teaching/explanation
 - Use of Internet for studying historical sites
 - Study tour
34. Participation in Institutional Social Responsibility (ISR) and Extension activities:
- Conducted special lectures for visually challenged students
 - Conducted special lecture for foreign students
 - Guide to visitors about historical background of Fergusson College.
35. SWOC analysis of the department and Future plans:

Strengths: 1. Diverse students – National as well as International
Weaknesses: 1. Inadequate space
Opportunities: 1. Courses in Archaeology and Museology
Challenges: 1. To provide courses suitable for international students

Future Plans

- To establish department as Postgraduate Research Centre
- Design and Develop a Certificate Course in Modi Script and Persian Script
- Organize Indian History Congress.



1. Name of the Department: **Marathi**
2. Year of Establishment: Undergraduate – 1938
Postgraduate - 1978
3. Names of Programmes/Courses offered: B.A. and M.A.
4. Names of Interdisciplinary Courses and department/units involved:
Nil
5. Annual/Semester/Choice based Credit system (programme wise):
B.A. – Annual, M.A. - CBCS
6. Participation of the department in the courses offered by other departments: Nil
7. Courses in collaboration with other Universities, Industries, Foreign Institutions, etc.: Nil
8. Details of courses/programmes discontinued (if any) with reasons: Nil

9. Number of Teaching Posts:

Undergraduate/Post Graduate	Sanctioned	Filled
Associate Professors	06	06
Assistant Professors	01	01
Assistant Professors (Temporary)	-	01

10. Faculty Profile:

Name	Qualification	Designation	Specialization	Experience (Years)
Dr. Siddharth Aagale	M.A., M.Phil., Ph.D.	Head and Associate Professor	Sammeeksha	25
Dr. Nanda Kamble	M.A., Ph.D.	Associate Professor	Dalit Sahitya, LokSahitya	22
Dr. Rekha Deshpande	M.A., Ph.D.	Associate Professor	Maraathee Vankmayacha Itihas	28
Smt. Rupali Shinde	M.A., M.Phil.	Associate Professor	Sameeksha	17
Dr. Sanjaykumar Koli	M.A., Ph.D.	Associate Professor	Sanskriti Abhyas	16
Dr. Anand Katikar	M.A., Ph.D.	Assistant Professor	BhashaVidnyaan	13
Shri. Nagnath Balte	M.A., M.Phil.	Assistant Professor	Drama	02
Dr. Anil Sapkal *	M.A., Ph.D.	Associate Professor	Patkatha Lekhan	17

* Joined as Professor at Department of Marathi, Mumbai University, Mumbai (05/08/2014)

11. List of Senior Visiting Faculty: Nil

12. Percentage of Lectures delivered and practical classes handled (programme wise) by temporary faculty:

Year	Total Workload of Department	Total Workload of Permanent Faculty	Lectures delivered by Temporary Faculty	
			Number	Percentage (%)
2010-2011	140	140	-	-
2011-2012	140	140	-	-
2012-2013	140	140	-	-
2013-2014	140	140	-	-
2014-2015	140	120	20	14

13. Student-Teacher Ratio (programme wise):

Level	Class	Number of Teachers	Student-Teacher Ratio
Undergraduate	B.A. Students Strength (F.Y. + S.Y. + T.Y.) / 6	2	38/2 = 19:1
	(201 + 12 + 12) = 225 225/6 = 38		
Postgraduate	M.A. Students Strength (Part-I + Part-II)	5	112/5 = 22:1
	(58 + 54) = 112		

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: Nil
15. Qualification of teaching faculty with D.Sc./D.Litt./Ph.D./M.Phil./PG: M.Phil. – 02; Ph.D. – 06
16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil
17. Departmental Projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received: Nil
18. Research Centre/facility recognized by the University: Nil
19. Publications:

Name of Faculty	Papers			Books		Total Publications	Impact Factor
	International	National	Proceedings	National	Book Articles		
Dr. Siddharth Agale	1	4	-	1	-	6	2.11
Dr. Nanda Kamble	-	-	-	-	2	2	-
Dr. Rekha Deshpande	1	1	-	-	1	3	-
Smt. Rupali Shinde	-	5	-	-	1	6	-
Dr. Sanjay Koli	-	2	-	-	2	4	-
Dr. Anand Katikar	-	6	1	-	2	9	-

Shri. Nagnath Balte	-	-	1	-	-	1	-
Dr. Anil Sapkal	13	-	-	9	2	24	-
Total	15	18	2	10	10	55	2.11

20. Areas of Consultancy and Income generated: Nil
21. Faculty as members in a) National Committees b) International Committees c) Editorial Boards:

Name of Faculty Members	National Committee/International Committee/Editorial Board	Any other Committee/Board
Dr. Siddharth Aagle	-	BOS Sub-Committee
Dr. Anand Katikar	'Bhasha ani Jeevan' - Magazine from Pune	-

22. Student projects:
- Percentage of students who have done in-house projects including inter departmental/programme: UGC-CPE - 04, PG - 8%
 - Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/ Industry/other agencies: Nil
23. Awards/Recognitions received by faculty and students:

Title of Award/Recognition	Name of Faculty/Student	Year
Captain - Asian Games Indian Girls' Kabaddi team	Deepika Joseph	2011- 2012

24. List of eminent academicians and scientists/visitors to the department:
- Dr. Milind Joshi, Professor Bharati Vidyapeeth - Lecture on Literary Creativity
 - Shri. Vasudev Mulate, Eminent Marathi Critic - Lecture on Gramin Sahitya
 - Shri. Narayan Sumant, Eminent Poet - Lecture on Marathi Kavita
 - Dr. Bidan Aaba, Professor Mahatma Gandhi Institute, Mauritius - Lecture on Comparative Marathi Literature: Mauritius and Maharashtra
 - Dr. Anil Avchat, Eminent Writer - Mazi Sahitya Nirmiti Prakriya
 - Shri. Arun Kakatkar - Lecture on BhasBodh (Dasbodh)
25. Seminars/Conferences/Workshops organized & the source of funding:

Year	Title of Seminar/Conference/Workshop	Funding Agency	Amount Sanctioned (Rs.)
2011-2012	Sahitya Academy Western Regional Women's Workshop	Sahitya Academy	25,000/-

26. Student profile programme/course wise: Undergraduate

Academic Year	Applications received	Selected	Enrolled		Pass percentage (%)
			M	F	
2010-2011	15	15	4	11	76
2011-2012	17	17	7	10	82
2012-2013	15	15	6	9	94
2013-2014	17	17	12	5	91
2014-2015	13	12	7	6	Results Awaited

Postgraduate

Academic Year	Applications received	Selected	Enrolled		Pass percentage (%)
			M	F	
2010-2011	78	64	41	23	88
2011-2012	77	62	40	22	87
2012-2013	74	60	42	18	89
2013-2014	65	60	40	16	88
2014-2015	65	58	38	20	Results Awaited

27. Diversity of Students: Undergraduate:

- Subject wise data on student diversity is not available. Data on overall diversity of students is given in Point No. 22 of Institutional Profile.

Postgraduate:

Academic Year	% of Students from Same State	% of Students from Other States	% of students from abroad
2010-2011	100	-	-
2011-2012	100	-	-
2012-2013	100	-	-
2013-2014	100	-	-
2014-2015	100	-	-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.?: NET - 03

29. Student progression:

Student progression	Against % enrolled
UG to PG	55%
PG to M.Phil.	3.5%
PG to Ph.D.	2%
Ph.D. to Post-Doctoral	-
Employed	-
• Campus selection	
• Other than campus recruitment	
Entrepreneurship/Self-employment	-

30. Details of Infrastructural facilities:

- Library (Departmental Library): Area - 100 sq.ft.;
Number of Books - 800

- Internet facilities for Staff & Students:
Computers with Internet - 01
- Classrooms/Laboratories with ICT facility - 01 (Classroom)

31. Number of students receiving financial assistance from college, university, government or other agencies:

- An average of 60% students get financial assistance from Central/ State Government agencies in the form of Scholarship/Freeship

32. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts:

Year	Title/Type of Programme	Names of Resource Person(s) (External)
2010-2011	BhashaVijnan & Marathi Bhasha Itihas	Dr. Vidyagouri Tilak, Professor, SPPU, Pune
	Marathi Sahityacha Itihas	Dr. D. D. Punde, Ex. Professor, Modern College, Pune
	Dalit Sahitya	Dr. Manohar Jadhav, Professor, SPPU, Pune
2011-2012	Dalit Sahitya	Dr. Krishna Kiravale, Professor, Shivaji University, Kolhapur
	Madhyayugeen Marathi Sahitya	Dr. Avinash Avalgaonkar, Professor, SPPU, Pune
	Marathi Vyakaran	Dr. Kalyan Kale, Ex. Professor, SPPU, Pune
	First Paper : SET & NET	Dr. Prabhakar Desai, Professor, SPPU, Pune
	Patrakarita & Marathi Bhasha kaushalye	Shri. Mahaveer Jondhale, Journalist
	Samkalin Sahitya Chalavali	Dr. Vidyagouri Tilak, Professor, SPPU, Pune
	Patkatha	Shri. Raj Kazi, Eminent Film Journalist
	Marathi Sahityacha Itihas	Dr. Avinash Avalgaonkar, Professor, SPPU, Pune
	Jahirat	Dr. Sanjeev Ghodekar, Advertise expert
	Audio-Visual Media	Shri. Prashant Sonawane, Media Person
2012-2013	Bhasha & Sahitya – Paraspar Sambandh	Dr. Snehal Taware, Professor, Modern College, Pune
	Prasar Madhyamatil Bhasha	Shri. Mahaveer Jondhale, Journalist
	Dalit Kavita	Shri. Prakash Ghodke, Marathi Poet
2013-2014	LokSahityateel Lokgeete	Smt. Suman Prabhmirashi, Folklore expert
	Bhashantar: Anubhav	Smt. Uma Kulkarni, Translator
	Akashvaneesathi Lekhan	Smt. Gauri Lagu, Radio expert
	Vaidarbheey Sahitya -Sankruti	Shri. Pramod Munghate, Professor, University of Nagpur

	Grameen Sahitya	Dr. Vasudeo Mulate, Critic, Marathi Literature, Aurangabad
	Comparative Literature	Dr. Anand Patil, Critic, Comparative Literature, Pune
2014-2015	Lecture Series on Marathi Grammar: i. Kavya Vachan ii. Keertan iii. Discussion with writer iv. Marathi in Mauritius v. Bhasbodha vi. My Story Writing	Dr. Kalyan Kale, Linguist, Former Head, SPPU, Pune Shri. Narayan Sumant, Poet, Sholapur Shri. Charudatta Aphale, Keertankar, Pune Shri. Anil Avchat, Writer, Pune Dr. Bidan Aba, Mahatma Gandhi Institute, Mauritius Shri. Arun Kakatkar, Writer and Philosopher, Pune Dr. Rajani Sheth, Novelist

33. Teaching methods adopted to improve student learning:

- ICT based teaching/explanation
- Discussion
- Film or Drama Appreciation

34. Participation in Institutional Social Responsibility (ISR) and Extension activities: Nil

35. SWOC analysis of the department and Future plans:

Strengths: 1. Lectures by renowned personalities 2. Various Options are available for PG programme
Weaknesses: 1. Insufficient Space
Opportunities: 1. Promotion of Marathi language and literature
Challenges: 1. Student strength

Future Plans

- Recognition as research centre
- Organizing Seminar in collaboration with Mahatma Gandhi Institute, Mauritius.



1. Name of the Department: **Philosophy**
2. Year of Establishment: 1885
3. Names of Programmes/Courses offered:
B.A. Philosophy (Special)
B.A. Logic (General)
4. Names of Interdisciplinary Courses and department/units involved: Nil
5. Annual/Semester/Choice based Credit system (programme wise): B.A. – Annual
6. Participation of the department in the courses offered by other departments:
 - Dr. Deepti Gangavane contributed lectures on Study of Literary Epochs and German Philosophers (Immanuel Kant, Martin Heidegger and Friedrich Nietzsche) at German Department.
7. Courses in collaboration with other Universities, Industries, Foreign Institutions, etc.: Nil
8. Details of courses/programmes discontinued (if any) with reasons: Nil
9. Number of Teaching Posts:

Undergraduate	Sanctioned	Filled
Assistant Professors	02	02
Assistant Professors (FIP)	-	01

10. Faculty profile:

Name	Qualification	Designation	Specialization	Experience (Years)
Dr. Deepti Gangavane	M.A., Ph.D.	Assistant Professor	Western Philosophy, Epistemology	12
Smt. Radhika Jadhav	M.A.	Assistant Professor	Indian Philosophy	04
Ms. Avani Sabde (FIP)	M.A.	Assistant Professor	Logic	1.5

11. List of Senior Visiting Faculty: Nil
12. Percentage of Lectures delivered and practical classes handled (programme wise) by temporary faculty:

Year	Total Work load of department	Total workload of Permanent faculty	Lectures delivered by temporary faculty	
			Number	Percentage (%)
2010-2011	40	40	-	-
2011-2012	40	40	-	-
2012-2013	40	40	-	-
2013-2014	40	20	20	50
2014-2015	40	20	20	50

13. Student-Teacher Ratio (programme wise):

Level	Class	Number of Teachers	Student-Teacher Ratio
	B.A. Students Strength (F.Y. + S.Y. + T.Y.) / 6		
Undergraduate	(97 + 12 + 12) = 121 121/6 = 20	2	20/2 = 10:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: Nil

15. Qualification of teaching faculty with D.Sc./D.Litt./Ph.D./M.Phil./PG: PG – 02; Ph.D. – 01

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil

17. Departmental Projects funded by DST-FIST; UGC, DBT, ICSSR, etc., and total grants received:

Title of Project	Funding from DST-FIST/UGC XI Plan, XII Plan, DBT, Any Other	Grant received (Rs.)
Death Penalty	UGC-CPE (2012 - 2013)	3,500/-
Calculating Logical Inconsistencies – A Questionnaire		
Reminiscences: Sita and Draupadi Unplugged	UGC-CPE (2013 – 2014)	7,500/-
A Critique of Religion and God		
Friedrich Wilhelm Nietzsche Und Seine Poeterei		
Poster Making on Branches of Philosophy		
Relation between Film and Philosophy with Special Reference to French Cinema	UGC-CPE (2014 – 2015)	7,000/-
Women Philosophers		
Role of Education in Ancient India		
Die Verwandlung: A Symphony of Philosophy and German literature		
Total	10 Projects	18,000/-

18. Research Centre/facility recognized by the University: Nil

19. Publications:

Name of Faculty	Papers		Books	Total Publications
	National	Proceedings	Book Articles	
Dr. Deepti Gangavane	1	1	3	5
Smt. Radhika Jadhav	-	1	-	1
Total	1	2	3	6

20. Areas of Consultancy and Income generated: Nil

21. Faculty as members in a) National Committees b) International Committees c) Editorial Board:

Name of Faculty	National Committee/International Committee/Editorial Board	Any other Committee/Board
Dr. Deepti Gangavane	Editorial Board - Paramarsha (Marathi)	i. Member of Board of Studies (Philosophy), K. J. Somaiya College of Arts, Mumbai ii. Member Board of Studies (Philosophy), University of Mumbai iii. Invited member, Board of Studies (Philosophy), SPPU, Pune iv. Member, Ethics Committee, Deccan Education Society's Jindal College of Physiotherapy, Pune.

22. Student projects:

- a) Percentage of students who have done in-house projects including inter departmental /programme: In-House Projects:

Academic Year	Number of In-House Projects (UGC-CPE, UGC-BSR and PG Projects)	% of students involved against number of students enrolled for class
2010-2011	-	-
2011-2012	-	-
2012-2013	02 (UGC-CPE)	20%
2013-2014	04 (UGC-CPE)	70%
2014-2015	04 (UGC-CPE)	35%

- b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies: Nil

23. Awards/Recognitions received by faculty and students:

Title of Award/Recognition	Name of Faculty/Student	Year
Student Seminar Prize at S.P. College, Pune	Rohini Shukla	2011-2012
Student Seminar Prize at S.P. College, Pune	Mrinmayi Kulkarni	2011-2012
Student Seminar Prize at S.P. College, Pune	Kohinoor Darda	2011-2012
Student Seminar Prize at S.P. College, Pune	Anamika Bhattacharjee	2011-2012
Student Seminar Prize at S.P. College, Pune	Manasi Chakroborty	2011-2012
Student Seminar Prize at S.P. College, Pune	Mukta Asnikar	2012-2013
Student Seminar Prize at S.P. College, Pune	Mrinmayi Kulkarni	2012-2013
Student Seminar Prize at S.P. College, Pune	Akshay Peshave	2012-2013
Student Seminar Prize at S.P. College, Pune	Kohinoor Darda	2013-2014
Student Seminar Prize at S.P. College, Pune	Harshavardhan Sumant	2013-2014
Student Seminar Prize at S.P. College, Pune	Neerja Pathak	2013-2014
Student Seminar Prize at S.P. College, Pune	Megha Sanyal	2013-2014
Endowment Prize of Fergusson College, Pune	Ferzine Imtiaz	2013-2014
Essay competition at Mumbai University - First Prize	Devika Phansalkar	2014-2015
Essay competition at Mumbai University - First Prize	Harshavardhan Sumant	2014-2015
Essay competition at Mumbai University - Third Prize	Radha Joshi	2014-2015
Student Seminar Prize at S.P. College, Pune	Megha Sanyal	2014-2015
Student Seminar Prize at S.P. College, Pune	Tanmayee Gidh	2014-2015
Student Seminar Prize at S.P. College, Pune	Devika Phansalkar	2014-2015

24. List of eminent academicians and scientists/visitors to the department:

- Dr. Pradeep Gokhale, Department of Philosophy, SPPU, Pune
- Shri. Vishram Dhole, Department of Philosophy, SPPU, Pune
- Dr. Sadananda More, Department of Philosophy, SPPU, Pune
- Dr. Pravesh Jung Golay, Department of Humanities, I.I.T., Mumbai
- Dr. Shelly Sacks, Oxford Brooks University
- Dr. Sucheta Paranjape, Director, Associated Colleges Mid-West (Chicago-based)
- Dr. Mangala Chinchore, Department of Philosophy, SPPU, Pune

25. Seminars/Conferences/Workshops organized & the source of funding:
Nil

26. Student profile programme/course wise: Undergraduate:

Academic Year	Applications received	Selected	Enrolled		Pass percentage (%)
			M	F	
2010-2011	09	09	01	08	77
2011-2012	04	04	02	02	83
2012-2013	05	05	03	02	60
2013-2014	06	06	03	03	100
2014-2015	12	12	07	05	Results awaited

27. Diversity of Students: Undergraduate:

- Subject wise data on student diversity is not available. Data on overall diversity of students is given in Point No. 22 of Institutional Profile.

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.?: NET – 04

29. Student progression:

Student progression	Against % enrolled
UG to PG	42%
PG to M.Phil.	3%
PG to Ph.D.	1%
Ph.D. to Post-Doctoral	-
Employed	-
• Campus selection	
• Other than campus recruitment	
Entrepreneurship/Self-employment	Self-employment – 5%

30. Details of Infrastructural facilities:

- Library (Departmental Library): Number of Books – 186
- Internet facilities for Staff & Students:
Computers with Internet: 01
- Class rooms with ICT facility: The common classrooms provided by the college

31. Number of students receiving financial assistance from college, university, government or other agencies:

- An average of 60% students get financial assistance from Central/ State Government agencies in the form of Scholarship/Freeship

32. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts:

Year	Title/ Type of Programme	Names of Resource Person(s) (External)
2010-2011	A Guest Lecture on Yoga	Shri. Raya Dhavle, Iyengar Institute, Pune
	A Series of Three Lectures on Charvaka Philosophy	Dr. Pradeep Gokhale, Professor, Sarnath university
2011-2012	Lectures on Philosophy of J. Krishnamurti and Existentialism of Sartre	Shri. Vijay Karekar Former Head, Department of Philosophy, S. P. College, Pune
	Intensive Course on 'Bhagwad-Geeta: A Contemporary Critic'	Shri. Rajeev Sane, Freelance Thinker and Writer
	A Lecture on Media Ethics	Shri. Vishram Dhole, Faculty, Department of Communication Studies, SPPU, Pune
	A Lecture on Corporate Social Responsibility	Shri. V. V. Nathan, Visiting Faculty, Management Institutes
	One Day Workshop on 'Understanding Science-Interdisciplinary Perspectives'	Dr. Raja Dixit, Director, IDS, SPPU, Pune Shri. Vijay Kunjir, Freelancer Academician Dr. Sadananda More, Professor, Department of Philosophy, SPPU, Pune Dr. Surjeet Kaur Chahal, Professor, Department of Philosophy, SPPU, Pune
2012 - 2013	A Series of 4 Lectures on Amrutanubhava	Dr. Sadananda More, Professor, Department of Philosophy, SPPU, Pune
	An Intensive Course on 'New Media and Philosophy'	Shri. Vishram Dhole, Faculty, Department of Communication Studies, SPPU, Pune
2013 - 2014	A Lecture on 'The Philosophy of Dr. Radhakrishnan'	Mr. James Herdon, An American Research Scholar
	A Lecture on 'How to write a Research Article'	Dr. Mangala Chinchore (Retired), Professor, Department of Philosophy, SPPU, Pune
	A Lecture cum Workshop on 'Social Sculpture'	Dr. Shelly Sacks, Oxford Brooks University
2014 - 2015	A lecture on 'Socrates's Apology'	Dr. Pravesh Jung Golay, IIT Bombay
	An intensive course on 'Vedas: Historical background and significance'	Dr. Sucheta Paranjape (Retired), Tilak Maharashtra Visyapeeth

33. Teaching methods adopted to improve student learning:

- Interactive Sessions
- Students' Presentations of various topics.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities: Nil

35. SWOC Analysis of the department and Future plans:

Strengths: <ol style="list-style-type: none">1. A very good Teacher – Student rapport2. Additional inputs on subject related themes in the form of Intensive courses conducted every year.3. Guided access to the Departmental Library4. Guidance to students for research at the inter-collegiate level and beyond.5. A strong support of the Alumni in various academic programmes.
Weaknesses: <ol style="list-style-type: none">1. Student strength2. Being a small department in terms of the numbers of teachers and students, no large scale events can be organized.3. Lack of funds for the development of the Department.
Opportunities: <ol style="list-style-type: none">1. Preparing modules based on the syllabi of Philosophy in Competitive Examinations.2. Designing theme-based courses of interdisciplinary nature.3. Introducing theoretical perspectives regarding Research Methodology along with required logical techniques.
Challenges: <ol style="list-style-type: none">1. Increasing student enrolment2. Using ICT in teaching3. Bringing out the practical relevance of the subject by introducing empirical methods.

Future Plans

- Providing Guidance for Competitive Exams
- Introducing Interdisciplinary modules on various themes
- Providing guidance regarding the theoretical aspects of Research Methodology as well as logical techniques.



1. Name of the Department: **Political Science**
2. Year of Establishment: 1959
3. Names of Programmes/Courses offered: B.A.
4. Names of Interdisciplinary Courses and department/units involved:
Nil
5. Annual/Semester/Choice based Credit system (programme wise):
B.A. – Annual
6. Participation of the department in the courses offered by other departments: Nil
7. Courses in collaboration with other Universities, Industries, Foreign Institutions, etc.: Nil
8. Details of courses/programmes discontinued (if any) with reasons: Nil
9. Number of Teaching Posts:

Undergraduate/Post Graduate	Sanctioned	Filled
Associate Professors	01	01
Assistant Professors	02	02
Assistant Professors (Temporary)	-	01

10. Faculty Profile:

Name	Qualification	Designation	Specialization	Experience (Years)
Shri. Prakash Pawar	M.A.	Vice Principal, Head and Associate Professor	Political Process, Political Movements	21
Smt. Arati Khatu	M.A.	Assistant Professor	Political Theories, International Politics	17
Smt. Kalpana Kanke	M.A.	Assistant Professor	Political Movements, Women's Movements	09
Smt. Kalpana Dixit	M.A.	Assistant Professor	Political Theories, Thoughts, and Process	01

11. List of Senior Visiting Faculty: Nil

12. Percentage of Lectures delivered and practical classes handled (programme wise) by temporary faculty: Undergraduate

Year	Total Workload of Department	Total Workload of Permanent Faculty	Lectures delivered by Temporary Faculty	
			Number	Percentage (%)
2010-2011	60	56	04	7
2011-2012	60	56	04	7
2012-2013	60	56	04	7
2013-2014	60	56	04	7
2014-2015	60	56	04	7

13. Student-Teacher Ratio (programme wise):

Level	Class	Number of Teachers	Student-Teacher Ratio
	B.A. Students Strength (F.Y. + S.Y. + T.Y.) / 6		
Undergraduate	(385 + 85 + 85) = 555 555/6 = 93	4	93/4 = 23:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: Nil
15. Qualification of teaching faculty with D.Sc./ D.Litt./ Ph.D./ M.Phil./ PG: PG – 04
16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil
17. Departmental Projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received: Nil

Title of Project	Funding from DST – FIST/UGC XI Plan, XII Plan, DBT, Any Other	Grant Received (Rs.)
Judicial Review in India	UGC – CPE	-
Water Conflicts in Asia	UGC – CPE	-

18. Research Centre/facility recognized by the University: Nil

19. Publications:

Name of Faculty	Papers		Books	Total Publications
	International	National	Book Articles	
Shri. Prakash Pawar	-	-	1	1
Smt. Arati Khatu	-	1	1	2
Smt. Kalpana Kanke	1	1	-	2
Total	1	2	2	5

20. Areas of Consultancy and Income generated: Nil
21. Faculty as members in a) National Committees b) International Committees c) Editorial Boards:

Name of Faculty Members	National Committee/International Committee/Editorial Board	Any other Committee/Board
Shri. Prakash Pawar	i. Shikshak Sanghatak, monthly ii. Anvikshan, quarterly	-

22. Student projects:
- Percentage of students who have done in-house projects including inter departmental/programme: UGC- CPE (UG-02)
 - Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/other agencies: Nil
23. Awards/Recognitions received by faculty and students:

Title of Award/Recognition	Name of Faculty/Student	Year
Late Meenatai Patankar Sevabhavi Smruti Puraskar (Vidyadaan Sahayak Samiti, Thane)	Vaibhav Sonone	2015
First Prize in 'Rajendra Vora Memorial Mock Parliament Competition' organized by H. V. Desai College, Pune	A team of 35 students from F.Y.B.A.	2014

24. List of eminent academicians and scientists/visitors to the department:
- Shri. Anand Teltumbde, management professional, author, civil rights activist, political analyst and eminent Social Thinker
 - Prof. Subrata Mukherjee, Former Head of the Department of Political Science, Delhi University
 - Dr. Sanjay Chahande, Vice-Chancellor, SPPU, Pune
 - Prof. N. D. Patil, Eminent Political Leader of the Peasants & Workers Party
 - Prof. Dr. Vasudev Gade, Director, SPPU, Pune
 - Shri. Ulhas Pawar, Veteran Member of the Legislative Council, Maharashtra State
 - Shri. Nagesh Kesari, Director, V. S. Page Sansadiya Prashikshan Kendra, Mumbai
 - Shri. Anand Rayate, Secretary to the Speaker, Maharashtra State Assembly
 - Shri. S. S. Gaikwad, Finance Advisor, Government of Maharashtra
 - Shri. Prakash Jawadekar, Member of the Rajya Sabha
 - Shri. Girish Bapat, Chairperson of the Lok Seva Samiti, Maharashtra Legislature

- Dr. Anant Kalse, Chief Secretary, Legislature, State of Maharashtra
- Dr. Pradeep Apte, Eminent Economist and Assistant Professor, Department of Economics, Fergusson College, Pune
- Ms. Silvia Costantini, First Counsellor, Political Affairs, Delegation of the European Union in India, New Delhi
- Dr. Steven Cook, Hasib J. Sabbagh, Senior Fellow for Middle Eastern Studies, Council on Foreign Relations, U.S.A.
- Prof. Stephen Mackinnon, Fullbright Visiting Fellow, Arizona State University, U.S.A.
- Shri. Ajit Abhyankar, Trustee, The Academy of Political and Social Studies, Pune
- Ms. Silvia Costantini, First Counsellor, Political Affairs, Delegation of the European Union in India
- Dr. Jia Haitao, Jinan University, People's Republic of China
- Shri. Vivek Jadhavar, Project Officer & RTI Trainer, YASHADA, Pune
- Shri. Vijay Kumbhar, RTI Activist
- Prof. Stewart Gordon, Centre for South Asian Studies, University of Michigan, U.S.A.

25. Seminars/Conferences/Workshops organized & the source of funding:

Year	Title of Seminar/Conference/Workshop	Funding Agency	Amount Sanctioned (Rs.)
2011-2012	Working of the State Legislature	BCUD – SPPU	35,000/-
2014-2015	'Right to Information and Indian Democracy'	SPPU, Pune	5,000/-

26. Student profile programme/course wise: Undergraduate

Academic Year	Applications received	Selected	Enrolled		Pass percentage (%)
			M	F	
2010-2011	60	55	33	22	89
2011-2012	80	78	54	24	91
2012-2013	75	72	57	15	90
2013-2014	75	71	47	24	90
2014-2015	95	85	58	27	Results awaited

27. Diversity of Students: Undergraduate
- Subject wise data on student diversity is not available. Data on overall diversity of students is given in Point No. 22 of Institutional Profile.
28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.?: NET - 05, UPSC(IAS) – 02, SET – 02, MPSC - 02

29. Student progression:

Student progression	Against % enrolled
UG to PG	40
PG to M.Phil.	2
PG to Ph.D.	1
Ph.D. to Post-Doctoral	-
Employed	
• Campus selection	-
• Other than campus recruitment	-
Entrepreneurship/Self-employment	10

30. Details of Infrastructural facilities:

- Library (Departmental Library) UG: Area – 80 sq.ft.
Number of Books – 750
- Internet facilities for Staff & Students:
Computers with Internet - 01
- Classrooms/Laboratories with ICT facility - The common classroom provided by the college.

31. Number of students receiving financial assistance from college, university, government or other agencies:

- 10 Students have received financial assistance from the Earn and Learn Scheme, SPPU, Pune in the last 5 years
- An average of 60% students get financial assistance from Central/ State Government agencies in the form of Scholarship/Freeship

32. Details on student enrichment programmes (special lectures/ workshops/seminar) with external experts:

Year	Title/Type of Programme	Names of Resource Person(s) (External)
2011	'A Guest Lecture on 'Research Methodology'	Prof. Kedar Deshmukh
2011	A Workshop on 'Preparation for the UPSC Exams with Political Science as the Optional Subject'	Shri. Ashish Thakare, IAS
2012	A talk on Importance of the Study of Political Theory	Prof. Subrata Mukherjee, Former Head of the Department of Political Science, Delhi University
2012	The Key-Note Address for the Workshop on the Working of the State Legislature.	Prof. N. D. Patil, Eminent Political Leader of the Peasants & Workers Party
2012	The Budgetary Procedure as a part of the Workshop on the Working of the State Legislature	Shri. S. S. Gaikwad, Finance Advisor, Government of Maharashtra
2013	Talk on Relations between European Union and India	Ms. Silvia Costantini, First Counsellor, Political Affairs, Delegation of the European Union in India, New Delhi

2013	Two Workshops on 'Preparation for the UPSC Exams with Political Science as the Optional Subject'	Smt. Mrunmayi Joshi, IAS
2013	Workshop on 'Preparation for the UPSC Exams with Political Science as the Optional Subject'	Shri. Pratik Thube, IPS
2013	Talk on 'American Foreign Policy in the Middle East'	Dr. Steven Cook, Hasib J. Sabbagh Senior Fellow for Middle Eastern Studies, Council on Foreign Relations, U.S.A.
2013	Series of Lectures on: i. India - U.S.A. - China: A Significant Triangle in World Politics; ii. India- U.S.A. Relations: Historical Overview & Future Possibilities; iii. Why China is at a turning point and challenging its South & Southeast Asian neighbours?	Prof. Stephen Mackinnon, Fullbright Visiting Fellow, Arizona State University, U.S.A.
2013		
2014		
2014	A Workshop on 'Indian Economy: Illicit Money Flows & Tax Evasion'	Shri. Ajit Abhyankar, Trustee, The Academy of Political and Social Studies, Pune
2014	Talk on 'European Union- India Relations'	Ms Silvia Costantini, First Counsellor, Political Affairs, Delegation of the European Union in India
2014	Talk on 'Chinese Perceptions of India and India's China Policy'	Dr. Jia Haitao, Jinan University, People's Republic of China
2014	Workshop on 'Right to Information Act, 2005'	Shri. Vivek Jadhavar, Project Officer and RTI Trainer, YASHADA, Pune
2014	Workshop on the 'Right to Information Act, 2005 in Practice'	Shri. Vijay Kumbhar, RTI Activist
2015	A Guest Lecture on 'Salt, Robes & Blood: Honour & Loyalty in the Maratha Dominions & across the great Asian World'	Prof. Stewart Gordon, Centre for South Asian Studies, University of Michigan, U.S.A.
2011 - 2014	Certificate course in Women and Development	Faculty from Krantijyoti Savitribai Phule Women's Studies Centre, SPPU, Pune
2010-2011	The Poster-making competition on 'Liberty, Equality & Fraternity'	-
2015	Human Rights Day	-
2014	Film Screenings and Discussions: Samana, Goshta Kevdhi Dongaraevadhi, Ambedkar, Gandhi, Kakasparsha, Dr. Prakash Baba Amte	-
2011	Visit to the Governor of Maharashtra: The Department arranged a visit and interaction session with the Hon'ble Governor, Shree K. Shankarnarayanan at Rajbhavan, Pune	-
2012	Visit to Dr. Babasaheb Ambedkar Museum, Symbiosis College Campus	-
2012	Visit to Phule Wada, Pune on the occasion of the birth anniversary of Krantijyoti Savitribai Phule	-
2013	Visit to Dr. Babasaheb Ambedkar Memorial Museum, Symbiosis College Campus	-

2015	Visit to Tribal Research and Training Institute, Pune and Dr. Babasaheb Ambedkar Research and Training Institute, Pune (Department of Social Justice, Government of Maharashtra)	-
2015	Visit to the State Legislature, Maharashtra State, attended the sessions of the Assembly and the Council and visited library of the State Legislature.	-
2015	National Study Tour to introduce the students of Political Science to the Institutions of Indian Democracy and enable them to interact with some dignitaries. The team made visits to the institutions Parliament (Lok Sabha), Indian Parliament Museum, Supreme Court, Election Commission of India, Office of the Delegation of the European Union in India, Jawaharlal Nehru University and interacted with Hon'ble Vice President of India, Shri. Hamid Ansari, His Excellency, Mr. Joao Cravinho, Ambassador of the Delegation of the European Union in India, Prof. Milind Avhad School of Languages and Prof. Wankhede (School of Political Studies) at the Jawaharlal Nehru University	-
	The team also visited several places of historical significance in New Delhi: Rajghat, Red Fort, Qutub Minar, Teen Murti Bhavan, Indira Gandhi Memorial, Gandhi Smriti, India Gate, Rashtrapati Bhavan: Moghul Gardens, Akshar Dham	-

33. Teaching methods adopted to improve student learning:

- Interactive lectures
- Student presentations on various topics from the syllabi
- Workshops on studying skills, writing skills, etc conducted by Teachers as a part of enriching the classroom
- Discussions on extra readings
- Detailed Sub-topic wise Syllabus
- Detailed Question Bank

34. Participation in Institutional Social Responsibility (ISR) and Extension activities: Nil

35. SWOC analysis of the department and Future plans:

Strengths:	
1.	Consistent improvement in students' performance in the University Exams.
2.	Rise in the number of students going for higher studies abroad and in various National and Central Universities
3.	Success of the students of the Department in the UPSC and MPSC Examinations as well as NET and SET Examinations
4.	Regular conduct of the Undergraduate Women & Development Certificate Course by the Krantijyoti Savitribai Phule Women's Studies Centre, SPPU, Pune for Marathi Medium students of the college with a full batch every year, coordinated by the faculty of the Department
5.	Valuable resource in the form of text and reference books and original sources in the Departmental library
6.	Contribution of the Departmental faculty as Resource persons in Public policy and Training for the Government of Maharashtra
7.	Contribution of the Departmental faculty in other academic initiatives like implementation of Certificate Course in American Studies
Weaknesses:	
1.	Lack of adequate Infrastructure in the form of furniture
2.	Shortage of ICT Facility
Opportunities:	
1.	Multiple career opportunities for the students with their graduation in Political Science as their special subject, viz. Competitive exams, journalism and media, social work and teaching and research
2.	Consistent increase in demand for Political Science as a Special Subject
3.	Faculty Improvement Programmes for the departmental faculty to acquire research degrees
Challenges:	
1.	High student-teacher ratio: Very high number of students, especially at the General level makes it difficult to meet the diverse abilities and needs of the students
2.	Developing practical/application-based modules
3.	Taking initiatives for doing research

Future Plans

- Organize an Interdisciplinary National Conference jointly with the other Social Science Departments of the college, commemorating the 150th Birth Centenary of Shri. Gopal Krishna Gokhale
- Conduct regular visits to Parliament at New Delhi, State Legislature at Mumbai and local self governing institutions.



1. Name of the Department: **Psychology**
2. Year of Establishment: Undergraduate - 1979
Postgraduate - 2006
PGCCP - 2005
3. Names of programmes/Courses offered: B.A.
M.A. (Specialization in Industrial and Clinical Psychology)
PGCCP (DES PG Certificate Course in Counselling Psychology)
4. Names of Interdisciplinary Courses and department/units involved: Nil
5. Annual/Semester/Choice based Credit system (programme wise):
B.A. – Annual, M.A. – CBCS and DES PGCCP - Annual
6. Participation of the department in the courses offered by other departments: Nil
7. Courses in collaboration with other Universities, Industries, Foreign Institutions, etc.: Nil
8. Details of courses/programmes discontinued (if any) with reasons: Nil
9. Number of Teaching Posts:

Undergraduate/Postgraduate	Sanctioned	Filled
Associate Professors	01	01
Assistant Professors	05	05
Assistant Professors (Temporary)	-	03

10. Faculty profile:

Name	Qualification	Designation	Specialization	Experience (Years)	No. Of Ph.D.s guided
Dr. Shobhana Abhyankar	M.A., Ph.D.	Associate Professor	Industrial Psychology	35	07 (Ongoing) 01 (Submitted)
Dr. Anand Godse	M.A., Ph.D.	Assistant Professor	Industrial Psychology	06	-
Shri. Anil Sawarkar	M.A., M.Phil.	Assistant Professor	Clinical Psychology	06	-
Shri. Vijay Rangari	M.A.	Assistant Professor	Industrial Psychology	06	-
Dr. Megha Deuskar	M.A., Ph.D.	Assistant Professor	Clinical Psychology	06	-
Smt. Sheetal Ruikar	M.A.	Assistant Professor	Industrial Psychology	06	-
Ms. Angeline Thomas	M.A.	Assistant Professor	Clinical Psychology	02	-
Smt. Himani Swami	M.A.	Assistant Professor	Educational Psychology	06	-
Shri. Sagar Vidwans	M.A.	Assistant Professor	Clinical Psychology	03	-

11. List of Senior Visiting Faculty:

Name	Institute/Organization
Dr. Prabhu H. Lodhi	Professor and Former Head of the Department of Psychology, SPPU, Pune
Dr. Medha Kumthekar	Professor and Former Head of the Department of Psychology, SNDT, University, Pune Campus
Dr. Bhaskar R. Shejwal	Professor and Head of the Department of Psychology, SPPU, Pune
Dr. Matthijs Cornelissen	Director, Indian Psychology Institute, Pondicherry

12. Percentage of Lectures delivered and practical classes handled (programme wise) by temporary faculty: Undergraduate

Year	Total Workload of Department	Total Workload of Permanent Faculty	Lectures delivered by Temporary Faculty		Practical Classes handled by Temporary Faculty	
			Number	Percentage (%)	Number	Percentage (%)
2010-2011	104	104	-	-	-	-
2011-2012	104	81	16	15	07	7
2012-2013	104	81	16	15	07	7
2013-2014	104	81	16	15	07	7
2014-2015	104	81	16	15	07	7

Postgraduate

Year	Total Workload of Department	Total Workload of Permanent Faculty	Lectures delivered by Temporary Faculty		Practical Classes handled by Temporary Faculty	
			Number	Percentage (%)	Number	Percentage (%)
2010-2011	56	48	-	-	08	14
2011-2012	56	48	04	7	04	7
2012-2013	56	48	04	7	04	7
2013-2014	56	42	06	11	08	14
2014-2015	56	42	06	11	08	14

13. Student-Teacher Ratio (programme wise):

Level	Class	Number of Teachers	Student-Teacher Ratio
Undergraduate	B.A. Students Strength (F.Y. + S.Y. + T.Y.) / 6 (304 + 84 + 84) = 472 472/6 = 79		
	M.A. Students Strength (Part-I + Part-II) (27 + 24) = 51	4	51/4 = 13:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Number of Support Staff (Lab Assistant and Lab Attendant)		
	Sanctioned	Filled
Lab Attendants	01	01

15. M.Phil. – 01; Ph.D. – 03

16. Number of faculty with ongoing projects from a) National
b) International funding agencies and grants received: 02

Duration	Name of Faculty	Title of Project	Name of Funding Agency	Grant Received (Rs.)	Status (Minor/Major)
2013 - 2015	Shri. Anil Sawarkar	The efficacy of Rational Emotive Behavior Therapy as a group therapy in dealing with anger, anxiety and depression among young adults	BCUD-SPPU	1,02,000/-	Minor
2014 - 2016	Dr. Shobhana Abhyankar	Psy-Positive: Construction and Psychometric Assessment	BCUD-SPPU	90,000/-	Minor

17. Departmental Projects funded by DST-FIST; UGC, DBT, ICSSR, etc., and total grants received:

Title of Project	Funding from DST-FIST/ UGC XI Plan, XII Plan, DBT, Any Other	Grant Received (Rs.)
Industry Sponsored project on Microcity	Volkswagen, Germany	2,00,000/-
Androgyny and work-life imbalance among female managers	UGC-CPE (2012 – 2013): UG Projects	2,500/-
Emotional intelligence and job satisfaction among employees		2,500/-
Stress and Health Problems among Performing Artists and Non-Artists: A Comparative Study		2,500/-
Suicidal Ideation, Social Support Received and Satisfaction with Social Support Received in Homosexual Individuals and Heterosexual Individuals		5,000/-
A correlational study of existential fulfilment, depression and suicidal ideation among adults		2,500/-
Occupational Climate and Employee Motivation		UGC-CPE (2013 – 2014): UG Project
Organizational Climate and Work motivation	UGC-CPE (2014 – 2015): UG Project	4,000/-

Spirituality, burnout and health among police officials	UGC-CPE (2011 – 2012): PG Project	15,000/-
The study of efficacy of Yoga Nidra in enhancing maternal-fetal attachment and relaxation states among pregnant women	UGC-CPE (2013 – 2014): PG Project	5,000/-
Psycho-Social Correlates of Adherence to Treatment among Bariatric Surgery Patients	UGC-CPE (2013 – 2014): PG Projects	5,000/-
The role positive emotions in enhancing the attention span of children		5,000/-
Relationship between work motivation, psychological capital and performance in employees		5,000/-
Organizational Climate and Physical Environment as Predictors of Work Engagement	UGC-CPE (2014 – 2015): PG Projects	6,000/-
Stress and Work-Life Imbalance: A Study of Advocates		6,000/-
PsyCap, Quality of Work Life and Organizational commitment among employees in an Indian setting		6,000/-
Total	16 Projects	2,76,000/-

18. Research Centre/facility recognized by the University: Nil

19. Publications:

Name of Faculty	Papers			Books		Total Publications	Impact Factor	Total Citation	h-Index	SNIP	SJR
	Inter-national	National	Proceedings	Inter-national	National						
Dr. Shobhana Abhyankar	5	10	16	1	1	33	1.33	3	1	-	-
Dr. Megha Deuskar	2	4	11	1	-	18	1.06	5	2	-	-
Smt. Sheetal Ruikar	3	-	3	-	-	6	-	-	-	-	-
Dr. Anand Godse	3	-	1	-	-	4	-	6	1	2	2
Shri. Anil Sawarkar	1	-	7	-	-	8	-	-	-	-	-
Total	14	14	38	2	1	69	2.39	14	4	2	2

20. Areas of Consultancy and Income generated:

Nature of Consultancy	Name of the Industry/ NGO/ Institute or any Other	Income Generated, if any(Rs.)
Career counselling at MAANAS Centre	Fergusson College	82,500/-
Aptitude testing and screening of applicants for Class-III and IV posts	DES	Honorary Consultancy

21. Faculty as members in a) National Committees b) International Committees c) Editorial Board:

Name of Faculty Members	National Committee/International Committee/Editorial Board	Any other Committee/Board
Dr. Shobhana Abhyankar	<p>National:</p> <ul style="list-style-type: none"> i. Scientific Committee of National Conference organized by Alzheimer and Related Diseases Society of India ii. Executive Committee Member of Indian Association of Human Behaviour iii. Life member of All India Association of Advancing Research in Obesity iv. Life member of Alzheimer and Related Diseases Society of India (ARDSI) (Pune chapter) v. Life member of Indian Association of Mental Health <p>Editorial Board:</p> <ul style="list-style-type: none"> i. Associate editor of International Journal of Health, Wellness and Society ii. Editorial Board for the Proceedings of the National Seminar on 1) Health and Wellbeing (2011) and 2) Developing Human Potential (2013) 	<ul style="list-style-type: none"> i. BOS - St. Mira's College for Girls ii. BOS - Symbiosis College of Arts & Commerce iii. External Expert, IQAC, SNDT, Pune iv. Member of Expert Committee for Pre-Ph.D. interviews at SPPU, Pune
Dr. Megha Deuskar	<p>National:</p> <ul style="list-style-type: none"> i. Life member of All India Association of Advancing Research in Obesity <p>Editorial Board:</p> <ul style="list-style-type: none"> i. Editorial Board for the Proceedings of the National Seminar on 1) Health and Wellbeing (2011) and 2) Developing Human Potential (2013) 	-

22. Student projects:

- a) Percentage of students who have done in-house projects including inter departmental/programme: UG – 57; PG – 100%.

Academic Year	Number of In-House Projects (UGC-CPE, UGC-BSR and PG Projects)	% of students involved against number of students enrolled for class
2010-2011	UG – 14, PG – 30	UG - 18%, PG - 100%
2011-2012	UG – 12, PG – 27, UGC-CPE – 01	UG - 19%, PG - 100%
2012-2013	UG – 06, UGC-CPE – 05 PG – 27	UG – 12.5%, PG - 100%
2013-2014	UG – 09, UGC-CPE – 01 PG – 20, UGC-CPE – 04	UG – 13.5%, PG - 100%
2014-2015	UG – 09, UGC-CPE – 01 PG – 21, UGC-CPE – 03	UG - 13%, PG - 100%

- b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/ Industry/other agencies: 28%

Academic Year	Number of Outside Projects (Research Labs, Industry, NGO's etc.,)	% of students involved against number of students enrolled for class
2010-2011	11	30%
2011-2012	09	29%
2012-2013	08	30%
2013-2014	06	25%
2014-2015	06	25%

23. Awards/Recognitions received by faculty and students:

Title of Award/Recognition	Name of Faculty/Student	Year
Faculty		
Rashtriya Gaurav Puraskar, by India International Friendship Society, New Delhi	Dr. Shobhana Abhyankar	2011
Best paper award at International Conference in Psychology, Ahemadabad	Dr. Megha Deuskar	2014
Dr. Manju Thakur Memorial Award for Distinguished Innovative Work in Research, at International Conference in Psychology, Ahemadabad	Dr. Shobhana Abhyankar	2014
‘Therapist of the Workshop’ honour at the Intensive Practical Training and Supervision of 14 hours in National Level Rational Behaviour Therapy, REBT-Level 2 Workshop held at Albert Ellis Institute, India	Shri. Anil Sawarkar	2015
Students		
PG examination by Pune University – Gold Medal	Krithika Padmanabhan	2010
The best paper award at National Seminar on ‘Research: Interdisciplinary Approaches in Management, Humanities, Social Sciences and Languages’, organized by Late Bindu Ramrao Deshmukh Arts and Commerce Mahila Mahavidyalaya, Nashik Road	Sanhita Karmalkar	2012
Selected for 1st Maharashtra State Selection Tournament in Women’s Singles held at Aurangabad, and was the semi-finalist of 2nd Maharashtra State Selection Tournament in Women’s Singles held at Khar Gymkhana, Mumbai	Anuradha Shrihande	2013
The Vinod Doshi Fellowship of Rs. One lakh for being a promising young theatre activist. She has also played the lead role of Savitribai Phule in the acclaimed Marathi play ‘Satyashodhak’, which recently completed 100 shows	Parna Pethe	2013
The Shri B. G. Deshmukh prize for deserving student	Rachael Mascarenhas	2013
Smt. G. Radhabai & Shri A. V. Rajagopal Scholarship Prize	Kohinoor Darda	2014
The Late Shri W. K. Joglekar & Late Smt. R. W. Joglekar Prize	Girija Patwardhan	2014
Avishkar research competition held at state level – Second Prize	Nikunja Gujar	2014

The Best Paper Presentation Award at the 18th IAAP International Conference on Psychology for Holistic Living in Global World, organized by Gujarat Law Society, Ahmedabad	Tejaswini Bhawe	2014
Late Smt. Shanta R. Vaze Prize and Late Smt. Anuradha Shahane Prize for Topper in Psychology	Anuradha Srikhande	2014
Smt. G. Radhabai and Shri A.V. Rajagopal Scholarship for girl student selected on merit basis	Nikunja Gujar	2014
Dr. R. J. Rathi Past Student FCP for a deserving student	Sagar Sulakhe	2014
Avishkar, a research competition held at state level – Second Prize	Shamika Khatawkar	2015
The Best Paper Award at the International Conference held at Madras University	Supriya Jadhavrao	2015
The Best Paper Award at the International Conference held at Madras University	Shreya Adhav	2015
Shri. B. G. Deshmukh Scholarship to deserving student	Shamika Khatawkar	2015
Deserving student Scholarship	Suraj Bholane	2015
Deserving student Scholarship	Siddharth Shyamsundar	2015
Selected as Chair Umpire for Men's ITF \$10000 Tennis Tournament in Chennai	Avanee Gosavi	2015
Award for acting in Firodiya Karandak, Inter-collegiate drama competition	Dharana Pandit	2015

24. List of eminent academicians and scientists/visitors to the department:

- Prof. Rybak Christopher, Bradley University, Illinois, USA
- Dr. Vidula Abhyankar, Jail Psychologist, Australia
- Dr. Arpana Inman, Full Bright Scholar, Lehigh University
- Dr. Matthijs Cornellisen, Director, Indian Psychology Institute, Pondicherry
- Dr. Ram Takwale, Former Vice Chancellor, SPPU, Pune; YCMOU and IGNOU
- Dr. B. J. Prashantham, Director, Christian Counselling Centre, Vellore
- Dr. Kiran Kumar, Professor, Department of Psychology, University of Mysore, Mysore
- Dr. Dileep Ranjekar, CEO, Azim Premji Foundation, Wipro
- Dr. Indira Jai Prakash, Former Head and Gerantologist, Department of Psychology, Bangalore University, Bangalore
- Prof. K. B. Kumar, Dean and Head of Clinical Psychology, Sweekarar Academy, Secunderabad
- Dr. Veena Apte, Global Director, Organizational Change and Development, SKF, India
- Dr. Anil Kulkarni, Fulbright Scholar, USA
- Dr. Sandeep Narang, Fellow Fulbright Scholar, USA
- Dr. Usha Ram, Former Head, Dept of Psychology, Pune University
- Dr. Shashank Shah, Laparoscopic Bariatric Surgeon, Director of Laparo-Obeso Centre

- Dr. Anuradha Sovani, Dept of Applied Psychology, Mumbai University
- Prof. S. W. Deshpande, Former Head, Dept of Psychology, SPPU, Pune
- Dr. C. G. Deshpande, Former Head, Dept of Applied Psychology, Mumbai University
- Dr. Medha Kumthekar, Former Head, Department of Psychology, SNTD University, Pune Campus
- Dr. P. H. Lodhi, Professor and Former Head, Department of Psychology, SPPU, Pune
- Dr. B. R. Shejwal, Professor and Head, Department of Psychology, SPPU, Pune
- Dr. Kalpana Srivastava, Scientist 'F', Clinical Psychologist, Dept of Psychiatry, Armed Forces Medical College, Pune
- Shri Sudhir Phatak, Sr. Manager, Tata Motors
- Dr. Bharat Desai, Founder, Academy of Personality Development, Pune

25. Seminars/Conferences/Workshops organized & the source of funding:

Year	Title of Seminar/ Conference/Workshop	Funding Agency	Amount Sanctioned (Rs.)
2010 - 2011	National Conference on Health and Wellbeing: Contemporary Issues and Perspectives	UGC	1,05,000/-
2012 - 2013	National Conference on Developing Human Potential: Issues, Perspectives and Challenges	UGC	1,60,000/-

26. Student profile programme/course wise: Undergraduate

Academic Year	Applications received	Selected	Enrolled		Pass percentage (%)
			M	F	
2010-2011	112	64	09	55	97%
2011-2012	128	88	05	83	97%
2012-2013	101	74	05	69	96%
2013-2014	110	78	04	74	95%
2014-2015	130	84	05	79	Results awaited

Postgraduate:

Academic Year	Applications received	Selected	Enrolled		Pass percentage
			M	F	
2010-2011	129	30	-	30	97%
2011-2012	91	30	02	28	100%
2012-2013	112	26	03	23	93%
2013-2014	86	25	03	22	100%
2014-2015	90	27	02	25	Results awaited

27. Diversity of Students: Undergraduate:

- Subject wise data on student diversity is not available. Data on overall diversity of students is given in Point No. 22 of Institutional Profile.

Postgraduate:

Academic Year	% of students from same state	% of students from other states	% of students from abroad
2010-2011	20	6	4
2011-2012	22	5	3
2012-2013	17	7	2
2013-2014	19	3	3
2014-2015	20	3	4

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.?: NET - 09, SET - 02, JRF - 02

29. Student progression:

Student progression	Against % enrolled
UG to PG	80% - 90%
PG to M.Phil.	5% - 10%
PG to Ph.D.	10% - 15%
Ph.D.to Post-Doctoral	1%
Employed	
• Campus selection	20%
• Other than campus recruitment	60%
Entrepreneurship/Self-employment	20%

30. Details of Infrastructural facilities:

- Library (Departmental Library): Area – 150 sq.ft.; Number of Books - 465; Number of Journals Subscribed – 11
- Internet facilities for Staff & Students: Computers with Internet – 12
- Classrooms/Laboratories with ICT facility – 01 (Classroom)
- Laboratories: Laboratory-I: 1000 sq.ft.

31. Number of students receiving financial assistance from college, university, Government or other agencies:

- UGC-CPE – 14; Volkswagen – 01, BCUD – SPPU, Pune – 02 (Avishkar Fellowship of Rs. 30,000/- for 1 Year for 2013-2014 winner at State level and Rs. 3000/- per month for 2014-2015 winner at State level)
- An average of 60% students get financial assistance from Central/ State government agencies in the form of Scholarship/Freeship

32. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts:

Year	Title/Type of Programme	Names of Resource Person(s) (External)
2010-2011	Poster Presentation by Schizophrenia Awareness Association and Babu's Trust on tragedy of Erawadi Memorial Day (August 6th)	Smt. Bhargavi Dalal and Shri. Gurudutt Kundapurkar, Experts from SAA and Babu's Trust
	Guest Lecture on Psychotic Disorders	Smt. Chitra Khare, Practising Psychologist, Pune
	Outbound Training Program on Group Counselling Skills	Dr. Christopher Rybak, Bradley University
	Observational Internship Programme (OPD of Jahangir Hospital for observation of clinical cases)	Dr. Hemant Chandorkar, Practising Psychiatrist, Pune
	Study Visit to Chaitanya Rehabilitation Centre	Experts at CRC
	Training Workshop on Organisational Change and Career Planning	Mr. Michael David, Corporate Trainer, Tata Management Training Centre, Pune
	Training Workshop on Firo-B	Prof. P.A. Bhagwatwar, Former Head, Department Of Applied Psychology, University of Mumbai
	Student internship at Atyaasa, Training Consultancy Company	Shri. Rushikesh Rajendra, CEO, Atyaasa Consultancy, Pune
	Student internship at Positive Steps, an NGO	Dr. Sanyogita Nadkarni, Practising Psychiatrist, Pune
2011-2012	Observational Internship Programme (OPD of Jahangir Hospital for observation of clinical cases)	Dr. Hemant Chandorkar, Practising Psychiatrist, Pune
	Guest Lecture on Work Opportunities for Psychology Students	Dr. Amod Borkar, Santulan De-addiction and Rehabilitation Centre
	Panel Discussion for PG and UG Students called Mukta Samvad	Industrial and Management Experts in Collaboration with Chatur Knowledge Networking Pvt. Ltd.
	One Day Workshop on Employee counselling for M.A. Industrial Psychology Students	Shri. Omkar Mandke, Free Lance trainer, Pune
	Guest Lecture on Role of Spirituality in an Individual's Life	Experts from Brahma Kumari
	Observational Internship Programme	Dr. Amod Borkar, Santulan De-addiction and Rehabilitation Centre
	Guest Lecture on Neuropsychology	Smt. Vidula Abhyankar, Australia
	Guest Lecture on Importance of training and Skills while dealing with children	Team Childology, Pune
	Guest Lecture on topic Psychology and Law	Ms. Gargi Paigude, Legal Department, TCS
	Three Day Workshop on Indian Psychology	Dr. Matthijs Cornellisen, Director, Indian Psychology Institute, Pondicherry

2012-2013	Guest Lecture on Drug Addiction	Mr. Indrajit Deshmukh, Project Co-ordinator, Santulan
	Guest Lecture and Workshop on Statistical Methods in Psychology	Dr. Medha Kumthekar, Former Head, SNDT, Pune
	Guest Lecture on Suicidal Tendencies	Mr. Bobby Zakaria, CEO, Connecting Suicide Prevention Helpline, Pune
	Guest Lecture on Neuropsychology and Career Opportunities	Ms. Gayatri Salunke, Advocate, DES Law College
	Observational Internship Programme	Dr. Chandorkar, Practising Psychiatrist, Pune
	Guest Lecture Dermatoglyphics Inborn Talent Analysis for Postgraduate Students	Shri. Shekar Rajguru and Smt. Rohini Master, Nashik
2013-2014	Observational Internship Programme (OPD of Jahangir Hospital for observation of clinical cases)	Dr. Hemant Chandorkar, Practising Psychiatrist, Pune
	Achievement of specific goals: A motivational session	Ms. Krithika Padmanabhan, HR Trainer
	Creating awareness about de-addiction counselling	Smt. Mugdha Joshi, Practising Counselor, Pune
	Use of psychometry in industry	Shri. Divyanshu Ganatra, Director, Yellow Brick Road
	Developing intra-personal skills (UG & PG)	Ms. Maithily Pendse, Alumni, Psychology Department
	Enhancing body-awareness and confidence through dance and movement (PG)	Smt. Anubha Doshi, Artsphere, Pune
	Communication skills through theatre-based activity (PG)	Ms. Parna Pethe, Ex-student, FCP
	Developing employee counselling skills (MA-II)	Shri. Omkar Mandke, Free lance trainer, Pune
	Short term course in Abnormal Psychology	Ms. Pooja Prabhavalkar Ms. Suchitra Banerjee Ms. Zahra Poonawala Shri. Indrajit Deshmukh, Santulan
	2014-2015	Workshop on 'Procrastination among students: A mental health perspective'
Guest lecture on 'Entrepreneurship in Psychology'		Shri. Parivesh Lama, Raa, Pune
Workshop on 'Research Writing'		Dr. Justin Scarimbolo, Research Scholar, Pune
Two day statistics workshop MA Part I students		Dr. Medha Kumthekar, Former Head, SNDT, Pune and Dr. Meenakshi Gokhale, S. P College, Pune
Workshop on 'Drama Therapy'		Shri. Omkar Mandke, Free lance trainer, Pune
Guest lecture on 'Ethnography: A qualitative approach to research'		Smt. Vandana Palsane, Shri. Siddhivinayak Mahila Mahavidyalaya, Karvenagar, Pune
Workshop on Motivation in Educational Setup: An Experiential Learning Perspective		Shri. Siddhesh Barale, Experiential Educationist, Pune
A full-day training workshop on 'MBTI: Administration, scoring and interpretation'		Dr. Aruna Kulkarni, a Certified Trainer, MyMindMatters, Pune

	A full-day training workshop on 'Rehabilitation of Mental Health Patients' on 12 th March, 2015	Smt. Chitra Khare, Practising Psychologist, Pune
	An Interaction Session on 'From College Campus to Corporate: A Success Story'	Dr. Veena Apte, Global Director, Organisational Change and Development, SKF
	Eye Movement De-sensitization & Re-processing (EMDR) Psychotherapy Training	Ms. Adithy, Psychotherapist

33. Teaching methods adopted to improve student learning:

- Lecture
- Discussion
- Role plays / skits
- Debates
- Quizzes
- Groups discussion
- On-line assignment
- Power Point Presentation
- Simulation activities
- Workshops
- Field activities
- Assignments, e.g. process mapping, term paper, job analysis etc.
- Mock sessions
- Internet
- Departmental festival activities
- Students presentations
- Projects
- Journal reading

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

- Counselling – personal and career
- Suryanamaskar sessions
- Meditations sessions
- Stress management sessions
- Research project on “Positivity: An antidote to anger among adolescents”, to identify the causes of anger and to access training needs, and subsequently plan training programmes for students and parents.

35. SWOC analysis of the department and Future plans:

Strengths: <ol style="list-style-type: none">1. Vibrant students2. Going beyond Curriculum3. Mentoring4. Promotion of Research5. Individual Expertise6. Optimum ICT facilities
Weaknesses: <ol style="list-style-type: none">1. Insufficient space
Opportunities: <ol style="list-style-type: none">1. Consultancy in Research and Training2. Placement Centre specifically for Psychology3. Partnerships and collaboration with Industry4. Community based activity5. Collaborative programmes with Alumni
Challenges: <ol style="list-style-type: none">1. Increase in pace and market demands2. More number of students opting for Psychology3. Diversification of Education4. Multifacetedness of a teacher5. Skill-based education6. Curricula to face Global competition

Future Plans

- Research Centre
- Short-term courses in Health Psychology, Industrial Psychology
- Expansion of individual research to departmental research projects
- Consultancy to industrial and other organizations
- Strengthening of alumni-academia interface for collaborative programmes/activities.



1. Name of the Department: **Sanskrit**
2. Year of Establishment: 1885
3. Names of programmes/courses offered: B.A.
4. Names of Interdisciplinary Courses and department/units involved: Nil
5. Annual/Semester/Choice based Credit system (programme wise):
B.A. - Annual
6. Participation of the department in the courses offered by other departments: Nil
7. Courses in collaboration with other Universities, Industries, Foreign Institutions, etc.: Nil
8. Details of courses/programmes discontinued (if any) with reasons: Nil
9. Number of Teaching Posts:

Undergraduate/Post Graduate	Sanctioned	Filled
Assistant Professors	01	-
Assistant Professors (Temporary)	-	02

10. Faculty profile:

Name	Qualification	Designation	Specialization	Experience
Smt. Radhika Kulkarni	M.A.	Assistant Professor	Sanskrit Grammar	02
Smt. Nidhi Wader	M.A.	Assistant Professor	Sanskrit Grammar	02

11. List of Senior Visiting Faculty: Nil
12. Percentage of Lectures delivered and practical classes handled (programme wise) by temporary faculty:

Year	Total Work load of department	Total workload of Permanent faculty	Lectures delivered by Temporary Faculty	
			Number	Percentage %
2010-2011	32	20	12	40
2011-2012	32	20	12	40
2012-2013	32	20	12	40
2013-2014	32	-	32	100
2014-2015	32	-	32	100

13. Student-Teacher Ratio (programme wise):

Level	Class	Number of Teachers	Student-Teacher Ratio
	B.A. Students Strength (F.Y. + S.Y. + T.Y.) / 6		
Undergraduate	$(31 + 6 + 6) = 43$ $43/6 = 7$	2	$7/2 = 4:1$

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: Nil

15. Qualification of teaching faculty with D.Sc./D.Litt./Ph.D./M.Phil./ PG: PG - 02
16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil
17. Departmental Projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received: Nil
18. Research Centre/facility recognized by the University: Nil
19. Publications: Nil
20. Areas of Consultancy and Income generated: Nil
21. Faculty as members in a) National Committees b) International Committees c) Editorial Board: Nil
22. Student projects:
 - a) Percentage of students who have done in-house projects including inter departmental/programme: Nil
 - b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies: Nil
23. Awards/Recognitions received by faculty and students:

Title of Award/Recognition	Name of Faculty/Student	Year
Pandit Satavalekar Award	Dr. Prasad Joshi	2011

24. List of eminent academicians and scientists/visitors to the department:
 - Dr. Uma Vaidya Vice chancellor, Kalidas Sanskrit Vidyapeeth
 - Ms. Anne Feldhaus, Arizona State University, USA.
25. Seminars/Conferences/Workshops organized & the source of funding:

Year	Title Seminar/ Conference/Workshop	Funding agency	Amount Sanctioned (Rs.)
2011-2012	Workshop on 'Sandhi'	College	5,000/-
2011-2012	Dr. R. N. Dandekar memorial Seminar on Modern Sanskrit Literature: A Study	SPPU, Pune	8,000/-
2013-2014	Brihanmaharashtra Prachya Vidya Parishad	Brihanmaharashtra Prachya Vidya Parishad and College	3,00,000/-

26. Student profile programme/course wise:

Academic Year	Applications received	Selected	Enrolled		Pass percentage %
			M	F	
2010-2011	04	04	01	03	100
2011-2012	09	09	03	06	89
2012-2013	08	08	03	05	75
2013-2014	05	05	02	03	80
2014-2015	06	06	03	03	Results Awaited

27. Diversity of Students: Undergraduate

- Subject wise data on student diversity is not available. Data on overall diversity of students is given in Point No. 22 of Institutional Profile.

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.?: NET - 04

29. Student progression:

Student progression	Against % enrolled
UG to PG	100
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed	-
• Campus selection	
• Other than campus recruitment	
Entrepreneurship/Self-employment	-

30. Details of Infrastructural facilities:

- Library (Departmental Library): Number of Books – 82
- Internet facilities for Staff & Students:
Computers with Internet – 01
- Classrooms/Laboratories with ICT facility – 01

31. Number of students receiving financial assistance from college, university, government or other agencies:

- An average of 60% students get financial assistance from Central/ State Government agencies in the form of Scholarship/Freeship

32. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts: Nil

33. Teaching methods adopted to improve student learning:
- Interaction
 - Seminar method
 - Remedial teaching
34. Participation in Institutional Social Responsibility (ISR) and Extension activities: Nil
35. SWOC analysis of the department and Future plans:

Strengths: 1. Sanskrit drama and elocution competitions have helped in popularizing the subject
Weaknesses: 1. Limited number of students
Opportunities: 1. Central Government policies are conducive to promotion of the language
Challenges: 1. Convincing students about the relevance of Sanskrit in modern society

Future plans

- To start interdisciplinary course with various departments
- To start Post Graduate Programme
- To establish a Research Centre for development of Sanskrit Language.



1. Name of the Department: **Sociology**
2. Year of Establishment: 1960
3. Names of Programmes/Courses offered: B.A.
4. Names of Interdisciplinary Courses and department/units involved: Nil
5. Annual/Semester/Choice based Credit system (programme wise): B.A. – Annual
6. Participation of the department in the courses offered by other departments: Nil
7. Courses in collaboration with other Universities, Industries, Foreign Institutions, etc.: Nil
8. Details of courses/programmes discontinued (if any) with reasons: Nil
9. Number of Teaching Posts:

Undergraduate	Sanctioned	Filled
Associate Professors	01	01
Assistant Professors	01	01
Assistant Professors (Temporary)	-	01

10. Faculty profile:

Name	Qualification	Designation	Specialization	Experience (Years)
Shri. Nishant Gadpayle	M.A., M.Phil., B.Ed.	Associate Professor	Rural Sociology	17
Smt. Sunita Pandhe Gupta	M.A., M.S.W., M.Phil.	Assistant Professor	Women's Studies Environmental Studies, Sociology of the weaker sections and human rights	09
Smt. Deepti Jadhav	M.A.	Assistant Professor	Law	02

11. List of Senior Visiting Faculty: Nil
12. Percentage of Lectures delivered and practical classes handled (programme wise) by temporary faculty:

Year	Total Workload of Department	Total Workload of Permanent Faculty	Lectures delivered by Temporary Faculty	
			Number	Percentage (%)
2010-2011	40	40	-	-
2011-2012	40	40	-	-
2012-2013	40	40	-	-

2013-2014	44	40	04	10
2014-2015	44	40	04	10

13. Student-Teacher Ratio (programme wise):

Level	Class	Number of Teachers	Student-Teacher Ratio
	B.A. Students Strength (F.Y. + S.Y. + T.Y.) / 6		
Undergraduate	(317 + 27 + 27) = 371 371/6 = 62	3	62/3 = 21:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: Nil

15. Qualification of teaching faculty with D.Sc./D.Litt./Ph.D./M.Phil./PG: PG – 01; M.Phil. - 02

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil

17. Departmental Projects funded by DST-FIST; UGC, DBT, ICSSR, etc., and total grants received:

Title of Project	Funding from DST-FIST/UGC XI Plan, XII Plan, DBT, Any Other	Grant received (Rs.)
Street Economy of Ganesh Utsav	UGC-CPE (2011 - 2012)	10,000/-
The Urban Commons - Poster		
A day in the life of a worker - Photo documentation		
Resource Base on social issues related to communalism		
Across the walls in Wadarwadi		
Story of Puff - documentary film	UGC-CPE (2011 - 2012)	5,000/-
Struggles of the streets - documentary film		
Mapping child care in the area of Kalakhadak slum/PCMC - A slum survey	UGC-CPE (2012 - 2013)	10,000/-
Behind the Counter: Globalization and Urban Youth		
Street economy on Fergusson College - Photo documentation		
Resource base on 'gender'		
Use and misuse of mobile phones among youth	UGC-CPE (2013 - 2014)	10,000/-
The working of CASH (Committee against sexual harassment) in Pune Colleges		
Waste, waste-pickers and their lives: Case studies of waste collectors		
Waste-pickers and National Social Assistance Programme		
Hamari Awaaz	UGC-CPE (2013 - 2014)	15,000/-
Nine to five: Representation of industrial work in popular media	UGC-CPE (2014 - 2015)	2,500/-
Portrayal of masculinity in popular Bollywood cinema – A content analysis		

18. Research Centre/facility recognized by the University: Nil

19. Publications: Nil
20. Areas of Consultancy and Income generated: Nil
21. Faculty as members in National Committees b) International Committees c) Editorial Board:

Name of Faculty	National Committee/International Committee/Editorial Board	Any other Committee/Board
Smt. Sunita Pandhe Gupta	-	Member - Syllabus Revision Committee , SPPU, Pune

22. Student projects:
- a) Percentage of students who have done in-house projects including inter departmental/programme: UGC-CPE - 18

Academic Year	Number of In-House Projects (UGC-CPE, UGC-BSR and PG Projects)	% of students involved against number of students enrolled for class
2010-2011	-	-
2011-2012	07 (UGC-CPE)	42%
2012-2013	04 (UGC-CPE)	25%
2013-2014	05 (UGC-CPE)	30%
2014-2015	02 (UGC-CPE)	17%

- b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/ Industry/other agencies: 19%

Academic Year	Number of Outside Projects (Research Labs, Industry, NGO's etc.,)	% of students involved against number of students enrolled for class
2010-2011	03 projects with KKKPK (06 students)	15%
2011-2012	-	-
2012-2013	01 project on mapping child care arrangements in slum for NGO Tathapi (07 students)	18%
2013-2014	02 projects with KKKPK and 02 with Tathapi (11 students)	25%
2014-2015	-	-

23. Awards/Recognitions received by faculty and students:
- Louis Braille Award for the year 2012 by Andh Apang Kalyan Sanstha, Pune.
24. List of eminent academicians and scientists/visitors to the department:
- Padmashri and Padma Bhushan Prof. Madhav Gadgil, renowned Ecologist
 - Prof. Vijay Paranjpye, Senior Environmentalist, Gomukh Environmental Trust
 - Prof. Sanjeev Ghotge, Joint Director (Research) and Head, Centre for Climate and Sustainability Policy, WISE, Pune
 - Ms. Rajni Bakshi, Social Scientist, Senior Journalist and Writer
 - Dr. Meera Oak, Social Scientist and Practitioner

- Advocate Aseem Sarode, Human Rights Practitioner
- Ms. Sehjo Singh, Film Maker and Director Action Aid
- Ms. Urmila Mohite, Film Maker, EMRC, Pune
- Prof. Anurekha Chari, Department of Sociology, SPPU, Pune
- Ms. Neela Sharma, Freelance Journalist
- Prof. Edward Rodrigues, Centre for the Study of Social Systems, JNU, New Delhi
- Prof. Dilip Simeon, Historian, Writer and Public Intellectual
- Prof. Anjali Nerlekar, Rutgers University, USA
- Ms. Madhura Lohokare, Research Scholar, Syracuse University, New York
- Dr. Medha Kotwal, Political Scientist, Founder Director, Aalochana Documentation Centre for Women
- Prof. Vijay Kunjeer, Teacher Scholar
- Ms. Laxmi Narayan, General Secretary, Waste Matters
- Shri. Avinash Madhale, Programme Officer, Centre for Environment Education (Urban Study Group)
- Prof. Aseem Shrivastava, Economist, Environmentalist and Philosopher
- Shri. Ashish Kothari, Founder Member, Kalpavriksh Environmental Group
- Ms. Medha Kale, Women and Health Activist, Tathapi
- Padmashri Prof. Ganesh Devy
- Prof. Vishram Dhole, Department of communication and Studies, SPPU, Pune
- Ms. Neema Pathak, Environmentalist, Member, Kalpavriksh
- Mr. Anand Pawar, Executive Director, Samyak, Pune
- Ms. Aditi Rao, Freelance Writer, New Delhi
- Ms. Gunjan Yadav, Research Scholar, JNU.

25. Seminars/Conferences/Workshops organized & the source of funding:

Year	Title of Seminar/Conference/ Workshop	Funding Agency	Amount Sanctioned (Rs.)
2010-2011	Workshop on Media and Society	SPPU, Pune (QIP)	20,000/-
2011-2012	Seminar on Understanding the Urban	SPPU, Pune	20,000/-

26. Student profile programme/course wise: Undergraduate

Academic Year	Applications received	Selected	Enrolled		Pass percentage (%)
			M	F	
2010-2011	250	206	124	82	96
	45	33	14	19	
2011-2012	300	251	141	110	94
	75	50	24	26	
2012-2013	300	219	112	107	97
	50	32	17	15	

2013-2014	350	212	92	120	97
	55	35	18	17	
2014-2015	260	245	96	149	Results Awaited
	35	27	10	17	

27. Diversity of Students: Undergraduate
- Subject wise data on student diversity is not available. Data on overall diversity of students is given in Point No. 22 of Institutional Profile.

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.? NET - 05, SET – 02, MPSC - 01.

29. Student progression:

Student progression	Against % enrolled
UG to PG	94%
PG to M.Phil.	16%
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed	
• Campus selection	-
• Other than campus recruitment	-
Entrepreneurship/Self-employment	-

30. Details of Infrastructural facilities:

- Library (Departmental Library): Number of Books - 96
- Internet facilities for Staff & Students:
Computers with Internet - 01
- Classrooms with ICT facility - Nil

31. Number of students receiving financial assistance from college, university, government or other agencies:

- An average of 60% students get financial assistance from Central/ State Government agencies in the form of Scholarship/Freeship

32. Details on student enrichment programmes (special lectures/ workshops/seminars) with external experts:

Year	Title/Type of Programme	Names of Resource Person(s) (External)
2010-2011	9 workshops and guest lectures	Shri. Aseem Sarode, Sehjo Singh, Smt. Urmila Mohite, Smt. Shabnam Diler, Shri. Kailash Yesge, Shri. Shivaji Mane, Smt. Anurekha Chari, Shri. K. Vartak, Smt. Neela Sharma, Eddie Rodrigues, Shri. Dilip Simeon, Smt. Anjali Nerlekar
2011-2012	8 workshops and guest lectures	Smt. Madhura Lohokare, Dr. Medha Kotwal, Shri. Vijay Kunjeer, Smt. Laxmi Narayan, Shri. Avinash Madhale, Ms. Isabel, Ms. Shrutika
2012-2013	4 workshops and guest lectures	Prof. Aseem Shrivastava, Shri. Ashish Kothari, Shri. Vijay Kunjeer, Ms. Rifat, Deepa, Smt. Medha Kale, Ms. Pradnya

2013-2014	7 workshops and guest lectures	Prof. Ganesh Devy, Prof. Vishram Dhole, Smt. Neema Pathak, Shri. Anand Pawar, Smt. Aditi Rao, Smt. Gunjan Yadav, Shri. Vijay Kunjeer
2014-2015	5 Lecture - presentations	Ms. Shruti Vaidya, research scholar, TISS, Mumbai. Ms. Gunjan Yadav, research scholar, JNU, New Delhi Akshay Indikar, film maker, FTII, Pune Nidhin Shobhana, scholar activist, Women's Studies Centre, SPPU, Pune Kalyani Vartak, research scholar, TISS, Mumbai

33. Teaching methods adopted to improve student learning
- Creative and innovative learning methods: Prolific use of films, novels, poems, picture analysis, charts, simulation exercises, class debates, student presentations and role plays
 - Student Research Activity: Students are involved in surveys, case studies, ethnography projects
 - Regular field trips and NGO visits: To supplement classroom learning and to link theoretical understanding with ground reality several visits are organized throughout the year
 - Focus on Skills Development: like research, report writing, interviewing, and human relations
 - A Certificate Course on 'Women and Development' is conducted by the Women's Studies Centre, SPPU, Pune every year
 - Workshops, Seminars and Lecture Series: These are organized on contemporary themes.
34. Participation in Institutional Social Responsibility (ISR) and Extension activities:
- 2010 – 2011: Working with KKPKP (Adult Literacy, Need assessment survey, dignity rally, eco friendly Ganesh Visarjan) Ankur Vidyamandir, Doorstep school, visit to Hiware Bazaar, work with blind students of our college
 - 2011 – 2012: KKPKP (Summer Internship, Segregation Drive, Eco friendly Ganesh Visarjan, Eco friendly college fests, V – Collect drive), Doorstep schools, Ankur Vidyamandir, Hutatma Rajguru School, Santulan Deaddiction Centre, Vanchit Vikas, Prism Foundation, Study Circle for the blind and Open Space
 - 2012 – 2013: KKPKP, Doorstep Schools, Ankur Vidyamandir, Hutatma Rajguru School, Badhir Mook Shikshan Kendra, Santulan Deaddiction Centre, Vanchit Vikas, Prism Foundation, Forbes Marshall and Study Circle for the blind
 - 2013 - 2014: KKPKP (Surveys for Pension Parishad, Ecological Audit of Abhinav School, V Collect drive, Jan Sunwai, case studies, ration shop survey), Tathapi Trust, Guru Ramdas Primary School, Doorstep schools, Ankur Vidyamandir, Hutatma Rajguru School, Badhir Mook Shikshan Kendra, Santulan Deaddiction Centre, Vanchit Vikas, Prism Foundation, Forbes Marshall and Saathi Enabling Centre
 - 2014-2015: This year 300 students volunteered for 15 organisations namely, KKPKP, Ankur Vidyamandir Doorstep School, Aalochana, Vanchit Vikas, Prism Foundation Santulan – a

drug de addiction centre, Badhir Mook Shikshan Kendra, Department of Social Initiatives- Forbes Marshall, Hutatma Rajguru School, Tathapi, , Sant Ramdas, Aakansha Foundation, CYDA (Centre for Youth Development Activity), Green Campus Initiatives and *Saathi* Broadly the work included conducting surveys, organizing awareness campaigns, counseling, assisting teachers in day to day activities & during school annual days and other functions, conducting art and craft workshops, organizing clothes, toys and books collection drive and administrative work.

35. SWOC analysis of the department and Future plans:

<p>Strengths:</p> <ol style="list-style-type: none"> 1. Perspective building: Our thrust has been on building a sociological perspective which is holistic, critical and reflexive; rather than on information overload 2. Skill building: Focus on skills like interpersonal, organizational, leadership, writing, reporting, listening, documentation etc. in the process of organizing events, doing small research projects etc. 3. Provision of a wide array of learning opportunities and use innovative pedagogic practices: Learning is based on critical exploration of reality and aspires to be emancipatory, creative and socially relevant. We are committed to democratic pedagogic practices. Students are encouraged to do field work, visit NGOs, write case stories of people on streets, visits to slums and villages etc. Prolific use of films, case studies, debates, role plays, newspaper clippings, short stories, poems, posters and street plays is made in the process of learning
<p>Weaknesses:</p> <ol style="list-style-type: none"> 1. Size of Classrooms: The large size precludes personalized learning. And the challenge is how to meet the differential levels in a diverse class 2. Low motivation amongst students 3. Evaluation system is so archaic and outdated. The focus is only on information and not application of that in 'real' life
<p>Opportunities:</p> <ol style="list-style-type: none"> 1. Short term courses and hands on training can be given to students to reinforce learning outcomes and develop skills 2. Short term internships are available for students with media houses, NGOs and legal professionals
<p>Challenges:</p> <ol style="list-style-type: none"> 1. As market forces dominate the education system, there is a utilitarian pressure on the discipline. The challenge is to strike a balance between orientation of sociology as preparation for livelihood and preparation for life 2. Striking a balance between theory and practice, between local and global knowledge 3. Adapting to changing needs of our times in a creative and critical way

Future Plans

- Introducing short term courses in human rights, media studies, legal literacy, doing research, report writing
- Internships with NGOs, media houses, human rights groups
- Facilitating interdisciplinary and inter departmental activities among smaller departments.



1. Name of the Department: **Animation**
2. Year of Establishment: 2012
3. Names of Programmes/Courses offered: B.Sc.
4. Names of Interdisciplinary Courses and department/units involved: Nil
5. Annual/Semester/Choice based Credit system (programme wise)
B.Sc. (F.Y.) - Annual, B.Sc. (S.Y. and T.Y.) - Semester
6. Participation of the department in the courses offered by other departments: Nil
7. Courses in collaboration with other Universities, Industries, Foreign Institutions, etc.: Nil
8. Details of courses/ programmes discontinued (if any) with reasons: Nil
9. Number of Teaching posts:

Undergraduate	Sanctioned	Filled
Assistant Professors	02	-
Assistant Professors (Temporary)	-	02

10. Faculty profile:

Name	Qualification	Designation	Specialization	Experience (Years)
Shri. Prasad Shukla	Government Diploma in Drawing and Painting	Assistant Professor	2D Animation	09
Shri. Indrajit Saha	BCA	Assistant Professor	3D Animation	08

11. List of Senior Visiting Faculty:

Name	Institution/ Organisation
Shri Rajendra Joshi	Former Animator EMRC, SPPU, Pune
Shri. Nitin Chakranayaran	Founder and Director, Agog Studio, Pune
Smt. Sheetal Chakranarayan	CTO and Editor, Agog Studio, Pune
Ms. Dhanshri Muchandi	Professional Animation Artist, Pune
Smt. Suruda Kulkarni	Assistant Professor, Indira College, Pune
Shri. Rajesh Deshpande	Vtelebyte Software Pvt. Ltd., Pune
Smt. Anupama Spencer	Freelance Lecturer in Animation, Pune
Shri. Santosh Swain	Smart Cloud Infotech Pvt. Ltd., Pune

12. Percentage of Lectures delivered and practical classes handled (programme wise) by temporary faculty:

Year	Total Work load of department	Total workload of Temporary faculty	Lectures delivered by Visiting Faculty		Practical Classes handled by Visiting Faculty	
			Number	Percentage (%)	Number	Percentage (%)
2012-2013	36	12	18	60	02	50
2013-2014	69	36	16	55	01	40
2014-2015	102	38	47	50	02	65

13. Student-Teacher Ratio (programme wise):

Level	Class	Number of Teachers	Student-Teacher Ratio
Undergraduate	B.A. Students Strength (F.Y. + S.Y. + T.Y.)		
	48 + 32 + 17 = 97	6	97/6 = 14:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: Nil
15. Qualification of teaching faculty with D.Sc./D.Litt./Ph.D./M.Phil./ PG: Nil
16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil
17. Departmental Projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received: Nil
18. Research Centre/facility recognized by the University: Nil
19. Publications: Nil
20. Areas of Consultancy and Income generated: Nil
- Projects on e-learning for IKT Consulting Pvt. Ltd., Pune – Honorary Consultancy
21. Faculty as members in a) National Committees b) International Committees c) Editorial Boards:
- Shri. Prasad Shukla - Board of Studies, Expert Committee Member, SPPU, Pune
22. Student projects:
- Percentage of students who have done in-house projects including inter departmental/programme: Nil
 - Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies: Nil

23. Awards/Recognitions received by faculty and students: Nil
24. List of eminent academicians and scientists/visitors to the department: Nil
25. Seminars/Conferences/Workshops organized & the source of funding:

Year	Title of Seminar/ Conference/Workshop	Funding Agency	Amount Sanctioned (Rs.)
2012-2013	Workshop on Syllabus of Second Year Paper Pattern	SPPU, Pune	25,000/-

26. Student profile programme/course wise: Undergraduate:

Academic Year	Applications received	Selected	Enrolled		Pass percentage (%)
			M	F	
2012-2013	19	18	12	05	100
2013-2014	91	34	24	10	90
2014-2015	87	48	37	11	Results awaited

27. Diversity of Students: Undergraduate

Academic Year	% of students from the same state	% of students from other states	% of students from abroad
2012-2013	17	-	1
2013-2014	32	2	-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.?: Nil

29. Student progression:

Student progression	Against % enrolled
UG to PG	-
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed	-
• Campus selection	
• Other than campus recruitment	
Entrepreneurship/Self-employment	-

30. Details of Infrastructural facilities:
- Library (Departmental Library): Area – 486 sq.ft.; Number of Books - 133
 - Internet facilities for Staff & Students: Computers with Internet – 67
 - Classrooms/Laboratories with ICT facility – 01 (Classroom) + 03 (Laboratories)
 - Laboratories: Laboratory - I: UG – 936 sq.ft.; Laboratory - II: UG - 864 sq.ft.; Laboratory - III: 2D Laboratory - 1008 sq.ft.

31. Number of students receiving financial assistance from college, university, Government or other agencies:

- An average of 60% students get financial assistance from State Government agencies in the form of Scholarship/Freeship

32. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts:

Title/Type of Programme	Names of Resource Person(s) (External)
Workshop on 2D film making	Shri. Jay Salin, Animator, Mumbai
Workshop on Script Writing	Shri. Chetan Joshi, Freelancer Script Writer

33. Teaching methods adopted to improve student learning:

- Video Tutorials
- Seminars related to Animation Industry and Film Festivals to upgrade their knowledge

34. Participation in Institutional Social Responsibility (ISR) and Extension activities: Nil

35. SWOC analysis of the department and Future plans:

Strengths:
1. Qualified Faculty with Industry Experience
2. Students are creative with good visualization
3. Adequate space available with facility
Weaknesses:
1. Frequent updating of software and computer systems for Animation
2. Frequent updating of knowledge for faculties in updated version
3. Requirement of Animation Industry and up gradation
Opportunities:
1. Collaboration with Media and Entertainment Industry
Challenges:
1. Competition with other Colleges and Private Institutes
2. To develop competency among the students as per requirement of Industries

Future Plan

- To develop linkages with various Industries/Animation Studios for Placement and take small Projects from Industry to give students practical experience



1. Name of the Department: **Centre for Skill Development (B.Voc.)**
2. Year of Establishment: Undergraduate - 2014-2015
3. Names of Programmes/Courses offered:
 - Bachelor of Vocation Media & Communication
 - Bachelor of Vocation Digital Art & Animation
4. Annual / Semester / Choice based Credit system (programme wise):
Continual Assessment and Semester End Examination
5. Annual/Semester/Choice based Credit system (programme wise): Nil
6. Participation of the department in the courses offered by other departments: Nil
7. Courses in collaboration with other Universities, Industries, Foreign Institutions, etc.: Nil
8. Details of courses/programmes discontinued (if any) with reasons: Nil
9. Number of Teaching Posts (Temporary):

	Sanctioned	Filled
Associate Professors	01	01
Assistant Professors	02	02

10. Faculty Profile:

Name	Qualification	Designation	Specialization	Experience (Years)
Shri. Prasanna Deshpande	M.A.	Coordinator	British Literature Immigrant Fiction	09
Dr. Ramaa Golwalkar	B.M.C., M.M.C., M.A. (Indology), FAC (FTII & NFAC) Ph.D.	Associate Professor	Communication and Media	15
Shri. Rajeev Ghode	M.C.S. (Computer Science), M.Cm.S (Media Research) M.A. (Distance Education)	Assistant Professor	Media Research, Digital Arts and Animation	15
Shri.Swapnil Kamble	M.Sc. (Communication Studies) M. Phil. (Media and Cultural Studies)	Assistant Professor	Media Research	01

11. List of Visiting Faculty:

Name	Institute/Organization
Shri. Pankaj Salunkhe	Proprietor, Perfect Frames Media House, Pune. (Freelance in Audio Visual Production)
Ms. Sneha Gore	Freelance Journalist affiliated to Sakal Group Pvt. Ltd. and Star Maza
Shri. Vivek Athani	Freelance Cinematographer
Dr. Dnyaneshwar Shirude	Assistant Professor in English in M. U. College of Commerce, Pimpri, Pune
Shri Anshu Mishra	Freelance Script Writer for Animation Films
Shri Ravindra Pandey	Freelance Graphic Designer
Shri. Balu Tharkute	Head of Graphics, JRVTI
Ms. Anupama Spencer	Freelance Trainer for language skills
Shri. Prasad Shukla	In-charge, Animation, Fergusson College
Shri Ankur Shukla	Fergusson College, Pune

12. Percentage of Lectures delivered and practical classes handled (programme wise) by temporary faculty:

Media and Communication:

Year	Total Work load of department Per Week	Total workload of Temporary faculty	Lectures delivered by visiting faculty		Practical Classes handled by Visiting Faculty	
			Number	Percentage (%)	Number	Percentage (%)
2014-15	48	08	04	33	36	100

Digital Art and Animation:

Year	Total Work load of department	Total workload of Temporary faculty	Lectures delivered by temporary faculty		Practical Classes handled by Temporary Faculty	
			Number	Percentage (%)	Number	Percentage (%)
2014-15	36	04	08	66	24	100

13. Student-Teacher Ratio (programme wise):

Level	Class	Student-Teacher Ratio
First Year	Media and Communication and Digital Arts and Animation	27:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Number of Support Staff (Lab. Assistant and Lab. Attendant)	
Sanctioned	Filled
02	02

15. Qualification of teaching faculty with D.Sc./D.Litt./Ph.D./M.Phil./PG:

Name of Faculty	Qualification
Dr. Ramaa Golwalkar	B.Com., LL.B., B.M.C., M.M.C., NET 2000, M.A. (Indology), Diploma in Commonwealth Youth Development Program, FAC (FTII & NFAC) Ph.D.
Shri. Rajeev Ghode	B.C.S. and M.C.S. (Computer Science), M.Cm.S. (Media Research), NET 2010 M.A. in Distance Education

Shri. Swapnil Kamble	B.A. (Economics) M.Sc. (Communication Studies), NET 2011 M.Phil. (Media and Cultural Studies)
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16. Number of faculty with ongoing projects from a) National
b) International funding agencies and grants received: Nil
17. Departmental Projects funded by DST-FIST; UGC, DBT, ICSSR, etc.
and total grants received: Nil
18. Research Centre/facility recognized by the University: Nil

19. Publications:

Name of Faculty	Papers		Books	Total Publications	Impact Factor	Total Citation	h-Index
	International	Proceedings	Book Articles				
Dr. Ramaa Golwalkar	-	1	1	2	-	-	-
Shri. Rajeev Ghode	4	2	2	8	8.83	2	2
Total	4	3	3	10	8.83	2	2

20. Areas of Consultancy and Income generated: Nil
21. Faculty as members in a) National Committees b) International
Committees c) Editorial Board: Nil
22. Student projects:
a) Percentage of students who have done in-house projects
including inter departmental programme: Nil
b) Percentage of students placed for projects in organizations
outside the institution i.e. in Research laboratories/
Industry/other agencies: Nil
23. Awards/Recognitions received by faculty and students: Nil
24. List of eminent academicians and scientists/visitors to the
department: Nil
25. Seminars/ Conferences/Workshops organized & the source of funding:
Nil

26. Student profile programme/course wise: Undergraduate

Academic Year	Name of the Course /programme	Applications received	Selected	Enrolled		Pass percentage (%)
				M	F	
2014-2015	B.Voc. Media and Communication	123	51	27	24	NA
2014-2015	B.Voc. Digital Art and Animation	33	32	17	15	NA

27. Diversity of Students: Undergraduate:

Academic Year	Name of the Course/Programme	% of students from same state	% of students from other	% of students from abroad
2014-2015	B.Voc Media and Communication	88	10	2
2014-2015	B.Voc Digital Art and Animation	84	16	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.?: Nil

29. Student progression:

Student progression	Against % enrolled
UG to PG	NIL
PG to M.Phil.	NIL
PG to Ph.D.	NIL
Ph.D. to Post-Doctoral	NIL
Employed	NIL
<ul style="list-style-type: none"> • Campus selection • Other than campus recruitment 	
Entrepreneurship/Self-employment	NIL

30. Details of Infrastructural facilities

- Internet facilities for Staff & Students:
Computers with Internet - 30
- Classrooms/Laboratories with ICT facility – 03 (Classrooms); 02 (Laboratories)
- Laboratories:
 - i. 2D animation laboratories with 30 Light Box
 - ii. Computer laboratories with one punching machine – 30 computers

31. Number of students receiving financial assistance from college, university, Government or other agencies: Nil

32. Details on student enrichment programmes (special lectures/workshops/Seminar) with external experts:

Title/Type of Programme	Names of Resource Person(s) (External)
Workshop on 'Human Communication'	Dr. Ramaa Golwalkar
Industrial Visit	Shri. Pankaj Salunkhe
Remedial Lecture series (Introduction to Media, Introduction to Communication, Computer Graphics)	Shri. Rajiv Ghode
Remedial Lecture series (Introduction to Communication)	Shri. Swapnil Kamble
Remedial Lecture series (Introduction to Photography)	Shri. Vivek Athani
Remedial Lecture series (Introduction to Journalism & PR)	Ms. Sneha Gore

33. Teaching methods adopted to improve student learning:
 - Role-Play
 - In Class Assignments
 - Improvisation
 - Power Point Presentation
 - Audio Visual Aids
34. Participation in Institutional Social Responsibility (ISR) and Extension activities: Nil
35. SWOC analysis of the department and Future plans:

Strengths:	
1.	First of its kind undergraduate programme in media and communication
2.	The programmes are designed to strike the perfect balance between the theory and skill development components
3.	Skill training for industry ready manpower with optimum employability and self employment quotient
4.	Visiting faculty from media industry, media academia viz. FTII and SP Pune University
5.	Situated in rapidly developing city with major media houses
6.	Two different courses viz. Media communication and Digital Art & Animation to tap the proposed growth of media and entertainment industry
Weaknesses:	
1.	The Centre is in the nascent stage
Opportunities:	
1.	Ever growing media and entertainment industry with fast paced changing technology
2.	The entertainment industry dynamics need influx of young energetic, hard working youth with creative and innovative ideas
3.	Train the students as an industry ready human resource for different verticals of media and entertainment industry
4.	This centre can also render its services to the government and private sector for media related projects and consultancy
Challenges:	
1.	Competition with other private institutions conducting either autonomous or deemed to be university courses on media and communication in and around Pune

Future Plans

- Increasing existence on social media and mobile media
- Publishing Journals on media disciplines
- Conducting National and International Media Seminars
- Community Radio Operations and productions
- To start Film club for the Fergusson Campus and Annual National Short Film Festival to conduct various workshops by eminent media professionals
- To start Annual Media Festival for the students of the centre
- Involvement in social and rural development media tools with the media experts.
- To start masters courses in Media and Communication with different specialisations.



1. Name of the Department: **Biotechnology**
2. Year of Establishment: Undergraduate - 2005
Postgraduate - 2007
3. Names of Programmes/Courses offered: B.Sc., M.Sc.
4. Names of Interdisciplinary Courses and department/units involved:
Coordination of:
 - Vocational Biotechnology
 - Clinical Microbiology course in collaboration with Glasgow Caledonian University, UK and Deccan Education Society
 - Food Analysis course in collaboration with National Agriculture and Food Analysis and Research Institute, Pune
 - Diploma in Clinical Research Management
5. Annual/Semester/Choice based Credit system (programme wise): B.Sc. (F.Y.) – Annual, B.Sc. (S.Y. and T.Y.) – Semester
M.Sc. – CBCS
6. Participation of the department in the courses offered by other departments:

Title of Course	Topic(s)	Names of Teachers
M.Sc. Environmental Science	Project	Dr. Sonali Joshi
M.Sc. Botany	Project	
M.Sc. Botany	Industrial Botany	
M.Sc. Microbiology	Practical PCR, RT PCR, Animal Tissue Culture	Dr. Dhanashri Godbole
M.Sc. Botany	Molecular Biology/ Genetic Engineering	
IBB, SPPU, Pune	Genetics Theory	
M.Sc. Microbiology Vocational	Plant tissue culture	Dr. Manisha Dharmadhikari
Biotechnology	Plant tissue culture	
M.Sc. Microbiology	Virology Practical	Dr. Shampa Chakraborti
Vocational Biotechnology	Entrepreneurship, Statistics, Bioinformatics	Smt. Nandini Kotharkar
Vocational Biotechnology	Mathematics, Statistics	Ms. Prachi Pasalkar

7. Courses in collaboration with other Universities, Industries, Foreign Institutions, etc.:

Title of the Course	Name of University/ Industry/Foreign University
M.Sc. in Clinical Microbiology	Glasgow Caledonian University, UK
Diploma in Food Analyst	National Agriculture and Food Analysis and Research Institute, Pune
Diploma in Clinical Research Management	Deccan Education Society, Pune.

8. Details of courses/programmes discontinued (if any) with reasons: Nil

9. Number of Teaching posts:

Undergraduate/Postgraduate	Sanctioned	Filled
Assistant Professors	15	03
Assistant Professors (Temporary)	-	12

10. Faculty profile:

Name	Qualification	Designation	Specialization	Experience (Years)
Dr. Sonali Joshi	M.Sc., Ph.D.	Assistant Professor	Microbiology and Microbial Biotechnology	17
Dr. Dhanashri Godbole	M.Sc., Ph.D.	Assistant Professor	Molecular and Cell Biology, Animal Tissue Culture	08
Dr. Shampa Chakraborti	M.Sc., Ph.D.	Assistant Professor	Reproductive Biology and Virology	17
Dr. Manisha Dharmadhikari	M.Sc., Ph.D.	Assistant Professor	Botany (Mycology and Lichenology)	10
Ms. Ketaki Bhate	M.Sc.	Assistant Professor	Biotechnology	04
Smt. Monika Joshi	M.Sc.	Assistant Professor	Biotechnology	03
Ms. Prachi Pasalkar	M.Sc.	Assistant Professor	Physics	05
Smt. Nandini Kotharkar	M.Sc., M.B.A.	Assistant Professor	Bioinformatics	07
Shri. Ravindra Patake	M.Sc., M.Tech.	Assistant Professor	Computational and Systems Biology	03
Dr. Tejas Borwankar	M.Sc., Ph.D.	Assistant Professor	Molecular Biology and Biochemistry	02
Dr. Sanket Tembe	M.Sc., Ph.D.	Assistant Professor	Biochemistry	01
Smt. Kusum Rawat	M.Sc., M.Phil.	Assistant Professor	Microbiology	07
Dr. Girish Pathade	M. Sc., M.Phil., Ph.D.	Former Head and Associate Professor (Joined as Principal, H.V. Desai College, Pune on 17/08/2015)	Microbiology and Environmental Science	33
Smt. Shilpa Rao	M.Sc.	Assistant Professor	Biotechnology	01
Dr. Seema Sambrani	M.Sc., Ph.D.	Assistant Professor	Microbiology	12
Smt. Anuradha Dandekar	M.A., M.Phil.	Assistant Professor	English	05

11. List of Senior Visiting Faculty:

Name	Institution / Organisation
Dr. Pratibha Padhye	Former Professor, Department of Chemistry, Wadia College, Pune
Dr. Rekha Deshpande	Associate Professor, Department of Mathematics, Garware College, Pune
Smt. Vaishali Deshpande	Specialist in Clinical Research

12. Percentage of Lectures delivered and practical classes handled (programme wise) by temporary faculty: Undergraduate

Year	Total Workload of Department	Total Workload of Permanent Faculty	Lectures delivered by Temporary Faculty		Practical Classes Handled by Temporary Faculty	
			Number	Percentage (%)	Number	Percentage (%)
2010-2011	290	80	178	61	32	20
2011-2012	290	80	178	61	32	20
2012-2013	290	80	178	61	32	20
2013-2014	298	94	112	52	102	50
2014-2015	320	80	120	75	120	75

Postgraduate

Year	Total Workload of Department	Total Workload of Permanent Faculty	Lectures delivered by Temporary Faculty		Practical Classes Handled by Temporary Faculty	
			Number	Percentage %	Number	Percentage %
2010-2011	292	114	178	61	32	20
2011-2012	292	114	178	61	32	20
2012-2013	292	114	178	61	32	20
2013-2014	217	112	112	51.5	102	49.5
2014-2015	180	45	67	37	67	37

13. Student-Teacher Ratio (programme wise):

Level	Class	Number of Teachers	Student-Teacher Ratio
Undergraduate	B.Sc. Students Strength (F.Y. + S.Y. + T.Y.)	8	135/8 = 16:1
	(47 + 42 + 46) = 135		
Postgraduate	M.Sc. Students Strength (Part-I + Part-II)	4	48/4 = 12:1
	48		

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Number of Support Staff (Lab Assistant and Lab Attendant)		
	Sanctioned	Filled
Lab Assistants	02	02
Lab Attendants	04	04

15. Qualification of teaching faculty with D.Sc./D.Litt./Ph.D./M.Phil./PG: PG – 06; M.Phil. – 02; Ph.D. - 07

16. Number of faculty with ongoing projects from a) National
b) International funding agencies and grants received: Nil

17. Departmental Projects funded by DST-FIST; UGC, DBT, ICSSR, etc.,
and total grants received:

Title of Project	Funding from DST-FIST/UGC XI Plan, XII Plan, DBT, Any Other	Grant Received (Rs.)
Funding for infrastructural improvement	DST-FIST	5,00,000/-
DBT - STAR College Scheme	DBT	7,00,000/-
Poster – Future Role of Science and Biotechnology Metabolic Pathways	UGC-CPE (2011 - 2012) UG	1,717/-
Model making - DNA Double Helix		2,700/-
Scientific study of beneficial effects of Agnihotra Ash on Bacteria	UGC-CPE (2011 - 2012) PG	5,000/-
Skin disease of Animal and Human plant growth and neutralization of Genotoxicity		10,000/-
Isolation and characterization of Essential oils and pigments from different plants		9,300/-
E-content – Intellectual Property Right		5,000/-
Charts – Applications of Biotechnology	UGC-CPE (2013 – 2014) UG	5,000
Isolation and Screening of Industrially Important Extremozymes from soil micro-organism	UGC-CPE (2014-2015) UG	5,000/-
Isolation and Purification Cellulase from Soil Fungi using Lignocellulosic waste		5,000/-
Poster – Cyanobacteria: A Candidate of Potentially important Metabolites		5,000/-
Poster – Molecular Phylogeny of Angiosperm referring Rubisco sequence evolution		3,000/-
3D model of G-protein coupled receptor		5,000/-
To study the effect of pesticides, herbicides, insecticides and food adulterants on development of chick embryo	UGC-CPE (2014-2015) PG	20,000/-
Screening of antioxidant potential of plant sources for studying prevention of DNA damage		20,000/-

18. Research Centre/facility recognized by the University: Nil

19. Publications:

Name of Faculty	Papers			Patents			Impact Factor	Total Citation	h-Index	SNIP	SJR
	Inter -national	National	Proceedings	Inter -national	National	Total Publications					
Dr. Girish Pathade	10	3	-	-	2	15	4.75	46	3	3	3
Dr. Sonali Joshi	2	-	-	-		2	2.60	7	1	2	2

Dr. Dhanashri Godbole	-	1	-	1	1	3	0.39	27	3	2	2
Shri. Ravindra Patake	1	-	-	-	-	1	-	-	-	-	-
Smt. Nandini Kotharkar	2	-	-	-	-	2	1.46	6	1	1	1
Dr. Shampa Chakraborti	2	-	-	-	-	2	-	-	-	-	-
Dr. Manisha Dharmadhikari	1	1	-	-	-	2	-	-	-	-	-
Dr. Seema Sambrani	1	1	1	-	-	3	0.8	-	-	-	-
Total	19	6	1	1	3	30	10.01	86	8	8	8

20. Areas of Consultancy and Income generated:

Nature of Consultancy	Name of the Industry/ NGO/ Institute or any Other	Income generated, if any (Rs.)
Analysis of water samples from river lakes and borewells	New Ajantha Avenue Housing Society, Pune	5,000/-
Analysis of water samples from river Lakes and borewells	Solapur Municipal Corporation, Solapur	5,000/-
Biodegradability of Geomesh samples	Shri. Katdare, Professor and Research Student, D. Y. Patil College of Engineering, Pune	5,000/-

21. Faculty as members in: a) National Committees b) International Committees c) Editorial Board

Name of Faculty Members	National Committee/ International Committee/ Editorial Board	Any other Committee/Board
Dr. Sonali Joshi -	-	Member, Board of Studies, Microbiology, North Maharashtra University, Jalgaon

22. Student projects:

a) Percentage of students who have done in-house projects including inter departmental/programme:

Academic Year	Number of In-House Projects (UGC-CPE, UGC-BSR and PG Projects)	% of students involved against number of students enrolled for class
2010-2011	UG - 45, PG - 16	UG - 100%, PG - 70%
2011-2012	UG - 45, PG - 18	UG - 100%, PG - 75%
2012-2013	UG - 45, PG - 16	UG - 100%, PG - 70%
2013-2014	UG - 45, PG - 20	UG - 100%, PG - 85%
2014-2015	UG - 45, PG - 12	UG - 100%, PG - 50%

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/ Industry/ other agencies:

Academic Year	Number of outside Projects (Research Labs, Industry, NGO's etc.,)	% of students involved against number of students enrolled for class
2010-2011	05	20
2011-2012	05	20
2012-2013	05	20
2013-2014	05	20
2014-2015	12	50

23. Awards/Recognitions received by faculty and students:

Title of Award/Recognition	Name of Faculty/ Student	Year
'BCUD Avishkar' – Second Prize	Nirakar Basnet Kshiti Phulphagar	2010 - 2011
Bharat Shiksha Ratan Award	Dr. Girish Pathade	2012 - 2013
Ratan Tata Memorial Trust Scholarship	Shreya Ahuja Komal Shamnani	2013 - 2014
University Topper, SPPU-Pune	Komal Sankaran	2013 - 2014
Ratan Tata Memorial Trust Scholarship	Shruti Kulkarni, Mariam Faizalbhoj, Dollwin Matharu and Ankita Gupta	2014 - 2015
Firodia Karandak and Dandekar Karandak	Tanmay Dharmadhikari, Pritam Salunkhe	2014 – 2015

24. List of eminent academicians & scientists/visitors to the dept.:

- Knut Duesugd, Vice Rector and Professor Elin H. Kure, Norway
- Veronica James, Vice Chancellor, Glasgow Caledonian University, United Kingdom
- Amid Ansari, T. K. Reddy, Mr. Sairam from Penn State University, US
- Dr. Anil Kulkarni, University of Texas, Houston, US
- Professor L. Sashidhara, IISER, Pune
- Dr. Hemant V. Ghate, Modern College, Pune.

25. Seminars/Conferences/Workshops organized & the source of funding:

Year	Title of Seminar/Conference/Workshop	Funding Agency
2010-2011	Quality Assurance and Quality Control	Deccan Education Society
2011-2012	Industry Academia Summit	Deccan Education Society
2012-2013	Vedic Science Conference	DES and Pradhya Vikas Shikshan Sanstha
2013-2014	Vedic Science Conference	DES and Pradhya Vikas Shikshan Sanstha

26. Student Profile programme/course wise: Undergraduate

Academic Year	Applications received	Selected	Enrolled		Pass percentage (%)
			M	F	
2010-2011	700	50	11	39	85
2011-2012	620	50	13	37	90
2012-2013	550	50	9	41	83
2013-2014	384	46	10	36	84
2014-2015	437	48	11	37	Results awaited

Postgraduate

Academic Year	Applications received	Selected	Enrolled		Pass percentage (%)
			M	F	
2010-2011	590	24	06	18	97
2011-2012	560	24	05	19	89
2012-2013	490	24	05	18	92
2013-2014	218	24	03	21	100
2014-2015	204	24	06	18	Results awaited

27. Diversity of Students: Undergraduate

Academic Year	% of students from same state	% of students from other states	% of students from abroad
2010-2011	81	2	17
2011-2012	87	2	11
2012-2013	89	4	7
2013-2014	89	6	4
2014-2015	83	6	10

Postgraduate

Academic Year	% of students from same state	% of students from other states	% of students from abroad
2010-2011	69	4	17
	84	-	16
2011-2012	89	4	7
	82	7	11
2012-2013	100	-	-
	92	-	8
2013-2014	92	8	-
	100	-	-
2014-2015	96	4	-
	100	-	-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.?: NET – 12, GATE – 16.

29. Student progression:

Student progression	Against % enrolled
UG to PG	100%
PG to M.Phil.	-
PG to Ph.D.	10%
Ph.D. to Post-Doctoral	-
Employed	13%
• Campus selection	
• Other than campus recruitment	
Entrepreneurship/Self-employment	

30. Details of Infrastructural facilities:

- Library (Departmental Library): Area – 194.5 sq.ft.; Number of Books – 1000; Number of Journals Subscribed - 12
- Internet facilities for Staff & Students:
Computers with Internet - 27
- Classrooms/Laboratories with ICT facility – Labs - 02; Seminar Hall - 01
- Laboratory – I - 850 sq.ft., II - 850 sq.ft., III - 850 sq.ft.; IV - Animal Tissue Culture - 450 sq.ft., Lab V - Plant Tissue Culture Laboratory – 450 sq.ft. and Lab VI - Computer Laboratory – 450 sq.ft.

31. Number of students receiving financial assistance from college, university, government or other agencies:

- DES – 03, Government – 23, Ratan Tata Scholarship – 14
- An average of 60% students get financial assistance from State Government agencies in the form of Scholarship/Freeship

32. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts:

Year	Title/Type of Programme	Names of Resource Person(s) (External)
2013-2014	Quality Assurance and Quality Control	Shri. Satpute (Serum Institute)
2013-2014	Lecture on, 'Opportunities in India and Abroad'	Dr. Shrinivas, Dr. Snehalata Kadam
2013-2014	'Opportunities in Biopharmaceuticals'	Dr. R. T. Sane, Khalsa College, Mumbai
2013-2014	Legal Aspects of Anti-ragging	Dr. Rohini Honap, Principal, Navalmal Firodia Law College, Pune
2014-2015	Panel Discussion on Entrepreneurship - New Horizon	Shri. Satish Banawat Shri. Siddharth Salunke Dr. Pravinkumar Phutane Dr. Sameer Chaudhary
2014-2015	Industry Academia Summit	Dr. Bhogle (Microbax Ltd. Hyderabad) Dr. Soni (Praj Industries)

33. Teaching methods adopted to improve student learning:

- Online Lectures (Virtual Classroom)
- Animations
- Group Discussion
- Open Book Test
- Seminars
- Home assignments

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

- Donation given to Paraplegic Home, Pune
- Blood Donation Camps
- Environmental Awareness program in NSS
- Cleanliness Drive Program on College campus as a contribution to Swaccha Bharat Abhiyan
- Screening of films by 'Lokayat, Pune' to create social awareness

35. SWOC analysis of the department and Future plans:

Strengths: <ol style="list-style-type: none">1. Students with better academic performance and well defined aspirations2. Wide range of expertise in the department3. Diversified academic exposure beyond narrow bounds of the university syllabus4. Well equipped laboratories
Weaknesses: <ol style="list-style-type: none">1. Limitations imposed by rigid course structure2. Department not recognized as research centre3. Lack of well defined space for conducting research activities and development of potential
Opportunities: <ol style="list-style-type: none">1. Increasing demand for quality, employment oriented programs2. Demand for modularized courses from different segments of society.3. Research activity can be further strengthened4. Overseas Collaboration and tie ups with industries
Challenges: <ol style="list-style-type: none">1. Industry Academia Collaboration2. Placements

Future Plans

- Strengthen Research infrastructure to promote research activities through funding from various agencies
- Tie ups with industries for Research and Consultancy



1. Name of the department: **Botany**
2. Year of Establishment: Undergraduate - 1970
Postgraduate - 2009
3. Names of Programmes/Courses offered: B.Sc., M.Sc. and Ph.D.
4. Names of Interdisciplinary courses and the departments/units involved: Nil
5. Annual/semester/choice based credit system (program wise):
B.Sc. (F.Y.) - Annual, B.Sc. (S.Y. and T.Y.) - Semester,
M.Sc. - CBCS
6. Participation of the department in the courses offered by other departments: Nil
7. Courses in collaboration with other universities, industries, foreign institutions, etc.: Nil
8. Details of courses/programs discontinued (if any) with reasons: Nil
9. Number of Teaching Posts:

Undergraduate	Sanctioned	Filled
Associate Professor	06	06
Assistant Professor	05	04

Post Graduate	Sanctioned	Filled
Assistant Professor	04	02

10. Faculty profile: Undergraduate:

Name	Qualification	Designation	Specialization	Experience (Years)	No. of Ph.D.s guided
Smt. Sunanda Kate	M.Sc.	Associate Professor	Mycology	24	-
Shri.Kishor Kharat	M.Sc.	Associate Professor	Palaeobotany	24	-
Dr. Anil More	M.Sc., B.Ed., Ph.D.	Associate Professor	Genetics and Plant breeding	23	03 (Awarded) 04 (Ongoing)
Dr. Shankar Laware	M.Sc., Ph.D.	Associate Professor	Genetics and Plant breeding	23	06 (Awarded) 01 (Ongoing)
Dr. Bharat Shinde	M.Sc., Ph.D.	Associate Professor	Mycology	24	08 (Awarded) 08 (Ongoing)
Dr. Minakshi Mahajan	M.Sc., Ph.D.	Associate Professor	Mycology	24	02 (Awarded)
Dr. Jogita Pandkar	M.Sc., Ph.D.	Assistant Professor	Phycology	09	-

Ms. Swarupa Chowdhury	M.Sc.	Assistant Professor	Plant Biotechnology	09	-
Dr. Rupali Seth	M.Sc., Ph.D.	Assistant Professor	Plant Biotechnology	09	-
Smt. Vaishali Thakur	M.Sc., B.Ed., M.Phil.	Assistant Professor	Mycology	09	-

Postgraduate:

Name	Qualification	Designation	Specialization	Experience (Years)
Smt. Bhagyashri Somani	M.Sc.	Assistant Professor	Plant Biotechnology	06
Dr. Ketaki Vaidya	M.Sc., Ph.D.	Assistant Professor	Phycology	04

11. List of Senior Visiting Faculty:

Name of Visiting Faculty	Institution/Organization
Dr. Dadabhau Shirke	Former Associate Professor, SPPU, Pune
Dr. Kondiram Dumal	Former Professor, SPPU, Pune and Principal Sancheti College, Pimpri Chinchwad
Dr. Lizzie Nair	Former Professor, Department of Botany, SPPU, Pune
Dr. Nutan Malpathak	Professor, Department of Botany, SPPU, Pune
Dr. Ganesh Chinchankar	Former Professor, Department of Botany, SPPU, Pune
Dr. Vyankatesh Gunale	Former Professor and Head, Department of Botany, SPPU, Pune
Dr. Mahesh Shindikar	Assistant Professor, COEP, Pune
Dr. Vijay Ranade	Former Associate Professor, Abasaheb Garware College, Pune
Dr. Neeta Ghayal	Assistant Professor, Abasaheb Garware College, Pune
Dr. Rahul Mungikar	Assistant Professor, Modern College, Ganeshkind
Dr. Ravindra Gandhe	Former Associate Professor Modern College, Shivaji Nagar
Dr. Anil Dusane	Associate Professor, Department of Botany, S.P. College, Pune
Dr. Anuradha Kulkarni	Associate Professor, Department of Botany, S.P. College, Pune
Dr. Manisha Modak	Assistant Professor, Department of Botany, S.P. College, Pune
Dr. Sangita Sathe	Assistant Professor, Modern College, Shivaji Nagar, Pune
Dr. Narayan Ghangaonkar	Assistant Professor, C.T. Bora College, Shirur

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:

Undergraduate:

Year	Total Workload of Department	Total Workload of Permanent Faculty
2010-2011	217	217
2011-2012	224	224
2012-2013	224	224
2013-2014	220	220
2014-2015	220	220

Postgraduate:

Year	Total Workload of Department	Total Workload of Permanent Faculty	Lectures delivered by Temporary Faculty		Practical Classes handled by Temporary Faculty	
			Number	Percentage (%)	Number	Percentage (%)
2010-2011	64	32	16	25	16	25
2011-2012	64	32	16	25	16	25
2012-2013	64	32	16	25	16	25
2013-2014	64	32	16	25	16	25
2014-2015	64	32	16	25	16	25

13. Student - Teacher Ratio (programme wise):

Level	Class	Number of Teachers	Student-Teacher Ratio
Undergraduate	B.Sc. Students Strength (F.Y./4 + S.Y./3 + T.Y./1)	10	161/10 = 16:1
	(300/4 + 200/3 + 20/1) = 161		
Postgraduate	M.Sc. Students Strength (Part-I + Part-II)	2	48/2 = 24:1
	48		

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Number of Support Staff (Lab Assistant and Lab Attendant)		
	Sanctioned	Filled
Lab Assistants	02	02
Lab Attendants	12	06

15. Qualifications of teaching faculty with D.Sc./D.Litt./Ph.D./M.Phil./PG: PG - 04; M.Phil. - 01; Ph.D. - 07

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: 03

Duration	Name of Faculty	Title of Project	Name of Funding Agency	Grant received (Rs.)	Status (Minor/Major)
2013-2015	Dr. Shankar Laware	Assessment of Arishtas (Fermented Biomedicines) for their Antioxidant potentials	BCUD - SPPU	2,00,000/-	Minor
2013-2015	Dr. Bharat Shinde	Fungus mediated synthesis of silver nanoparticles and their antimicrobial activities	BCUD - SPPU	2,20,000/-	Minor

2013-2015	Ms. Swarupa Chowdhury	Nanoprimer for increasing seed germination efficiency in soybean	UGC	3,40,000/-	Minor
2015-2017	Ms. Swarupa Chowdhury	Use of nanosized ZnO and Fe ₃ O ₄ particles for increasing seed germination efficiency in groundnut	BCUD -SPPU	2,40,000/-	Minor

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received: Nil

Title of Project	Funding from DST-FIST/ UGC XI Plan, XII Plan, DBT, Any Other	Grant Received (Rs.)
UGC-BSR-II Students Projects	UGC	30,000/-

18. Research Centre/facility recognized by the University:
Recognition by SPPU, Pune, Letter No. CA/1746 dated 29/02/2004

19. Publications:

Name of Faculty	Papers			Books			Total Publications	Total Impact Factor	Total Citation	h-Index	SNIP	SJR
	Inter-national	National	Proceedings	Inter-national	National	Book Articles						
Smt. Sunanda Kate	-	-	-	-	-	1	1	-	-	-	-	-
Dr. Anil More	17	-	2	-	4	-	23	11.09	16	2	-	-
Dr. Shankar Laware	22	3	4	4	2	-	38	20.42	68	5	4	4
Dr. Bharat Shinde	7	14	-	2	4	1	28	4.7	13	1	-	-
Dr. Minakshi Mahajan	9	-	-	8	-	-	17	4.26	-	-	1	1
Dr. Jogita Pandkar	5	2	1	-	-	-	8	11.36	7	1	1	1
Dr. Rupali Seth	1	-	3	-	-	-	4	2.01	-	-	-	-
Ms. Swarupa Chowdhury	1	-	2	-	-	-	3	2.01	-	-	-	-
Total	62	19	12	14	10	2	122	55.85	104	9	6	6

- Number of Patents – 03 (Dr. Shankar Laware)

20. Areas of consultancy and income generated: Nil

21. Faculty as members in a) National committees b) International Committees c) Editorial Boards:

Name of Faculty Members	National Committee/ International Committee/Editorial Board	Any Other Committee/Board
Dr. Shankar Laware	Member of Editorial Committee –Journal of Environmental Science and Water Resource	(i) Member of Subcommittee - BOS in Botany (ii) Member of Subcommittee- BOS in voc. Biotechnology (iii) Team leader - Avishkar - 14 SPPU, Pune

Dr. Bharat Shinde	-	(i) Member of Subcommittee - BOS in Botany
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22. Student projects:

- a) Percentage of students who have done in-house projects including inter departmental/programme:

Academic Year	Number of In-House Projects (UGC-CPE, PG Projects)	% of students involved against number of students enrolled for class
2010-2011	PG - 12	PG - 57%
2011-2012	PG - 16	PG - 100%
2012-2013	PG - 13	PG - 68%
2013-2014	UG - 08, PG - 16	PG - 73%
2014-2015	UGC-BSR-II - 06, UG - 08, PG - 14	PG - 78%

- b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/other agencies:

Academic Year	Number of In-House Projects (Research Labs, Industry, NGO's etc.)	% of students involved against number of students enrolled for class
2010-2011	09	43%
2011-2012	-	-
2012-2013	06	32%
2013-2014	06	27%
2014-2015	04	22%

23. Awards/Recognitions received by faculty and students:

Title of Award/Recognition	Name of Faculty/Student	Year
Best Teacher Award by SPPU, Pune	Dr. Bharat Shinde	2011
Savitribai Phule Rashtriya Samman	Smt. Sunanda Kate	2013
Indian Patent No. 260402 - A culture medium composition	Dr. Shankar Laware	2014
Best Teacher Award by Uttar Bharatiya Sangh	Dr. Shankar Laware	2014
Avishkar Team Coordinator SPPU, Pune	Dr. Shankar Laware	2015

24. List of eminent academicians and scientists/visitors to the department:

- Col. Walia, Professor, Horticultural Institute Talegaon and Symbiosis Institute of Business Management, Pune
- Dr. C. Manoharachari, Osmania University, Hyderabad
- Dr. S. T. Tilak, Former Head, BAMU, Aurangabad.
- Dr. Suresh Shinde, Surgeon, Diabetic Institute, Pune
- Dr. Sujata Bhargava, Head, Department of Botany, SPPU, Pune
- Dr. Nutan Malpathak, Professor, Department of Botany, SPPU, Pune
- Dr. D. J. Bagyaraj, Former Professor, G. K. V. K. Agriculture University Bangalore, Karnataka
- Dr. S. K. Singh, Scientist, Agharkar Research Institute, Pune
- Dr. R. V. Gandhe, Scientist, Agharkar Research Institute, Pune
- Dr. Absar Ahmad, Scientist, NCL, Pune

- Dr. R.V. Deshpande, Scientist, NCL, Pune
- Dr. C. K. John, Scientist NCL, Pune
- Dr. S. R. Yadav, Head, Department of Botany, Shivaji University, Kolhapur.

25. Seminars/Conferences/Workshops organized & the source of funding: Nil

26. Student profile programme/course wise: Undergraduate:

Academic Year	Applications received	Selected	Enrolled		Pass percentage (%)
			M	F	
2010-2011	20	19	07	12	95
2011-2012	23	21	10	11	90
2012-2013	20	19	08	11	78
2013-2014	30	27	12	15	90
2014-2015	24	19	10	09	Results awaited

Postgraduate:

Academic Year	Applications received	Selected	Enrolled		Pass percentage (%)
			M	F	
2010-2011	40	16	03	13	94
2011-2012	36	18	06	12	89
2012-2013	42	18	08	10	86
2013-2014	45	24	07	17	88
2014-2015	40	24	08	16	Results awaited

27. Diversity of Students: Undergraduate:

Academic Year	% of students from the same state	% of students from other States	% of students from abroad
2010-2011	90	10	-
2011-2012	95	5	-
2012-2013	95	5	-
2013-2014	95	5	-
2014-2015	98	2	-

Postgraduate:

Academic Year	% of students from the same state	% of students from other States	% of students from abroad
2010-2011	82	12	6
2011-2012	75	25	-
2012-2013	75	25	-
2013-2014	73	27	-
2014-2015	79	21	-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.?: NET - 01, GATE - 02

29. Student progression:

Student progression	Against % enrolled
UG to PG	25%
PG to M.Phil.	20%
PG to Ph.D.	1%
Ph.D. to Post-Doctoral	-
Employed	
• Campus selection	-
• Other than campus recruitment	50%
Entrepreneurship/Self-employment	3%

30. Details of Infrastructural facilities:

- Library (Departmental Library): Number of Books - 275; Number of Journals subscribed - 05
- Internet facilities for Staff & Students: Computers with internet - 06
- Class rooms with ICT facility – 01
- Laboratories: Laboratory - I 1600 sq.ft.; Laboratory - II 480 sq.ft.; Laboratory – III 480 sq.ft.; Laboratory – IV (Research) 480 sq.ft.; Laboratory - V (Plant Tissue Culture) 240 sq.ft.

31. Number of students receiving financial assistance from college, university, Government or other agencies:

Academic Year	Number of Students	Financial Assistance from College/ University/Government/Others
2010-2011	02	Fergusson College (Poor Students Fund)
2012-2013	04	Department
2013-2014	02	Department

- An average of 60% students get financial assistance from Central/ State Government agencies in the form of Scholarship/Freeship

32. Details on student enrichment programme (special lectures/ workshops/seminar) with external experts:

Academic Year	Title/Type of Programme	Names of Resource Person(s) (External)
2010-2011	Prospects of Botany, Microbial world and human being	Col. Walia, Horticultural Institute Talegaon, Symbiosis Institute of Business management, Pune Dr. C. Manoharachari, Osmania University, Hyderabad
2012-2013	One day seminar on 'Recent trends in Mycology and Plant Pathology' One day seminar on 'Concepts in Biotechnology'	Dr. Absar Ahmad, Scientist, NCL, Pune
2013-2014	Lecture Series	Dr. C. K. John, Scientist, NCL Dr. S. R. Yadav, Head, Department of Botany, Shivaji University, Kolhapur

33. Teaching methods adopted to improve student learning:
- Conventional teaching with reasonable use of ICT, Charts, Slides, Models and plant Material
 - Field based studies with special reference to Biodiversity
 - Group discussions
 - Seminars
 - Open Book Tests and Surprise Tests
34. Participation in Institutional Social Responsibility (ISR) and Extension activities:
- Special lectures at NSS Camps on Flora study
 - Participation of students in 'Shrusthi' and 'Nirbhay Kanya Abhiyan'.
35. SWOC analysis of the department and Future plans:

Strengths: <ol style="list-style-type: none">1. Recognized Research Centre which has varied areas of research2. 19 Students have successfully completed their Ph.D.3. Global Herbarium collection since 1902 which is used for reference
Weaknesses: <ol style="list-style-type: none">1. Need for additional laboratory for Instrumentation/Research
Opportunities: <ol style="list-style-type: none">1. Collaboration with premier institutes like Botanical Survey of India, Agharkar Research Institute etc.2. Promote Consultancy in special areas like Taxonomy
Challenges: <ol style="list-style-type: none">1. Efforts to be made for Interdisciplinary Research

Future Plans

- To develop medicinal plants and Nakshatra Garden
- Develop short term programs on Mushroom Cultivation and Landscape designing.



- Name of the Department: **Chemistry**
- Year of Establishment: Undergraduate – 1894
Postgraduate:
Organic Chemistry - 1994
Biochemistry - 2006
Analytical chemistry - 2006
- Names of Programmes/Courses offered: B.Sc., M.Sc. (Organic, Analytical, Biochemistry) and Ph.D.
- Names of Interdisciplinary Courses and department/units involved: Nil
- Annual/Semester/Choice based Credit system (programme wise):
B.Sc. (FY) – Annual, B.Sc. (SY and TY) – Semester, M.Sc. - CBCS
- Participation of the department in the courses offered by other departments:

Title of Course	Topic(s)	Names of Teachers
M.Sc. Botany	Biochemistry	Dr. Meenakshi Suresh Dr. Kiran Fulzele
Bachelor of Physiotherapy	Biochemistry	Dr. Meenakshi Suresh Dr. Kiran Fulzele
B.Sc. Biotechnology	Chemistry Practical	Shri. Kishore Patil Shri. Raju Murkute Smt Ujjwala Gaware
B.Sc. Voc. Biotechnology	Biochemistry	Dr. Meenakshi Suresh Shri. Nitin Ganjave

- Courses in collaboration with other Universities, Industries, Foreign Institutions, etc.: Nil
- Details of courses/programmes discontinued (if any) with reasons: Nil
- Number of Teaching Posts:

Undergraduate	Sanctioned	Filled
Associate Professors	05	05
Assistant Professors	17	12
Assistant Professors (Temporary)	-	02
Assistant Professors (FIP)	-	03

Postgraduate	Sanctioned	Filled
Assistant Professors (Temporary)	16	16

- Faculty profile: Undergraduate

Name	Qualification	Designation	Specialization	Experience (Years)
Shri. Shridhar Vhankate	M. Sc., D.H.E	Head and Associate Professor	Physical Chemistry	24
Dr. Bayaji Hake	M.Sc., Ph.D., D.H.E	Associate Professor	Physical Chemistry	23

Dr. Vijay Tadke	M.Sc., Ph. D.	Associate Professor	Inorganic Chemistry	23
Dr. Rajendra. Konedeshmukh	M.Sc., Ph. D.	Associate Professor	Organic Chemistry	25
Shri. Kishor Patil	M.Sc., B.Ed.	Assistant Professor	Organic Chemistry	11
Shri. Shankar Pawar	M.Sc., M.Phil., D.H.E	Assistant Professor	Physical Chemistry	10
Shri. Narayan Firke	M.Sc.	Assistant Professor	Organic Chemistry	09
Shri. Sushilkumar Dhanmane	M.Sc.	Assistant Professor	Organic Chemistry	10
Dr. Meenakshi Suresh	M.Sc., Ph.D.	Assistant Professor	Biochemistry	20
Smt. Ujwala Patil	M.Sc., M.Phil.	Assistant Professor	Physical Chemistry	12
Dr. Tanaji Kadam	M.Sc, M.Phil. Ph.D.	Associate Professor	Inorganic Chemistry	33
Shri. Anil Markandeya	M.Sc.	Assistant Professor	Physical Chemistry	21
Dr. Parbati Bandyopadhyay	M.Sc., Ph.D.	Assistant Professor	Inorganic Chemistry	08
Smt. Jatinder Kaur	M.Sc.	Assistant Professor	Organic Chemistry	10
Shri. Nitin Ganjve	M.Sc.	Assistant Professor	Organic Chemistry	12
Shri. Raju Murkute	M.Sc.	Assistant Professor	Inorganic Chemistry	06
Smt. Ujjwala Gaware	M.Sc.	Assistant Professor	Analytical Chemistry	05
Dr. Anupama Nevrekar (FIP)	M.Sc., Ph.D.	Assistant Professor	Inorganic Chemistry	02
Shri. Aniruddha Kulkarni (FIP)	M.Sc.	Assistant Professor	Physical Chemistry	02
Shri. Kuldeep Padiyar (FIP)	M.Sc.	Assistant Professor	Organic Chemistry	03
Dr. Khusboo Vadera	M.Sc., Ph.D.	Assistant Professor	General Chemistry	02
Dr. Seema Badi	M.Sc., Ph.D.	Assistant Professor	Physical Chemistry	01

Postgraduate

Name	Qualification	Designation	Specialization	Experience (Years)
Smt. Archana Rathod	M.Sc., M.Phil.	Assistant Professor	Analytical Chemistry	08
Smt. Anuradha Wagh	M.Sc.	Assistant Professor	Organic Chemistry	09
Shri. Ganesh Sutar	M.Sc.	Assistant Professor	Physical Chemistry	05
Smt. Gauri Shelar	M.Sc., M.Phil.	Assistant Professor	Physical Chemistry	04
Dr. Kiran Fulzele	M.Sc., Ph.D.	Assistant Professor	Biochemistry	06
Smt. Nita Dhavale	M.Sc.	Assistant Professor	Analytical Chemistry	06

Smt. Nilam Patil	M.Sc.	Assistant Professor	Analytical Chemistry	04
Dr Poonam Deshpande	M.Sc., Ph.D.	Assistant Professor	Biochemistry	02
Smt. Kirti Chintamani	M.Sc., B.Ed.	Assistant Professor	Biochemistry	05
Dr. Sonalika Pawar	M.Sc., B. Ed., Ph.D.	Assistant Professor	Organic Chemistry	03
Dr. Rohitkumar Gore	M.Sc., Ph.D.	Assistant Professor	Organic Chemistry	03
Dr. Abhijit Papalkar	M.Sc., Ph.D.	Assistant Professor	Organic Chemistry	03
Dr. Samir Onkar	M.Sc., Ph.D.	Assistant Professor	Physical Chemistry	08
Smt. Nita Karale	M.Sc., M.Phil.	Assistant Professor	Inorganic Chemistry	06
Shri. Sudarshan Tapsale	M.Sc., B.Ed.	Assistant Professor	Organic Chemistry	03
Ms .Gayatri Kulkarni	M.Sc., M.Phil.	Assistant Professor	Biochemistry	02

11. List of Senior Visiting Faculty: Nil

12. Percentage of Lectures delivered and practical classes handled (programme wise) by temporary faculty: Undergraduate

Year	Total Workload of Department	Total Workload of Permanent Faculty	Lectures delivered by Temporary Faculty		Practical Classes handled by Temporary Faculty	
			Number	Percentage (%)	Number	Percentage (%)
2010-2011	308	308	-	-	-	-
2011-2012	335	335	-	-	-	-
2012-2013	413	365	-	-	48	12
2013-2014	443	395	-	-	48	11
2014-2015	431	385	06	01	40	09

Postgraduate

Year	Total Workload of Department	Total Workload of Permanent Faculty	Lectures delivered by Temporary Faculty		Practical Classes handled by Temporary Faculty	
			Number	Percentage (%)	Number	Percentage (%)
2010-2011	687	571	217	31.5	-	-
2011-2012	644	564	80	12.5	-	-
2012-2013	627	560	67	11	-	-
2013-2014	685	665	9	6	11	7
2014-2015	607	607	4	5	-	-

13. Student-Teacher Ratio (programme wise):

Level	Class	Number of Teachers	Student-Teacher Ratio
Undergraduate	B.Sc. Students Strength (F.Y./4 + S.Y./3 + T.Y./1)	19	351/19 = 18:1
	(590/4 + 243/3 + 123/1) = 351		
Postgraduate	M.Sc. Students Strength (Part-I + Part-II)		
Organic Chemistry	93	7	93/7 = 13:1
Analytical Chemistry	49	5	49/5 = 10:1
Biochemistry	49	4	49/4 = 12:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Number of Support Staff (Lab Assistant and Lab Attendant)		
	Sanctioned	Filled
Lab Assistants	08	04
Lab Attendants	32	20

15. Qualification of teaching faculty with D.Sc./D.Litt./Ph.D./M.Phil./PG:
Undergraduate: PG - 11; M.Phil. - 02; Ph.D. – 09
Postgraduate: PG - 06; M.Phil. - 04; Ph.D. – 0616. Number of faculty with ongoing projects from a) National
b) International funding agencies and grants received: 03

Duration	Name of Faculty	Title of Project	Name of Funding Agency	Grant Received (Rs.)	Status (Minor/Major)
2012-2015	Dr. Parbati Bandyopadhyay and Dr. Rajendra Konedeshmukh	Synthesis, characterization, spectral and catalytic studies of transition metal complexes of some biologically important aroylhydrazone ligands	UGC	7,79,000/-	Major
2014-2016	Dr. Meenakshi Suresh	Biochemical studies on the effects of Sudarshan Kriya and Mudra pranayam on Human body	UGC	4,15,000/-	Minor
2013-2015	Smt. Jatinder Kaur	Synthesis of Nickel based bimetallic nanoparticles for C-C coupling	UGC	85,000/-	Minor
2015-2017	Smt. Jatinder Kaur	Design, synthesis and biological evaluation of novel hydrazone and their metal complexes as potential anticancer agents	BCUD-SPPU	2,20,000/-	Minor

17. Departmental Projects funded by DST-FIST; UGC, DBT, ICSSR, etc., and total grants received:

Title of Project	Funding from DST-FIST/ UGC XI Plan, XII Plan, DBT, Any Other	Grant received (Rs.)
DBT-Star College Scheme	DBT	7,00,000/-
UGC-BSR (05 Projects)	UGC-BSR-II	25,000/-
Synthesis of Biscoumarins	UGC- CPE (2013 – 2014)	10,000/-
Designing greener catalysts for selective protection of alcohols		10,000/-
Synthesis and biological activities of Cinnamyl Cinnamates		10,000/-
Models-Chart Making – 3D Periodic Table	UGC-CPE (2014 – 2015)	5,000/-
Development of synthetic methodology for selective protection of alcohols by using Bronsted acidic Ionic liquids		10,000/-
Green synthesis of silver nano particles using Ocimum Basilicum (Basil)		10,000/-
Determination of Benzopyrene from Indian Coffee samples by HPLC technique		10,000/-
Screening of various medicinal plants for their antibacterial antimicrobial & DNA damage protection activity		10,000/-
Phytochemical characterisation and Nutraceutical potential of some of the conventional and unconventional sources		10,000/-
Synthesis of crosslink graft copolymer for removal of heavy metal ions/Dye		10,000/-
Synthesis of Thiophene derivatives		10,000/-
Synthesis & characterisation of nanoparticles by different methods		10,000/-

18. Research Centre/facility recognized by the University: Recognition by SPPU, Pune – Letter No. CA/5608 dated 14/12/2010

19. Publications:

Name of Faculty	Papers			Books		Total Publications	Impact Factor	Total Citation	h-Index	SNIP	SJR
	Inter -national	National	Proceedings	Inter national	National						
Shri. Shridhar Vhankate	-	1	-	-	5	6	-	-	-	-	-
Dr. Rajendra KondeDeshmukh	-	-	-	-	4	4	-	-	-	-	-
Shri. Shankar Pawar	1	-	1	-	-	2	1.89	-	-	-	-
Shri. Narayan Firke	1	-	-	-	-	1	-	-	-	-	-
Shri. Sushil Dhanmane	2	-	-	-	-	2	8.71	6	1	1	1
Dr. Meenakshi Suresh	1	-	-	-	-	1	-	-	-	-	-

Smt. Ujwala Patil	2	-	-	-	-	2	4.07	-	-	-	-
Shri. Anil Markandeya	4	-	-	-	-	4	2.89	9	2	-	-
Dr. Parbati Bandopadhyay	1	-	-	-	-	1	2.06	5	1	1	1
Shri. Nitin Ganjave	-	2	-	-	-	2	1.29	-	-	2	2
Dr. Kiran Fulzele	-	1	-	-	-	1	1	-	-	-	-
Dr. Rohitkumar Gore	5	-	-	1	-	6	27.40	66	3	4	4
Smt. Gauri Shelar	1	-	-	-	1	2	0.85	5	1	1	1
Dr. Sonalika Pawar	2	-	-	-	-	2	7.67	12	2	2	2
Dr. Anupama Nevrekar (Kamat)	7	-	-	-	-	7	13.55	38	4	4	4
Dr. Poonam Deshpande	8	1	-	-	-	9	13.70	91	6	9	9
Total	35	5	1	1	10	52	85.11	232	20	24	24

20. Areas of Consultancy and Income generated: Nil

21. Faculty as members in a) National committees b) International Committees c) Editorial Board: Nil

22. Student projects:

a) Percentage of students who have done in-house projects including inter departmental programme:

Academic Year	Number of In-House Projects (UGC-CPE, UGC-BSR and PG Projects)	% of students involved against number of students enrolled for class
2010-2011	PG - 17	17%
2011-2012	PG - 24	24%
2012-2013	PG - 20	20%
2013-2014	PG - 12 UGC-CPE - 03	12%
2014-2015	PG - 29 UGC-BSR-II - 05, UGC-CPE - 12	29%

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies:

Academic Year	Number of outside Projects (Research Labs, Industry, NGO's etc.,)	% of students involved against number of students enrolled for class
2010-2011	06	6%
2011-2012	11	11%
2012-2013	16	16%
2013-2014	25	25%
2014-2015	16	16%

23. Awards/Recognitions received by faculty and students:

Title of Award/ Recognition	Name of Faculty/Student	Year
'Best teacher award' by Uttar Bharatiya Sangh, Pune Certificate of Appreciation by Brigadier Naresh Kumar	Shri. Shridhar Vhankate	2011
		2012
Group Commander, NCC Group HQ, Pune		2012
Dr. Babasaheb Ambedkar National Award		2013

Best Teacher Award from Babu Jagajivanram Sanskriti and Sahitya Academy, New Delhi	Dr. Vijay Tadke	2012
Best Teacher Award from Pune Municipal corporation	Dr. Bayaji Hake	2012
Peace through Community Service from Rotary Club, Pune, Hadapsar	Dr. Meenakshi Suresh	2012
Wesley Cocker Award, Society of Chemical Industry, Ireland, UK	Dr. Rohitkumar Gore	2014
University Topper SPPU, Pune - Gold Medal	Madhurima Das	2010
University Topper SPPU, Pune - Gold Medal	Madhuri Kshirsagar	2011
University Topper SPPU, Pune - Gold Medal	Vandana Pawar	2012
University Topper SPPU, Pune - Gold Medal	Neha Pai	2013
Dr. Arnikar Lecture Competition SPPU, Pune	Akshay Jaiswal	2013
Dr. Arnikar Lecture Competition SPPU, Pune	Asmita Nene	2014
T. R. Ingle Lecture Competition – Second Prize	Asmita Nene	2015
T. R. Ingle Poster Competition – Second Prize	Asmita Nene Rasika Hirve	2015
Lupin Scholarship Award	Dattatray Khamgal Kirti Thakur Gayatri Kasar Dhanashree Dhokale	2014
Lupin Scholarship Award	Yuvraj Satkar Pratibha Gaikwad Gauri Naik	2015

24. List of eminent academicians and scientists/visitors to the department:

- Dr. Suresh Iyer, Scientist, NCL, Pune
- Dr. D. G. Naik. Scientist, Agharkar Research Institute, Pune
- Dr. Arnab Bhattacharya, Scientist, TIFR, Mumbai
- Shri. Samar Bagchi, Former Director, BITM, Kolkata
- Dr. Aridam Rana, Associate Professor, City College, Kolkata
- Shri. Sanjeev Kulkarni, Former Professor, MITCON, Pune.

25. Seminars/Conferences/Workshops organized & the source of funding:

Year	Title of Seminar/ Conference/ Workshop	Funding Agency	Amount Sanctioned (Rs.)
2014-2015	National Conference – Advances in Chemical Sciences with Special Reference to Molecular Spectroscopy, Material Science and Organic Electronics (NCACS-2014)	UGC	1,50,000/-

26. Student profile programme/course wise: Undergraduate

Academic Year	Applications received	Selected	Enrolled		Pass percentage %
			M	F	
2010-2011	85	85	52	33	75
2011-2012	57	57	24	33	80
2012-2013	82	82	33	49	87
2013-2014	109	109	52	57	66
2014-2015	122	122	66	56	Results Awaited

Postgraduate

Academic Year	Applications received	Selected	Enrolled		Pass percentage %
			M	F	
2010-2011	659	102	53	49	70
2011-2012	423	98	52	46	53
2012-2013	439	102	47	55	43
2013-2014	778	104	72	32	61
2014-2015	420	89	58	31	Results Awaited

27. Diversity of Students: Undergraduate

Academic Year	% of students from same state	% of students from other states	% of students from abroad
2010-2011	92	8	-
2011-2012	92	6	2
2012-2013	86	12	2
2013-2014	93	7	-
2014-2015	90	10	-

Postgraduate

Academic Year	% of students from same state	% of students from other states	% of students from abroad
2010-2011	97	-	3
2011-2012	95	-	5
2012-2013	95	2	5
2013-2014	93	3	5
2014-2015	98	-	2

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? NET-16, GATE-01.

29. Student progression:

Student progression	Against % enrolled
UG to PG	65%
PG to M.Phil.	5%
PG to Ph.D.	25%
Ph.D.to Post-Doctoral	4%
Employed	
• Campus selection	25%
• Other than campus recruitment	50%
Entrepreneurship/Self-employment	5%

30. Details of Infrastructural facilities:

- Library (Departmental Library): Area – 144 sq.ft.; Number of Books – 4000; Number of Journals Subscribed - 07
- Internet facilities for Staff & Students: Computers with Internet - 11
- Classrooms with ICT facility – 03
- Laboratories:

Name of Laboratories	Area (sq.ft.)
Senior Laboratory	2860
Physical Laboratory-UG	560
Physical Laboratory-PG	1000
Organic Laboratory	1230
Inorganic Laboratory	645
Analytical Laboratory	496
Biochemistry Laboratory	948
Research Laboratory	511
Chemical Store Room	320
Balance Room	430
Computer Laboratory	218
Computer Room	208

31. Number of students receiving financial assistance from college, university, government or other agencies:

- An average of 60% students get financial assistance from Central/ State Government agencies in the form of Scholarship/Freeship

32. Details on student enrichment programmes (special lectures/ workshops/seminar) with external experts:

Year	Title/ Type of Programme	Names of Resource Person(s) (External)
2013	Effective communication	Shri. Sanjeev Kulkarni, MITCON, Pune
2014	Skill development program – Chromatographic techniques(HPLC)	Shri. Arvind Ketkar, Director , Unit of Bischoff Germany
2014	Soft skill development for M.Sc. students	Ms. Zenobia Merchant, Soft Skill Trainer

33. Teaching methods adopted to improve student learning:

- Interactive teaching methodology
- Classroom discussions
- Power point presentations
- Lab Demonstrations
- Seminars
- Assignments
- E-books
- Providing course materials
- Revision Practicals
- Chemistry Club

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

- Students of NCC participate along with Police Department to maintain discipline during Ganesh Festival in Pune
- Students participated in Swach Bharat Abhiyan.

35. SWOC analysis of the department and Future plans:

Strengths: <ol style="list-style-type: none">1. Separate Central Instrumentational and Computational facility for students.2. Departmental Library with Journals.3. Placements of UG and PG students.4. Teachers with varied specializations, which enhances Research in the Department.
Weaknesses: <ol style="list-style-type: none">1. Inadequate space in Staff rooms.2. Insufficient non-teaching staff.
Opportunities: <ol style="list-style-type: none">1. Encouragement for students to work in National laboratories.2. Alumni network to be strengthened, which will help in development of the department.
Challenges: <ol style="list-style-type: none">1. Identification of specific areas of research and develop infrastructure accordingly

Future plans

- Strengthen Research Linkages and develop significant Industrial Interface for training and Placement of Students
- Renovation of some laboratories to be carried out.



1. Name of the Department: **Computer Science**
2. Year of Establishment: Undergraduate – 1986,
Postgraduate (M.Sc.) - 1996,
Postgraduate (M.C.A.) - 2004
3. Names of Programmes/Courses offered: B.Sc., M.Sc. and M.C.A.
4. Names of Interdisciplinary Courses and department/units involved: M.Tech., Animation, B.Voc.
5. Annual/Semester/Choice based Credit system (programme wise):
 - B.Sc. (F.Y.) – Annual, B.Sc. (S.Y. and T.Y.) – Semester,
M.Sc. – CBCS, M.C.A. - CBCS
6. Participation of the department in the courses offered by other departments:

Title of Course	Topic(s)	Names of Teachers
M.Tech.	Fundamentals and Advanced Computer Science	Smt. Shubhangi Page, Smt. Shubhangi Thakar, Shri. Jeevan Limaye, Shri. Irfan Khatik, Smt. Anjali Naik, Smt. Kalyani Gaikwad, Smt. Deepali Dhainje, Smt. Swati Joglekar, Smt. Aparna Vaidyanathan
Animation Programme	Fundamentals and Advanced Computer Science	Smt. Swati Joglekar, Smt. Arati Nimgaonkar, Smt. Lochana Mahajan
Post Graduate Departments	Cyber Security	Smt. Aarti Nimgaonkar, Smt. Swati Satpute, Shri. Tushar Deshmukh, Smt. Lochana Mahajan, Smt. Sujata Sathe, Smt. Talluri Sree Lalitha, Smt. Kalyani Gaikwad
B.Voc.	Fundamentals in Computer Literacy	Smt. Rashmi Chaudhary

7. Courses in collaboration with other Universities, Industries, Foreign Institutions, etc.: Nil
8. Details of courses/programmes discontinued (if any) with reasons: Nil
9. Number of Teaching Posts:

Undergraduate/Post Graduate	Sanctioned	Filled
Associate Professors	30 (CS) (B.Sc. + M.Sc.),	05
Assistant Professors	06 (CS) (M.C.A.), 09 (Electronics), 06 (Mathematics), 04 (Statistics)	39

10. Faculty Profile:

Name	Qualification	Designation	Specialization	Experience (Years)
Smt. Swati Joglekar	M.Sc., M.Phil.	Associate Professor	Mathematics	25
Smt. Shubhangi Thakar	M.Sc.	Associate Professor	Statistics	24
Smt. Shubhangi Page	M.Sc.	Associate Professor	Computer Science	23
Shri. Manojkumar Kukade	M.Sc.	Associate Professor	Electronics	24
Dr. Kavita Khobragade	M.Sc., Ph.D.	Associate Professor	Computer Science	17
Smt. Deepali Dhainje	M.Sc., M.Phil.	Assistant Professor	Computer Science	16
Smt. Aparna Vaidyanathan	M.Sc., M.Phil.	Assistant Professor	Computer Science	15
Smt. Vedavati Pethe	M.Sc.	Assistant Professor	Mathematics	08
Shri. Irfan Khatik	M.Sc.	Assistant Professor	Computer Science	13
Smt. Archana Khadilkar	M.Sc.	Assistant Professor	Statistics	15
Smt. Prajakta Tatake	M.Sc.	Assistant Professor	Electronics	13
Smt. Kalpana Joshi	M.C.S.	Assistant Professor	Computer Science	11
Shri. Jeevan Limaye	M.C.S.	Assistant Professor	Computer Science	10
Smt. Kalyani Jadhav	M.Sc.	Assistant Professor	Mathematics	10
Smt. Anjali Naik	M.Sc.	Assistant Professor	Computer Science	15
Shri. Lakhichand Patil	M.Sc.	Assistant Professor	Computer Science	08
Shri. Vikas Chitte	M.Sc.	Assistant Professor	Computer Science	07
Smt. Rashmi Chaudhary	ADCSSAA	Assistant Professor	Computer Science	09

Smt. Madhavi Gambhire	M.Sc., B.Ed.	Assistant Professor	Electronics	12
Smt. Swapna Kulkarni	M.Sc.	Assistant Professor	Electronics	06
Smt. Neha Deshpande Kulkarni	M.C.A. (Science)	Assistant Professor	Computer Science	08
Smt. Kalyani Gaikwad	M.Sc., C-DAC	Assistant Professor	Computer Science	06
Smt. Sujata Ambekar	M.Sc.	Assistant Professor	Computer Science	08
Smt. Sujata Sathe	M.Sc. (Scientific Computing)	Assistant Professor	Computer Science	08
Smt. Talluri Sree Lalitha	M.C.A.	Assistant Professor	Computer Science	15
Smt. Smita Bhanap	M.Sc.	Assistant Professor	Computer Science	11
Smt. Lochana Mahajan	M.Sc.	Assistant Professor	Computer Science	07
Shri. Lalit Sonawane	M.Sc.	Assistant Professor	Computer Science	06
Shri. Bhupesh Taunk	M.Sc.	Assistant Professor	Computer Science	10
Smt. Rasika Kulkarni	M.Sc.	Assistant Professor	Computer Science	10
Ms. Pallavi Deshmukh	M.Sc.	Assistant Professor	Electronics	02
Smt. Arati Nimgaonkar	M.C.S., M.Phil.	Assistant Professor	Computer Science	12
Shri. Dhiraj Nage	M.C.A.	Assistant Professor	Computer Science	06
Shri. Tushar Deshmukh	M.Sc. (Comp. App.)	Assistant Professor	Computer Science	08
Smt. Swati Satpute	M.Sc.	Assistant Professor	Computer Science	13
Smt. Sonali Powar	M.Sc.	Assistant Professor	Computer Science	04
Ms. Priyanka Kalbhor	M.C.A.	Assistant Professor	Computer Science	04
Smt. Prajakta Gogate Gadre	M.Sc.	Assistant Professor	Computer Science	04

Ms. Sonali Kulkarni	M.Sc.	Assistant Professor	Computer Science	02
Ms. Sushma Hojage	M.Sc.	Assistant Professor	Mathematics	01
Shri. Yashwant Madake	M.Sc.	Assistant Professor	Mathematics	01
Ms. Trupti Bhosale	M.Sc.	Assistant Professor	Mathematics	0.5
Ms. Rucha Joshi	M.Sc.	Assistant Professor	Statistics	03
Ms. Priya Maini	M.Sc., M.Phil.	Assistant Professor	Mathematics	05

11. List of Senior Visiting Faculty:

Name	Institute/Organization
Shri. Sushant Gorade	Associate-projects, Cognizant Technology Solutions
Shri. Ashutosh Limaye	Senior subject matter expert, SEED Infotech
Shri. Jitendra Shirolkar	Software Developer , Quick Heal
Shri. Nikhil Kardale	Freelancer
Shri. Rohit Magdum	IOS Application Developer, ALOHA Tech
Shri. Sarjerao Patil	Software Developer, Symantec
Shri. Omkar Kulkarni	Senior Software Engineer, Symantec
Shri. Shrenik Vikam	Senior Software Engineer, Agreeya Mobility
Shri. Parag Tamhankar	Assistant Professor, Garware College, Pune
Shri. Pankaj Jagasia	Freelancer in Computer Training
Shri. Advait Deodhar	Lead Software Engineer, GS Lab
Smt. Pradnya Kashikar	Freelancer
Shri. Piyush Khairnar	Software Developer, Quick Heal
Shri. Makrand Patwardhan	Software Developer, Softonic Embedded Systems
Shri. Jeetendra Bhattad	Software Developer, Imagination Technology

12. Percentage of Lectures delivered and practical classes handled (programme wise) by temporary faculty:

Undergraduate - B.Sc.

Year	Total Workload of Department	Total Workload of Permanent Faculty	Lectures delivered by Temporary Faculty		Practical Classes handled by Temporary Faculty	
			Number	Percentage (%)	Number	Percentage (%)
2010-2011	678 (150L + 132P)	144 (48L+24P)	102	68	108	82
2011-2012	678 (150L + 132P)	144 (48L+24P)	102	68	108	82
2012-2013	678 (150L + 132P)	288 (72L+54P)	78	52	78	59
2013-2014	678 (150L + 132P)	288 (72L+54P)	78	52	78	59
2014-2015	678 (150L + 132P)	288 (72L+54P)	78	52	78	59

Postgraduate - M.Sc.

Year	Total Workload of Department	Total Workload of Permanent Faculty	Lectures delivered by Temporary Faculty		Practical Classes handled by Temporary Faculty	
			Number	Percentage (%)	Number	Percentage (%)
2010-2011	124 (64L + 20P)	17 (8L + 3P)	56	87.5	17	85
2011-2012	124 (64L + 20P)	34 (16L + 6P)	48	75	14	70
2012-2013	124 (64L + 20P)	51 (24L + 9P)	40	62.5	11	55
2013-2014	102 (72L + 10P)	51 (24L + 9P)	48	67	01	10
2014-2015	110 (80L + 10P)	51 (24L + 9P)	56	70	01	10

Postgraduate - M.C.A.

Year	Total Workload of Department	Total Workload of Permanent Faculty	Lectures delivered by Temporary Faculty		Practical Classes handled by Temporary Faculty	
			Number	Percentage (%)	Number	Percentage (%)
2010-2011	162 (72L + 30P)	17 (8L + 3P)	64	88	27	90
2011-2012	162 (72L + 30P)	17 (8L + 3P)	64	88	27	90
2012-2013	162 (72L + 30P)	34 (16L + 6P)	56	77	24	80
2013-2014	162 (72L + 30P)	34 (16L + 6P)	56	77	24	80
2014-2015	162 (72L + 30P)	34 (16L + 6P)	56	77	24	80

13. Student-Teacher Ratio (programme wise):

Level	Class	Number of Teachers	Student-Teacher Ratio
Undergraduate	B.Sc. Students Strength (F.Y. + S.Y. + T.Y.) (160 + 160 + 160) = 480	32	480/32 = 15:1
Postgraduate	M.Sc. Students Strength (Part-I + Part-II) (60 + 60) = 120	6	120/6 = 20:1
	M.C.A. Students Strength (Part-I + Part-II + Part-III) (60 + 60 + 60) = 180	6	180/6= 30:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Number of Support Staff (Lab Assistant and Lab Attendant)		
	Sanctioned	Filled
Lab Assistants	04	04
Lab Attendants	08	08

15. Qualification of teaching faculty with D.Sc./ D.Litt./ Ph.D./ M.Phil./ PG: PG – 38; M.Phil. – 05; Ph.D. – 01

16. Number of faculty with ongoing projects from a) National
b) International funding agencies and grants received: 02

Duration	Name of Faculty	Title of Project	Name of Funding Agency	Grant received (Rs.)	Status (Minor/Major)
2014-2016	Shri. Manoj Kukade	Development of E-nose for evaluation of spices	BCUD - SPPU	1,80,000/-	Minor
2014-2016	Smt. Shubhangi Thakar	Statistical Analysis of various system and application logs found on servers in Local Area Network	BCUD - SPPU	1,20,000/-	Minor

17. Departmental Projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received: Nil

18. Research Centre/facility recognized by the University: Nil

19. Publications:

Name of Faculty	Papers			Books	Total Publications	Impact Factor
	International	National	Proceedings	National		
Smt. Shubhangi Page	1	-	-	-	1	-
Dr. Kavita Khobragade	3	-	-	15	18	3.55
Smt. Smita Bhanap	1	-	-	-	1	2.82
Smt. Rasika Kulkarni	-	-	-	1	1	-
Ms. Sonali Kulkarni	2	-	4	-	6	0.62
Smt. Deepali Dhainje	2	1	9	8	20	-
Smt. T. Sree Lalitha	-	-	-	5	5	-
Smt. Lochana Mahajan	-	-	-	3	3	-
Smt. Kalyani Gaikwad	-	-	2	-	2	-
Smt. Arati Nimgaonkar	1	-	-	-	1	0.48
Total	10	1	15	32	58	7.48

20. Areas of Consultancy and Income generated:

- Setting up of Linux Laboratory – Honorary Consultancy
- Training of Data Mining Tool 'WEKA' – Honorary Consultancy

21. Faculty as members in a) National Committees b) International Committees c) Editorial Board:

Name of Faculty Members	National Committee/International Committee/Editorial Board	Any other Committee/Board
Dr. Kavita Khobragade	Journal of Biometrics - Peer reviewed International Journal	-
Ms. Sonali Kulkarni	Reviewer of IEEE	-

22. Student projects:

- Percentage of students who have done in-house projects including inter departmental/programme: UGC-CPE (UG-03); PG – 10%
- Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/ Industry/other agencies: 100% PG students.

23. Awards/Recognitions received by faculty and students:

Title of Award/ Recognition	Name of Faculty/ Student	Year
National Level Musical competition: Light Music – First Prize Classical music - Second Prize	Sanika Goregaonkar	2010-2011
State level musical competition “Swar Madhuri” ELIT Karandak - First Prize		

Shiv Chhatrapati Award in Taekwondo	Shraddha Bhatt	2010-2011
Computer project competition 'ELECOMP-2011' - Third Prize	Abhishek Jain Akshat Jain	2010-2011
Best Paper Presentation in the International Conference on Global Economic Crisis and Strategic advantage, SIOM, Pune – Third Prize	Smt. Arati Nimgaonkar	2011-2012
Rugby at International Level Cup Winner All India Div. 1 Women's 7's	Neha Pardesi	2011-2012
Statistics Quiz Competition - First Prize	Sudesh Kumari	2011-2012
Best Paper Presentation eITBM 7 th National Conference on emerging trends in IT and Business Management, VIIT, Baramati – First Prize	Smt. Aparna Vaidyanathan	2012-2013
Best Paper Presentation eITBM 7 th National Conference on emerging trends in IT and Business Management, VIIT, Baramati –Second Prize	Smt. Shubhangi Page	2012-2013
	Smt. Sujata Ambekar	
Inter-zonal University Swimming Competition - 3 Gold and 2 Silver Medals	Raghurai Kulkarni	2012-2013
All India University Swimming Championship - Silver Medal		
Under 18 National Basketball Championship held at Pondicherry - Silver Medal	Sneha Rajguru	2012-2013
Under 18 Fiba Asia Championship for women held at Malaysia, Johor Bahru - Fifth place		
63 rd Senior National Basketball Championship for women held at Ludhiana, Punjab - Fifth Place		
Special Recognition for her work as a volunteer in the SAFAR Emission Inventory Campaign, Pune 2012, Indian Institute of Tropical Meteorology, Government of India	Himalee Aadhav	2012-2013
Best Paper Presentation – 2 nd National Conference on Recent Trends in Computer Science and applications and Computational Mathematics, Indira Collge, Pune	Smt. Kavita Khobragade	2013-2014
Vishesh Pratibha Gaurav Puraskar by Uttar Bharatiya Sangh, Social & Cultural Organization, Pune - Best Teacher	Smt. Swati Joglekar	
District, State, National level Swimming Championships - 11 Gold and 3 Silver Medals	Raghurai Kulkarni	2013-2014
Excellence in swimming by Pune University		
3 rd Junior (U- 19) Maharashtra State Roll Ball Championship – 2013 held at Nandurbar, Maharashtra - First place	Rohan Dabhade	2013-2014
Second Roll Ball World Cup held at Moi International Sports Centre Kasarani, Nairobi, Kenya from 3 rd to 6 th October 2013 - First Place		
Ashwamedh Tournament held at Nashik - Gold Medal	Sneha Rajguru	2013-2014
International Adventure Race Enduro and completed it in 20 hours flats - 4 th position	Arham Shaikh	2013-2014
All India 7's Rugby National Championship at Bhubaneshwar, Orissa in October 2013 - Runner up (Second position)	Neha Pardesi	2013-2014

24. List of eminent academicians and scientists/visitors to the department:

- Padma Bhushan Dr. Vijay Bhatkar, Director ETH – Key Note Address for NCETCSA 2013.
- Dr. L. M. Patnaik, Vice-Chancellor, DIAT, Pune – Special Lecture in Samvaad Lecture series
- Dr. Sudha Murthy, Chair Person of Infosys Foundation and Trustee of Infosys Foundation – Interaction with the students.

25. Seminars/Conferences/Workshops organized & the source of funding:

Year	Title of Seminar/ Conference/Workshop	Funding Agency	Amount Sanctioned (Rs.)
2013-2014	National Conference on Emerging Trends in Computer Science and Computer Applications (NCETCSA-2013)	BCUD – SPPU	50,000/-
2014-2015	Workshop on the Syllabus revision of MCA Part-III	BCUD – SPPU	30,000/-

26. Student profile programme/course wise: Undergraduate - B.Sc. (CS)

Academic Year	Applications received	Selected	Enrolled		Pass percentage (%)
			M	F	
2010-2011	1484	189	101	88	61
2011-2012	1232	157	91	66	70
2012-2013	1212	174	95	79	57
2013-2014	1101	184	111	73	56
2014-2015	1147	184	98	86	Results Awaited

Postgraduate - M.Sc. (CS)

Academic Year	Applications received	Selected	Enrolled		Pass percentage (%)
			M	F	
2010-2011	1950	68	43	25	84
2011-2012	1860	69	42	27	87
2012-2013	1615	67	41	26	90
2013-2014	730	67	38	29	86
2014-2015	940	61	41	20	Results Awaited

Postgraduate – M.C.A. (Science)

Academic Year	Applications received	Selected	Enrolled		Pass percentage (%)
			M	F	
2010-2011	1681	63	35	28	82
2011-2012	1795	65	37	28	91
2012-2013	1291	59	42	17	100
2013-2014	659	56	31	25	90
2014-2015	629	51	30	21	Results Awaited

27. Diversity of Students: Undergraduate – B.Sc. (CS)

Academic Year	% of Students from Same State	% of Students from Other States	% of students from abroad
2010-2011	85	4	11
2011-2012	94	3	3
2012-2013	87	5	8
2013-2014	80	8	12
2014-2015	89	6	5

Postgraduate - M.Sc. (CS)

Academic Year	% of Students from Same State	% of Students from Other States	% of students from abroad
2010-2011	91	2	7
2011-2012	94	0	6
2012-2013	96	2	2
2013-2014	96	2	2
2014-2015	94	3	3

Postgraduate – M.C.A. (Science)

Academic Year	% of Students from Same State	% of Students from Other States	% of students from abroad
2010-2011	100	0	0
2011-2012	97	3	0
2012-2013	98	2	0
2013-2014	95	5	0
2014-2015	86	14	0

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.?: NET - 02, SET - 01

29. Student progression:

Student progression	Against % enrolled
UG to PG	75%
PG to M.Phil.	-
PG to Ph.D.	5%
Ph.D. to Post-Doctoral	-
Employed	100%
• Campus selection	
• Other than campus recruitment	
Entrepreneurship/Self-employment	1%

30. Details of Infrastructural facilities:

- Library (Departmental Library) UG: Area – 1064 sq.ft.; PG: Area - 600 sq.ft. Number of Books – 6000 (UG), 5425 (PG); Number of Journals Subscribed - 08
- Internet facilities for Staff & Students: Computers with Internet - 40
- Classrooms/Laboratories with ICT facility – 06 (Classroom) + 03 (Laboratory)

- Laboratories:

Name of Laboratory	Area (sq.ft.)	No. of Computers	Other Facilities
Kanad	1,500	40	UPS, DLP
Panini	1,500	40	UPS, DLP
Ramanujan	1,500	20	UPS
Raman	1,500	27	UPS, DLP
Internet Lab	1,000	24	UPS
Koyana	1,000	25	UPS
Chandrabhaga	1,200	27	UPS

31. Number of students receiving financial assistance from college, university, government or other agencies:

- An average of 60% students get financial assistance from State Government agencies in the form of Scholarship/Freeship

32. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts:

Year	Title/Type of Programme	Names of Resource Person(s) (External)
2010-2011	Lecture series under Samvaad	Shri. Ashutosh Gulanikar, TCS Shri. R. Venkatesh, TCS Shri. Atul Tulshibagwale, Linguanext Dr. A. R. Dani, Symbiosis Institute for Computer Studies & Research, Pune Dr. (Smt.) Sangeeta Kale, DIAT, Pune Dr. Shakti Gupta, DIAT, Pune Dr. L. M. Patnaik, Vice Chancellor, DIAT, Pune Dr. Uday Khedekar, Professor, Computer Science and Engineering Department, IIT-Mumbai
	Guest lecture on 'Nanotechnology'	Dr. Sangeeta Kale, HOD, Material Science and Physics, DIAT, Pune
	Guest lecture on 'Embedded Systems'	Dr. Kathe, Director, Microbytes, Pune
2011-2012	University level workshop on M. Sc. (Computer Science) Syllabus Implementation	Dr. A. R. Dani, Dr. Sanjay Kadam, Smt. Shirwaikar, Smt. Nagarkar, Shri. Tamhankar
	Lecture series under Samvaad	Shri. Damodar Kulkarni, SPPU, Pune. Shri. S. Chandrashekhar, Emphasis Shri. Aniket Anikhindi, Sureline Systems India Pvt. Ltd. Dr. S. N. Bhavsar, Ex-Coordinator, Knowledge Group, C-DAC
	NET/SET Examination Preparation Lecture Series was conducted for the Post - Graduate students	Ms. Poonam Ponde, Wadia College Shri. Parag Tamhankar, Garware College
	IT - Readiness Seminar for Post-Graduate students	Shri. Makrand Vaidya, Shri. Sudhanva Rajurkar – Coreview Systems

	Lecture series on Android based development	Shri. Shrenik Vikam, Agreeya Mobility
	Seminar on Mobile Computing	Quagnitia Systems Pvt. Ltd.
	Lecture on Hands on programming experience for .NET	Shri. Yogesh Jogalekar, Extensia
	Lecture Series on 'Windows Internals'	Shri. Rohit Magdum, Media Magic
	Workshop on 'Electronic Circuits in Automotive Systems'	Shri. Sameer Kelkar, Honeywell, Pune
	Seminar on topic 'GSM Technology'	Shri. Bhaskar Safar, BSNL, Pune
2012-2013	University-level workshop on "Views On Electronics Syllabus Upgradation for F.Y.B.Sc. (Computer Science)"	Dr. A. D. Shaligram, Head, Electronic Science, SPPU, Pune, Dr. P. B. Buchade, Chairman, Board of Studies, Electronic Science, SPPU, Pune
	Lecture series under 'Samvaad'	Dr. Shriniwas Londhe, VIIT, Pune Dr. S. D. Gore, SPPU, Pune Shri. Mandar Joshi, Avaya Smt. Padmaja Joshi, Freelancer
	Workshop on Faculty Personality Development Programme	Ms. Anagha Adoni, Shri. Pankaj Mithbhakare
	Android Training Session	Shri. Bjorn Mascarenhas, Young Entrepreneur Shri. Sumedh More, Media Magic
	Soft Computing Workshop	Dr. Seema Purohit, Kirti College, Mumbai Dr. Shriniwas Londhe, VIT, Pune Dr. Yogesh Dandavate, ICERTIS, ISSC
	Guest lecture 'Contribution of Ramanujan in Mathematics'	Dr. Sholapurkar, Head, Department of Mathematics, S.P. College, Pune
	Guest lecture on the topic 'Digital Image Processing'	Dr. Mrinal Puranik, Persistent Systems Pvt. Ltd.
2013-2014	Lecture on .NET Programming	Shri. Vishal Pai, Persistent Systems Pvt. Ltd.
	Sessions in C, C++	Shri. Pankaj Jagasia, Freelancer
	Aptitude analytical skills session	Shri. Sachin Lade, Cognizant
	Workshop on 'Personality Development'	Shri. Pankaj Mithbhakare and Smt. Anagha Adoni, Anvay Psychological Health Centre
	Seminar on 'Windows Programming'	Shri. Rohit Magdum, Media Magic
	Guest Lecture on '3G and 4G Evolution'	Dr. A. D. Shaligram, Head, Department of Electronic Science, SPPU, Pune

2014-2015	Guest lecture on role of Electronics in Computer Science	Prof. Jayant Khedkar (Retired, F. C., Pune)
	Hands-on training on Android (3-days workshop)	Vishal Pai from Persistent Systems Pvt. Ltd.
	National Network security Championship – 2014 in collaboration with IIT-Bombay	Expert from M/s. Network Bulls
	Panel Discussion on Entrepreneurship – A New Horizon	Shri. Arun Kadekodi, Soft Corner Shri. Monish Darda, ICERTIS and Shri. Shrikant Gurjar, Micromate

33. Teaching methods adopted to improve student learning:

- ICT based teaching/explanation in Computer Science laboratory for B.Sc. (C.S.) students
- Demo for the Electronics Practicals
- Special sessions from Industry experts for PG courses
- Lab book design for F.Y. and S.Y. Electronics Practicals
- Lab book design for M.C.A. (Semester IV).

34. Participation in Institutional Social Responsibility (ISR) and Extension activities: Nil

35. SWOC analysis of the department and Future plans:

Strengths:
1. Good Infrastructure
2. Placement Cell and pre-placement activity
3. Separate Departmental Libraries for UG and PG students
Weaknesses:
1. Aptitude for Research
Opportunities:
1. Industry Collaboration
Challenges:
1. Remain updated on current trends
2. Prepare students for global competency
3. Attract and retain good faculty

Future Plans

- Enhance Industrial projects which will add to future prospects of students and department
- Propagate Research activity by undertaking Research projects.



1. Name of the Department: **Electronic Science**
2. Year of Establishment: Undergraduate - 1985
Postgraduate - 1992
3. Names of Programmes/Courses offered:
B.Sc., M.Sc. and Ph.D.
4. Names of Interdisciplinary Courses and department/units involved:
 - Communication System – Photography Department
 - Audio and Video System – Photography Department
5. Annual/Semester/Choice based Credit system (programme wise):
B.Sc. (F.Y.) – Annual, B.Sc. (S.Y. and T.Y.) – Semester,
M.Sc. – CBCS
6. Participation of the department in the courses offered by other departments:

Title of Course	Topic(s)	Names of Teachers
Vocational Photography	Video System	Shri. Sunil Bhagwat
Vocational Photography	Digital communication system	Dr. Vijay Labade

7. Courses in collaboration with other Universities, Industries, Foreign Institutions, etc.: Nil
8. Details of courses/ programmes discontinued (if any) with reasons: Nil
9. Number of Teaching Posts:

Undergraduate	Sanctioned	Filled
Associate Professors	06	06
Assistant Professors	03	01
Assistant Professors (Temporary)	-	02

Post Graduate	Sanctioned	Filled
Associate Professors	01	01
Assistant Professors (Temporary)	05	04

10. Faculty profile: Undergraduate

Name	Qualification	Designation	Specialization	Experience	No. of Ph.D.s guided
Dr. Nitin Kulkarni	M.Sc., Ph.D.	Head and Associate Professor	Electronic Science	29	04 (Completed) 01 (Submitted) 05 (Ongoing)
Shri. Anand Bhide	M.Sc., M.Phil., DHE	Associate Professor	Physics	34	-
Shri. Sunil Bhagwat	M.Sc., M.Phil., DHE	Associate Professor	Physics	34	-

Smt. Shubhangi Katti	M.Sc.	Associate Professor	Electronic Science	27	-
Smt. Amruta Kathe	M.Sc.	Associate Professor	Electronic Science	24	-
Dr. Madhukar Zambare	M.Sc., Ph.D.	Associate Professor	Electronic Science	21	06 (Ongoing)
Dr. Vijay Labade	M.Sc., M.Phil., Ph.D.	Assistant Professor	Electronic Science	16	-
Shri. Jayant Khedkar (Retired on 30/09/2014)	M.Sc., M.Phil., DHE	Associate Professor	Physics	36	-
Shri. Sandip Dhavale	M.Sc.	Assistant Professor	Electronic Science	05	-
Ms. Yogita Choudhari	M.Sc.	Assistant Professor	Electronic Science	03	-

Postgraduate

Name	Qualification	Designation	Specialization	Experience
Dr. Sachin Khedkar	M.Sc., Ph.D.	Associate Professor	Physics	18
Smt. Kalpana Kulkarni	M.Sc.	Assistant Professor	Electronic Science	12
Smt. Yogita Khandge	M.Sc.	Assistant Professor	Electronic Science	09
Ms. Ranjana Tilekar	M.Sc.	Assistant Professor	Electronic Science	06
Ms. Panchsheela Kamble	M.Sc.	Assistant Professor	Electronic Science	05

11. List of Senior Visiting Faculty:

Name	Institute/Organization
Prof. A. D. Shaligram	Head and Professor, Department of Electronic Science, SPPU, Pune
Prof. Prashant Dudam,	PICT, Pune
Shri Ashis Bhopale	Oasis Technology, Pune
Shri. D. A. Kulkarni	Govt. Polytechnic, Pune
Shri. Sudhir Bhosale	Abasaheb Garware College, Pune

12. Percentage of Lectures delivered and practical classes handle (programme wise) by temporary faculty:

Year	Total Workload of Department	Total Workload of Permanent Faculty	Practical Classes handled by Temporary Faculty	
			Number	Percentage (%)
2010-2011	220	194	20	11
2011-2012	216	196	20	11
2012-2013	176	160	16	10
2013-2014	176	160	20	11
2014-2015	176	160	20	11

13. Student-Teacher Ratio (programme wise):

Level	Class	Number of Teachers	Student-Teacher Ratio
Undergraduate	B.Sc. Students Strength (F.Y./4 + S.Y./3 + T.Y./1)	9	147/9 = 16:1
	(216/4 + 120/3 + 53/1) = 147		
Postgraduate	M.Sc. Students Strength (Part-I + Part-II)	5	85/5 = 17:1
	85		

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Number of Support Staff (Lab Assistant and Lab Attendant)			Number of Administrative Staff (Clerical Staff at Department Level)		
	Sanctioned	Filled		Sanctioned	Filled
Lab Assistants	01	01	Office Assistants	01	01
Lab Attendants	04	04	Lab Attendants	01	01

15. Qualification of teaching faculty with D.Sc./D.Litt./Ph.D./M.Phil./PG: PG - 08; M.Phil. - 03; Ph.D. - 04

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: 03

Duration	Name of Faculty	Title of Project	Name of Funding Agency	Grant Received (Rs.)	Status (Minor/Major)
2013-2016	Dr. Nitin Kulkarni	Monitoring the quality of food and fruit containers during storage using RFID and WSN	BCUD - SPPU	2,10,000/-	Minor
2013-2015	Dr. Madhukar Zambare	Studying the impact of tree Canopy on Air pollution using Wireless Sensor Network	UGC	83,000/-	Minor
2012-2014	Shri. Jayant Khedkar	Speaker Independent Automatic Recognition System for Marathi Language	BCUD - SPPU	3,00,000/-	Minor

17. Departmental Projects funded by DST-FIST; UGC, DBT, ICSSR, etc., and total grants received:

Title of Project	Funding from DST-FIST/ UGC XI Plan, XII Plan, DBT, Any Other	Grant received (Rs.)
CAD for PCB and SMD Practices	DBT	7,00,000/-
PLC Training for Industrial Automation		

Hands-on Experience with various sensors, interfacing and signal conditioning circuits		
Modelling and simulation for Science with MATLAB		
Real World interfacing for Smart Instrument		
Poster for Micro Controller	UGC-CPE (2012 – 2013)	5,000/-
Electronics Target Board for OP-Amp		5,000/-
Electronics for everyone		10,000/-
Life and Works of Scientists in Electronics		5,000/-
Mathematics for Electronic Science	UGC-CPE (2013 – 2014)	10,000/-
Digital System Design		10,000/-
Video Signal Analysis by Labview	UGC-CPE (2014 – 2015)	20,000/-
Development of Energy Harvesting System for human health monitoring		20,000/-
UGC – BSR Scheme II	UGC BSR (2014 - 2015)	30,000/-

18. Research Centre/facility recognized by the University: Recognition by SPPU, Pune; Letter No. CCZ/1223 dated – 23/05/1998

19. Publications:

Name of Faculty	Papers			Total Publications	Impact Factor	Total Citation	h-Index
	International	National	Proceedings				
Dr. Nitin Kulkarni	11	-	9	20	8.29	17	2
Shri. Anand Bhide	-	-	2	2	-	-	-
Shri. Sunil Bhagwat	-	-	1	1	-	-	-
Smt. Shubhangi Katti	2	-	6	8	1.56	-	-
Smt. Amruta Kathe	-	-	1	1	-	-	-
Dr. Madhukar Zambare	-	-	4	4	-	2	1
Dr. Vijay Labade	2	3	16	21	7.44	10	2
Shri. Jayant Khedkar (Retired)	-	-	2	2	-	-	-
Shri. Sandip Dhavale	-	1	5	6	-	-	-
Smt. Kalpana Kulkarni	1	1	5	7	1.56	-	-
Smt. Yogita Khandge	-	-	2	2	-	-	-
Smt. Panchsheela Kamble	-	-	1	1	-	-	-
Total	16	5	54	75	18.85	29	5

20. Areas of Consultancy and Income generated: Nil

21. Faculty as members in a) National committees b) International Committees c) Editorial Board:

Name of Faculty Members	National Committee/International Committee/Editorial Board	Any other Committee /Board
Dr. Nitin Kulkarni	i. Editorial Board – SPEED Journal of Research in Electronics ii. Co-PI for e-PG Pathshala Project	-
Dr. Madhukar Zambare	i. Editorial Board – SPEED Journal of Research in Electronics ii. Content Writer for e-PG Pathshala Project	BOS and Faculty of Science
Dr. Vijay Labade	i. Editorial Board – SPEED Journal of Research in Electronics ii. Content Writer for e-PG Pathshala Project	-
Smt. Kalpana Kulkarni	i. Editorial Board – SPEED Journal of Research in Electronics ii. Content Writer for e-PG Pathshala Project	-
Shri. Anand Bhide	Content Writer for e-PG Pathshala Project	-
Shri. Sunil Bhagwat	Content Writer for e-PG Pathshala Project	-
Smt. Shubhangi Katti	Content Writer for e-PG Pathshala Project	-
Smt. Amruta Kathe	Content Writer for e-PG Pathshala Project	-
Dr. Sachin Khedkar	Content Writer for e-PG Pathshala Project	-
Smt. Kalpana Kulkarni	Content Writer for e-PG Pathshala Project	-
Smt. Yogita Khandge	Content Writer for e-PG Pathshala Project	-
Ms. Ranjana Tilekar	Content Writer for e-PG Pathshala Project	-
Ms. Panchsheela Kamble	Content Writer for e-PG Pathshala Project	-

22. Student projects:

- a) Percentage of students who have done in-house projects including inter departmental/programme: UG – 316; PG – 228; UGC-CPE – 08; UGC-BSR – 06 (UG: 100%; PG: 40%)

Academic Year	Number of In-House Projects (UGC-CPE, UGC-BSR and PG Projects)	% of students involved against number of students enrolled for class
2010-2011	UG - 95, PG - 47	UG - 100%, PG - 30%
2011-2012	UG - 84, PG - 52	UG - 100%, PG - 40%
2012-2013	UG - 55, PG - 47, UGC-CPE - 04	UG - 100%, PG - 50%
2013-2014	UG - 31, PG - 44, UGC-CPE - 02	UG - 100%, PG - 35%
2014-2015	UG - 51, PG - 38, UGC-CPE - 02, UGC-BSR - 06	UG - 100%, PG - 48%

- b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/ Industry/other agencies: 40%

Academic Year	Number of Outside Projects (Research Labs, Industry, NGO's etc.)	% of students involved against number of students enrolled for class
2010-2011	PG - 22	40%
2011-2012	PG - 20	40%
2012-2013	PG - 23	40%
2013-2014	PG - 20	40%
2014-2015	PG - 03	40%

23. Awards / Recognitions received by faculty and students:

Title of Award/ Recognition	Name of Faculty/Student	Year
Shikshak Gourav Purskar from Phule, Shahu, Ambedkar Pratishthan	Smt. Shubhangi Katti	2010
Xplore Automation 2012 Award		2012
Best Research Paper Award at National Conference at Calicut – First Prize	Shri. Vijay Labade	2011
Best Paper Presentation Award at National Conference NCAEIA-14 at Pune – First Prize		2014
Parvati Bhushan Award	Shri Jayant Khedkar	2012
Best Project Guide Award	Dr. Madhukar Zambare	2012
Best Teacher Award	Dr. Nitin Kularni	2013
Best Teacher Award	Shri. Anand Bhide	2013
Best product Design Award	Smt. Kalpana Kulkarni	2014
Poster Presentation Award – Second Prize	Smt. Kalpana Kulkarni Smt. Yogita Khandge	2014
Gold medal at Intercollegiate Level, Bronze Medal at State Level in Boxing	Gayatri Vanarase	2011
Project competition – Second Prize	Swapnil Gavali Mayur Bagul	2015
Best Animation Clip – First Prize	Nilesh Deshmukh Meghraj Zadikar	2014

24. List of eminent academicians and scientists/visitors to the department:

- Dr. S. A. Gangal, SPPU, Pune - Inauguration of ESA
- Dr. Vidyadhar Borkar, SPPU, Pune
- Smt. Kavita Bhalerao, Pune
- Dr. A. D. Shaligram, SPPU, Pune
- Dr. S. Anant Krishnan, SPPU, Pune
- Shri. Prabhakarant Pandit, Pune
- Smt. Neelima Iyer, NCL, Pune
- Dr. S. Radhakrishnan, NCL, Pune
- Dr. Satish Tare, Pune
- Dr. Shashikant Sadistap, BITS-Pilani, Rajasthan
- Prof. S. V. Ghaisas, SPPU, Pune
- Dr. D. C. Gharpure, NCL, Pune
- A Team of Penn State University Professors
- Shri. Mangesh Edke, Pune
- Dr. A. B. Rao, Pune

25. Seminars/Conferences/Workshops organized & the source of funding:

Year	Title of Seminar/ Conference/ Workshop	Funding Agency	Amount Sanctioned (Rs.)
2013-2014	One day workshop on preparation and implementation of M.Sc. –I (Electronic Science syllabus)	BCUD-SPPU	10,000/-
2012-2013	One day workshop on AVR Microcontroller	Fergusson College, Pune	-
2013-2014	Workshop on Matlab and ‘C’ Programming for T.Y. B.Sc. students	Fergusson College, Pune	-
2013-2014	One day workshop on preparation and implementation of M.Sc. –II (Electronic Science syllabus)	BCUD-SPPU	10,000/-
2014-2015	DBT Star Workshop on PCB Makings	DBT Star College Scheme Govt. of India	15,000/-
2014-2015	DBT Star Workshop on PLC	DBT Star College Scheme Govt. of India	15,000/-
2014-2015	DBT Star Workshop on Sensors and Signal Conditioning Circuits	DBT Star College Scheme Govt. of India	15,000/-
2014-2015	DBT Star Workshop on Modelling And Simulation For Learning Science With MATLAB	DBT Star College Scheme Govt. of India	15,000/-
2014-2015	DBT Star Workshop on Real World interfacing for smart Instrumentation	DBT Star College Scheme Govt. of India	15,000/-

26. Student profile programme/course wise: Undergraduate

Academic Year	Applications received	Selected	Enrolled		Pass percentage (%)
			M	F	
2010-2011	100	100	73	37	74
2011-2012	102	102	61	41	71
2012-2013	72	72	45	27	80
2013-2014	31	31	15	16	65
2014-2015	53	53	33	20	Results Awaited

Postgraduate

Academic Year	Applications received	Selected	Enrolled		Pass percentage (%)
			M	F	
2010-2011	180	59	27	32	81
2011-2012	200	60	32	28	79
2012-2013	180	45	26	18	87
2013-2014	160	52	19	33	85
2014-2015	92	44	26	18	Results Awaited

27. Diversity of Students: Undergraduate

Academic Year	% of students from same state	% of students from other states	% of students from abroad
2010-2011	82	14	4
2011-2012	87	12	1
2012-2013	80	15	5
2013-2014	85	15	-
2014-2015	50	3	-

Postgraduate

Academic Year	% of students from same state	% of students from other states	% of students from abroad
2010-2011	89	-	11
2011-2012	98	-	2
2012-2013	96	2	2
2013-2014	95	5	-
2014-2015	99	1	-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.? NET: 09, SET: 01, GATE: 01, CDS (Defence): 01

29. Student progression:

Student progression	Against % enrolled
UG to PG	60 %
PG to M.Phil.	-
PG to Ph.D.	1%
Ph.D. to Post-Doctoral	-
Employed	
• Campus selection	20%
• Other than campus recruitment	75%
Entrepreneurship/Self-employment	5%

30. Details of Infrastructural facilities:

- Library (Departmental Library): Area – 250 sq.ft.; Number of Books - 2225; Number of Journals Subscribed – 17
- Internet facilities for Staff & Students:
Computers with Internet - 50
- Classrooms with ICT facility – 05
- Laboratories: General Laboratory - I 800 sq.ft.; General Laboratory - II 600 sq.ft.; Special Laboratory 500 sq.ft.; Computer/Microcontroller Laboratory 500 sq.ft.; PG General Laboratory - I 500 sq.ft.; PG Computer Laboratory 300 sq.ft.; Research Laboratory 600 sq.ft.

31. Number of students receiving financial assistance from college, university, Government or other agencies:

Academic Year	Number of Students	Financial Assistance from College/ University/ Government/ Others
2010-2011	UG-02; PG-01	Fergusson College endowment
2011-2012	UG-02; PG-02	Fergusson College endowment
2012-2013	UG-02; PG-02	Fergusson College endowment
2013-2014	UG-02; PG-02	Fergusson College endowment
2014-2015	UG-02; PG-02	Fergusson College endowment

- An average of 60% students get financial assistance from Central/ State Government agencies in the form of Scholarship/Freeship

32. Details on student enrichment programmes (special/lectures/workshops/seminar) with external experts:

Year	Title/Type of Programme	Names of Resource Person(s) (External)
2010-2011	C, MATLAB workshop	Smt. U. P. Deshmukh Shri. A. S. Gaware
2011-2012	Industry Academia meet Guest Lecture Cyber crime Science and literature	Shri. V. S. Kale Dr. Arun Gosavi Dr. Anant Krishnan Dr. Sunil Gokhale Dr. Vidyadhar Borkar Smt. Kavita Bhalerao
2012-2013	C, MATLAB workshop Nano technology AVR workshop	Smt. Nilima Iyer Dr. S. N. Kale
2013-2014	C, Matlab PCB making One day workshop excellence in electronics Research Methodology	Dr. Satish Tare Prof. Anant Krishnan Prof. S. V. Ghaisas Shri. Sharad Pustake Dr. G. S. Mani Dr. S. Radhakrishnan

33. Teaching methods adopted to improve student learning:
- Display of challenging questions
 - e-Games
 - Circuit building competition
 - Power point presentation competition
 - Group Discussion of students on given topic
 - e-content generation and development
34. Participation in Institutional Social Responsibility (ISR) and Extension activities:
- Guidance to rural area students about preparing simple electronic gadgets
 - Guidance to school students at adopted village of NSS regarding development of small electronic gadgets using simple soldering technique

35. SWOC analysis of the department and Future plans:

Strengths: <ol style="list-style-type: none">1. Skill Enrichment activities and Vocational Courses2. Well equipped laboratories3. Good Research Culture4. Participation in College Administration and NME-ICT project5. Rich Departmental Library
Weaknesses: <ol style="list-style-type: none">1. Inadequate space for M.Sc. class Room & PG student activities
Opportunities: <ol style="list-style-type: none">1. Socially useful activities can be organized for creating awareness about electronics2. To develop a power station for e experts through the development of a bigger research laboratory3. To enhance Industry academia interactions
Challenges: <ol style="list-style-type: none">1. To keep pace with ever changing electronics environment through modernization of syllabi2. To compete for preferential placement activity for UG & PG students

Future Plans

- Enhance network with Electronics Industries through placement centre
- Develop system of renewable energy source for laboratories
- Development of e-learning /e-contents for Undergraduate students.



1. Name of the Department: **Environmental Science**
2. Year of Establishment: Undergraduate - 2005
Postgraduate – 2007
3. Names of programmes/Courses offered: B.Sc., M.Sc. and Ph.D.
4. Names of Interdisciplinary Courses and department/units involved:
Nil
5. Annual/Semester/Choice based Credit system (programme wise):
B.Sc. (F.Y.) – Annual, B.Sc. (S.Y. and T.Y.) – Semester,
M.Sc. – CBCS
6. Participation of the department in the courses offered by other departments:

Title of Course	Topic(s)	Names of Teachers
M.Sc. Botany- Ecosystem	Ecosystem, Ecophysiology, Succession	Dr. Ashish Vilas Mane
M.Sc. Geology- Environmental Issues	Water and Soil Pollution	Dr. Ashish Vilas Mane
B.Sc. Computer Science - Environmental Awareness	Ecosystem, Biodiversity, Law	Dr. Ashish Vilas Mane
B.Sc. Computer Science - Environmental Awareness	Pollution	Shri.Amir Mulla
B.Sc. Computer Science - Environmental Awareness	Field visit and Project Evaluation	Smt. Rupali Gaikwad

7. Courses in collaboration with other Universities, Industries, Foreign Institutions, etc.: Nil
8. Details of courses/programmes discontinued (if any) with reasons: Nil
9. Number of Teaching Posts:

Undergraduate/Post Graduate	Sanctioned	Filled
Assistant Professors	09	06

10. Faculty profile:

Name	Qualification	Designation	Specialization	Experience (Years)
Smt. Rupali Gaikwad	M.Sc., M.Phil.	Head and Assistant Professor	Environmental Biotechnology	10
Smt. Shraddha Kulkarni	M.Sc., M.Phil.	Assistant Professor	Biostatistics	08
Smt. Priti Aphale	M.Sc., B.Ed.	Assistant Professor	Restoration Ecology	10
Dr. Ashish Mane	M.Sc., Ph.D., MBA, PGDISO	Assistant Professor	Environmental Law	09
Shri. Vinayak Chavan	M.Sc.	Assistant Professor	Biodiversity	06
Shri. Amir Mulla	M.Sc.	Assistant Professor	Geosciences	06

11. List of Senior Visiting Faculty:

Name	Institution/Organisation
Dr. Girish Pathade	Principal of H. V. Desai College, Pune.
Dr. Bhalchandra Bhole	Head, Department of Microbiology, Abasaheb Garware College, Pune.
Dr. Shrirang. D. Mahajan	Former Head, Department of Botany, SPPU, Pune.
Dr. Prakash Gole	Director, Ecological Society, Pune.
Captain Rathi	Visiting Faculty, Department of Environmental Sciences, SPPU, Pune.
Dr. Himanshu Kulkarni	ACWADAM, Pune
Shri. Aniruddha Chaoji	Director, Pugmarks, Pune

12. Percentage of Lectures delivered and practical classes handled (programme wise) by temporary faculty: Nil

13. Student-Teacher Ratio (programme wise):

Level	Class	Number of Teachers	Student-Teacher Ratio
Undergraduate	B.Sc. Students Strength (F.Y./4 + S.Y./3 + T.Y./1)	6	57/6 = 10:1
	(46/4 + 32/3 + 35/1) = 57		
Postgraduate	M.Sc. Students Strength (Part-I + Part-II)	4	44/4 = 11:1
	44		

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Number of Support Staff (Lab Assistant and Lab Attendant)		
	Sanctioned	Filled
Lab Assistants	01	01
Lab Attendants	02	02

15. Qualification of teaching faculty with D.Sc./D.Litt./Ph.D./M.Phil./PG: PG – 03; M.Phil. – 02; Ph.D. – 01

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: 01

Duration	Name of Faculty	Title of Project	Name of Funding Agency	Grant received (Rs.)	Status (Minor/Major)
2014 - 2016	Dr. Ashish Mane	Treatment of Selected Industrial Effluents by using Electrocoagulation as Clean Technology Option	UGC	2,20,000/-	Minor
2015 - 2017	Dr. Ashish Mane	Treatment of Selected Industrial Effluents by Using Specially Designed Unit in Combination with Electrocoagulation and Low Cost Ecofriendly Materials	BCUD - SPPU	2,00,000/-	Minor

17. Departmental Projects funded by DST-FIST; UGC, DBT, ICSSR, etc., and total grants received: Nil
18. Research Centre/ facility recognized by the University:
Recognition by SPPU, Letter No. CA/857 dated 22/04/2013
19. Publications:

Name of Faculty	Papers		Total Publications	Impact Factor	Total Citation	h-Index	SJR
	International	Proceedings					
Dr. Ashish Mane	23	1	24	1.53	93	6	13
Smt. Rupali Gaikwad	-	1	1	-	-	-	-
Total	23	2	25	1.53	93	6	13

20. Areas of Consultancy and Income generated: Nil
21. Faculty as members in a) National committees b) International Committees c) Editorial Boards:

Name of Faculty Members	National Committee/International Committee/Editorial Board	Any other Committee/Board
Dr. Ashish Mane	i. Editor, Universal Journal of Environmental Research and Technology (Online Journal) ii. Editor, World Journal of Environmental Biosciences (Online Journal) iii. Editor, World Journal of Applied Environmental Chemistry (Online Journal) iv. Founder President of NGO 'Sahyadri Environmental Awareness Organization'.	-
Smt. Rupali Gaikwad	-	Member Subcommittee-Syllabus revision

22. Student projects:
- a) Percentage of students who have done in-house projects including inter departmental/programme:

Academic Year	Number of In-House Projects (UGC-CPE, UGC-BSR and PG Projects)	% of students involved against number of students enrolled for class
2010-2011	PG - 01	4%
2011-2012	UG - 02	9%
	PG - 03	6%
2012-2013	-	-
2013-2014	PG - 03	6.5%
2014-2015	UG - 04	6%
	PG - 02	11%

- b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies: 54%

23. Awards/Recognitions received by faculty and students:

Title of Award/Recognition	Name of Faculty/ Student	Year
Limca Book of Record	Maitreyee Bhosekar	2014
First prize at a national level seminar in resource conservation for groundwater quality analysis from selected areas of Pune city	Dr. Ashish Mane Surabhi Sheth Shruti Pande Sanchita Garule	2014
Antarctica Expedition 2015	Siddharth Bhagwat	2015
'Photography Award' organized by Department of Zoology, Panvel - First Prize 'Best volunteer of the year' in Tadoba Tiger Reserve by Forest Department, Government of Maharashtra.	Anish Pardeshi	2015
'Clean College Green College Award', Kirloskar Vasundhara International Film Festival, Pune - Second Prize	Prachi Bhujbal Sonal Jagtap Ketki Botre, Mrunal Karve, Shruti Gadwe, Dnyanesh Rathod	2015

24. List of eminent academicians and scientists/visitors to the department:

- Padmashree and Padmabhushan, Dr. Madhav Gadgil – Senior Ecologist, Pune
- Shri. Prakash Javadekar - Hon'ble Minister, Ministry of Environment, Forest and Climate Change, Government of India
- Sir. Robert Swan - Polar explorer and environmental activist for awareness and sensitising youth for sustainable living
- Dr. Nityanand Jayraman - Renowned Environmental Activist and Journalist, Chennai
- Shri. Aniruddha Chaoji - Director, Pugmarks, Pune
- Dr. Rebecca Thombare - Assistant Professor, Modern College, Pune
- Dr. S. D. Mahajan - Former Head, Department of Botany, SPPU, Pune
- Dr. Satish Pande - renowned Ornithologist, Director, Ela Foundation, Pune
- Dr. Anand Padhye - Assistant Professor, Abasaheb Garware College, Pune
- Dr. Rajendra Singh – Waterman of India.

25. Seminars/Conferences/Workshops organized & the source of funding:

Year	Title of Seminar/ Conference/Workshop	Funding Agency	Amount Sanctioned (Rs.)
2011-2012	National Environmental Awareness Campaign	BAIF, Pune	11,000/-

2011-2012	Karke Dikhao	Dr. Rajendra Singh, Magsaysay Award Winner	-
2011-2012	Seminar on Energy Conservation And Environment Protection	Petroleum Conservation And Research Association, Mumbai	-
2013-2014	Project launch LeadEarthship	TERI, New Delhi and Tetra Pak	
2013-2014	Teacher's training in Environmental sciences	World Wild life fund for Nature ,Pune ,India	
2014-2015	E-waste Conference	Kirloskar Vasundhara Film Festival	
2014-2015	LeadEarthship Phase II	TERI, New Delhi	
2014-2015	Waste fest	Kirloskar Vasundhara Film Festival	
2014-2015	Plastic free campaign	Fergusson College, Pune	

26. Student profile programme/course wise: Undergraduate

Academic Year	Applications received	Selected	Enrolled		Pass percentage %
			M	F	
2010-2011	13	13	06	07	100
2011-2012	30	30	15	15	93
2012-2013	15	15	09	06	100
2013-2014	27	27	11	16	100
2014-2015	35	35	14	21	Results Awaited

Postgraduate

Academic Year	Applications received	Selected	Enrolled		Pass percentage %
			M	F	
2010-2011	56	24	8	16	96.5
	27	27	9	18	
2011-2012	62	26	11	15	83
	23	23	9	14	
2012-2013	48	25	07	18	93
	24	24	10	14	
2013-2014	51	25	11	14	95
	21	21	04	17	
2014-2015	43	22	13	09	Results Awaited
	22	22	09	13	

27. Diversity of Students: Undergraduate

Academic Year	% of students from same state	% of students from other states	% of students from abroad
2010-2011	80	13	7
2011-2012	77	17	6
2012-2013	77	17	6
2013-2014	74	20	6
2014-2015	80.5	13	6

Postgraduate

Academic Year	% of students from same state	% of students from other states	% of students from abroad
2010-2011	84	9	7
2011-2012	82	12	6
2012-2013	81	19	0
2013-2014	87	11	2
2014-2015	95	4.5	0

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.: NET – 02, SET - 02, Defence Services – 03

29. Student progression:

Student progression	Against % enrolled
UG to PG	22%
PG to M.Phil.	-
PG to Ph.D.	4%
Ph.D. to Post-Doctoral	-
Employed	
• Campus selection	-
• Other than campus recruitment	40%
Entrepreneurship/Self-employment	20%

30. Details of Infrastructural facilities:

- Library (Departmental Library): Area - 194.5 sq.ft.; Number of Books - 498; Number of Journals Subscribed - 02
- Internet facilities for Staff & Students: Computers with Internet - 03
- Classrooms/Laboratories with ICT facility - 02
- Laboratories: Wet Laboratory - I – 900 sq.ft. with ICT; Dry Laboratory - II - 550 sq.ft.

31. Number of students receiving financial assistance from college, university, Government or other agencies:

- Shri. Mukul Dey - Received 1,000 US\$ as financial support from IUCN (Crocodile Specialist Group)
- An average of 60% students get financial assistance from State Government agencies in the form of Scholarship/Freeship

32. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts:

Year	Title/Type of Programme	Names of Resource Person(s) (External)
2010-2011	Lecture and discussion	Shri. Aniruddha Chaoji
2011-2012	Lecture discussion and field visit	Shri. Dharmaraj Patil
2012-2013	EIA Workshop	Smt. Poorva Keskar Smt. Anagha Paranjape
	Lecture	Shri. Dharmaraj Patil

2013-2014	Industry Academia Summit	Smt. Sulakshna Ahirekar
	Lecture and discussion	Shri. Aniruddha Chaoji.
2013-2014	Lecture	Ms. Vishakha Chandhere
	Microbial Treatment for E-waste	Dr. Rebecca Thombre, Assistant Professor, Modern College, Pune
	Eco-tourism	Shri. Aniruddha Chaoji, Director, Pugmarks, Pune
2014-2015	Kirloskar Vasundhara Film Festival	Nityanand Jayraman, Journalist from Chennai
2014-2015	Lecture on research Methodology	Dr. Anand Bholey

33. Teaching methods adopted to improve student learning:

- LCD presentations
- Software based demonstrations
- Field visits
- Group discussions
- Demonstrations
- Role play methods

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

- World Forest Day on 23rd March 2013 in association with Forest Department, Pune Division
- Sacred groove conservation at Maval Tehsil, Pune.
- Watershed management workshop at Panchgani, Satara District, Maharashtra.

35. SWOC analysis of the department and Future plans:

<p>Strengths:</p> <ol style="list-style-type: none"> 1. Well equipped laboratory 2. Five Research projects completed 3. Field oriented activities 4. Community participation
<p>Weaknesses:</p> <ol style="list-style-type: none"> 1. Inadequate infrastructure 2. Lack of Research Journals in Library
<p>Opportunities:</p> <ol style="list-style-type: none"> 1. Advanced Training Programs for staff 2. Organization of National/International Conferences 3. Strengthen Research Laboratory
<p>Challenges:</p> <ol style="list-style-type: none"> 1. To attract more students to study Environmental Science 2. Initiate Consultancy Services

Future Plans

- Scope to start courses on wildlife management, Environmental quality monitoring, Natural resource management, Environmental Impact Assessment and ISO
- Submit proposals for Research funding.



1. Name of the Department: **Geology**
2. Year of Establishment: Undergraduate – 1908
Postgraduate - 2007
3. Names of Programmes/Courses offered: B.Sc., M.Sc. and Ph.D.
4. Names of Interdisciplinary Courses and department/units involved: Nil
5. Annual/Semester/Choice based Credit system (programme wise):
B.Sc. (F.Y.) – Annual, B.Sc. (S.Y. and T.Y.) – Semester,
M.Sc. – CBCS
6. Participation of the department in the courses offered by other departments: Nil
7. Courses in collaboration with other Universities, Industries, Foreign Institutions, etc.: Nil
8. Details of courses/programmes discontinued (if any) with reasons: Nil

9. Number of Teaching Posts:

Undergraduate	Sanctioned	Filled
Associate Professors	05	05
Assistant Professors	04	02
Assistant Professors (Temporary)	-	03

Postgraduate	Sanctioned	Filled
Assistant Professors	02	01
Assistant Professors (Temporary)	-	01

10. Faculty profile:

Name	Qualification	Designation	Specialization	Experience (Years)	No. of Ph.D.s guided
Dr. Ravindrasinh Pardeshi	M.Sc., Ph.D. Diploma in Gemmology	Principal	Igneous Petrology and Gemmology	30	-
Dr. Ram Mache	M.Sc., Ph.D.	Associate Professor	Igneous petrology and remote sensing	36	-
Dr. Tanuja Marathe	M.Sc., M.Phil., Ph.D., D.C.S. (UK), D.G. (G.I.I., Mumbai), F.G.A. (London), D.G.D.I.G. (IDI, Surat), F.F.I.G.	Associate Professor	Igneous petrology and Gemmology	32	02 (Ongoing)
Dr. Pradeep Kumar Sarkar	M.Sc., Ph.D.	Associate Professor	Sedimentology and Physical Volcanology	28	-

Shri. Shashikant Raut	M.Sc.	Associate Professor	Mineralogy and Economic Geology	24	-
Dr. Shyam Mude	M.Sc., Ph.D.	Assistant Professor	Micro-palaeontology, Ichnology and Sedimentology	08	01 (Awarded) 01 (Submitted) 01 (Ongoing)
Shri. Devdutt Upasani	M.Sc.	Assistant Professor	Hydrogeology and Field Geology	04	-
Shri. Chinmay Thite	M.Sc.	Assistant Professor	Geo-tectonics	05	-
Shri. Amey Dashputre	M.Sc.	Assistant Professor	Geology Practicals	02	-
Ms. Aditi Bharadwaj	M.Sc.	Assistant Professor	Geology Practicals	01	-

Postgraduate

Smt. Madhuri Ukey	M.Sc.	Assistant Professor	Remote Sensing and Geographic Information System	05	-
Shri. Aneesh Soman	M.Sc.	Assistant Professor	Mineralogy	04	-

11. List of Senior Visiting Faculty:

Name	Institute/Organization
Prof. Ravindra K Sukhtankar	Former Professor, Department of Geology, Shivaji University, Solapur
Dr. Vidyadhar D. Borkar	Former Scientist Emeritus, Agharkar Research Institute, Pune
Dr. Pradeep B. Jadhav	Associate Professor, Head, Department of Geology, MIT College, Pune
Dr. Ravindra Kumar	Former Professor, Department of Geology, Punjab University, Chandigarh
Dr. Sudha Vaddadi	Former Scientist B, Geological Survey of India
Dr. Kantimati Kulkarni	Scientist C, Agharkar Research Institute, Pune
Dr. Sanjeev Nalavade	Head, Department of Geography, Fergusson College, Pune

12. Percentage of Lectures delivered and practical classes handled (programme wise) by temporary faculty: Undergraduate

Year	Total Workload of Department	Total Workload of Permanent Faculty	Lectures delivered by Temporary Faculty		Practical Classes handled by Temporary Faculty	
			Number	Percentage (%)	Number	Percentage (%)
2010-2011	180	120	8	4.5	52	28
2011-2012	180	120	8	4.5	52	28

2012-2013	180	120	8	4.5	52	28
2013-2014	180	120	8	4.5	52	28
2014-2015	180	120	8	4.5	52	28

Postgraduate

Year	Total Workload of Department	Total Workload of Permanent Faculty	Lectures delivered by Temporary Faculty		Practical Classes handled by Temporary Faculty	
			Number	Percentage (%)	Number	Percentage (%)
2010-2011	72	32	24	66	12	33
2011-2012	72	32	24	66	12	33
2012-2013	72	32	24	66	12	33
2013-2014	72	32	24	66	12	33
2014-2015	72	32	24	66	12	33

13. Student-Teacher Ratio (programme wise):

Level	Class	Number of Teachers	Student-Teacher Ratio
Undergraduate	B.Sc. Students Strength (F.Y./4 + S.Y./3 + T.Y./1)	10	188/10 = 19:1
	(285/4 + 154/3 + 66/1) = 188		
Postgraduate	M.Sc. Students Strength (Part-I + Part-II)	2	47/2 = 23:1
	47		

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Number of Support Staff (Lab Assistant and Lab Attendant)		
	Sanctioned	Filled
Lab Assistants	02	01
Lab Attendants	06	06

15. Qualification of teaching faculty with D.Sc./D.Litt./Ph.D./M.Phil./PG: PG – 07; Ph.D. – 05

16. Number of faculty with ongoing projects from a) National
b) International funding agencies and grants received: 01

Duration	Name of Faculty	Title of Project	Name of Funding Agency	Grant Received (Rs.)	Status (Minor/Major)
2015-2017	Dr. Ravindrasinh Pardeshi	Petrography and Phytolith studies of the Tertiary Formation of Bikaner-Nagaur Basin, Western Rajasthan, India	UGC	2,70,000/-	Minor

17. Departmental Projects funded by DST-FIST; UGC, DBT, ICSSR, etc., and total grants received:

Title of Project	Funding from DST-FIST/ UGC XI Plan, XII Plan, DBT, Any Other	Grant Received (Rs.)	
Project on Geology of Afghanistan	UGC-CPE (2011-2012)	2,100/-	
Poster on Scope of Geology and its importance		2,250/-	
Project on Stratigraphical and geographical occurrences of certain rocks in India		6,030/-	
Study of fossil coralline algae from the Quilon Formation of Kerala, India		10,000/-	
Study of fossil coralline algae from the Quaternary sediments of Dwarka-Okha, Saurashtra, Gujarat, India		10,000/-	
Geological photo and poster exhibits	UGC-CPE (2012-2013)	7,000/-	
Geological mapping and study of thin sections of a gabbroic intrusive body at Khopoli, Raigad		4,650/-	
Microfossil analysis of waterfall calc-tufa deposit at Bhuleshwar Ghat section, Pune, Maharashtra. A case study for palaeo-environmental implications	UGC-CPE (2013-2014)	10,000/-	
Fossil Diatom study of Mastani Lake sediments, Diveghat, Pune		10,000/-	
Theme based posters on various topics		10,000/-	
Analysis and identification of an unknown mineral from Bhuleshwar Ghat, Pune	UGC-CPE (2014-2015)	10,000/-	
Texture and structure charts for igneous, sedimentary and metamorphic rocks		5,000/-	
Preparation of theme based posters		5,000/-	
Analysis and characterisation of cavity minerals found in road sections along NH-4 in Pune		20,000/-	
Isotope geochemistry and micropalaeontology of sediments of Armada Reef section, Dwarka-Okha, India		20,000/-	
Petrography of Rhyolite flows at Dongri Village, Navi Mumbai, Maharashtra		UGC-BSR-II	5,000/-
Petrography of Trachyte at Gorai Village, Navi Mumbai, Maharashtra		UGC-BSR-II	5,000/-
Petrography of Gabbro at Navi Mumbai, Maharashtra	UGC-BSR-II	5,000/-	
Geochemistry of GPB flow at Mandhol dam, Ahmednagar District, Maharashtra	UGC-BSR-II	5,000/-	

Mapping and study of outcrop patterns of GPB flow at Mandhol dam, Ahmednagar District, Maharashtra	UGC-BSR-II	5,000/-
Petrography of GPB flow at Mandhol dam, Ahmednagar District, Maharashtra	UGC-BSR-II	5,000/-
Total	21 Projects	1,62,030/-

18. Research Centre/facility recognized by the University:
Recognition by SPPU, Pune; Letter No. CA/857 dated 22/04/2013

19. Publications:

Name of Faculty	Papers			Books	Total Publications	Impact Factor	Total Citation	h-Index	SNIP	SJR
	Inter -national	National	Proceedings	National						
Dr. Ravindrasinh Pardeshi	3	-	3	1	7	1.26	-	-	-	-
Dr. Tanuja Marathe	1	3	1	-	5	-	-	-	-	-
Dr. PradeepKumar Sarkar	9	3	1	3	16	7.95	13	2	2	2
Dr. Shyam Mude	9	6	-	-	15	3.64	29	4	4	4
Mr. Devdutt Upasani	-	-	2	1	3	-	2	1	1	1
Mr. Aneesh Soman	1	-	-	-	1	3.47	16	2	-	-
Total	23	12	7	5	47	16.33	60	9	7	7

20. Areas of Consultancy and Income generated: Nil

21. Faculty as members in National committees b) International Committees c) Editorial Boards:

Name of Faculty Members	National Committee/ International Committee/Editorial Board	Any other Committee/ Board
Dr. Ravindrasinh Pardeshi	i. Planning Commission, Ministry of Human Resource Development (HRD)- Working Group on Higher Education for the XII Five Year Plan ii. Committee for Assessment of Universities and Colleges with Potential for Excellence, University Grants Commission, New Delhi iii. Department of Biotechnology, STAR College Scheme, Government of India, Ministry of Science and Technology, New Delhi iv. Member, Expert Committee for Assessment of proposals under the scheme of construction of women's Hostel at UGC-SERO, Hyderabad v. Member, Expert Committee, Grant of Autonomous Status to St. Teresa's College, Ernakulum, Kerala vi. National Assessment and Accreditation Council (NAAC), Bangalore	Member of Academic Committee, International Centre, SPPU, Pune

	vii. Member, Australian Governments New Colombo Plan and Australia-India Student Mobility viii. Member, Blended B.Sc. Programme, SPPU, Pune and Melbourne University.	
Dr. Ram Mache	-	i. Chairman, Board of Studies in Geology, SPPU, Pune ii. Member, Academic Council, Faculty of Science and Research and Recognition Committee
Dr. Tanuja Marathe	-	i. Member, Board of Studies in Geology, SPPU, Pune ii. Member, Research Advisory Board of the Gemmological Institute of India since January 2014
Dr. Pradeep Sarkar	-	Member - Maharashtra State Board of Secondary and Higher Secondary Education - Geology

22. Student projects:

- a) Percentage of students who have done in-house projects including inter departmental/programme:

Academic Year	Number of In-House Projects (UGC-CPE, UGC-BSR and PG Projects)	% of students involved against number of students enrolled for class
2010-2011	-	-
2011-2012	UG - 03, PG - 02	UG - 31%, PG - 9%
2012-2013	UG - 02	UG - 3%
2013-2014	UG - 01, PG - 02	UG - 9%, PG - 8%
2014-2015	UG - 10, PG - 02	UG - 37%, PG - 11%

- b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/ Industry/other agencies:

Academic Year	Number of Outside Projects (Research Labs, Industry, NGO's etc.)	% of students involved against number of students enrolled for class
2010-2011	04	PG - 19%
2011-2012	10	PG - 40%
2012-2013	11	PG - 46%
2013-2014	08	PG - 33%
2014-2015	06	PG - 27%

23. Awards/Recognitions received by faculty and students:

Title of Award/Recognition	Name of Faculty/Student	Year
Faculty		
Best Teacher Award, Pune Municipal Corporation	Dr. Ravindrasinh Pardeshi	2010
Shiksha Ratna Puraskar conferred upon by 'India International Friendship Society' in 2011	Dr. Pradeep Sarkar	2011
Shiksha Ratna Puraskar conferred upon by 'India International Friendship Society' in 2012	Dr. Shyam Mude	2012

Bharat Jyoti Puraskar conferred upon by 'India International Friendship Society' in 2013	Dr. Tanuuja Marathe	2013
Students		
Prof. K.V. Kelkar Memorial Award	C. Aditya	2010
Prof. K.V. Kelkar Memorial Award	Gaurav Athawale	2011
Prof. K.V. Kelkar Memorial Award	Neha Bhave	2012
Prof. K.V. Kelkar Memorial Award	Ershad Rizvi	2012
Prof. K.V. Kelkar Memorial Award	Shrikant Jadhav	2013
Prof. K.V. Kelkar Memorial Award	Pritam Sharma	2013
Prof. K.V. Kelkar Memorial Award	Prathamesh Pawar	2014

24. List of eminent academicians and scientists/visitors to the department:

- Padmabhushan Prof. K. S. Valdiya, Former Vice Chancellor, Kumaon University, Nainital
- Prof. K. B. Powar, Chancellor, D. Y. Patil Vidhyapeeth, Pune and Former Secretary General, AIU
- Shri. R. H. Sawkar, Secretary, Geological Society of India, Bangalore
- Prof. Pradeep Kundal, President, Gondwana Geological Society, India
- Prof. S. Das, Indian Institute of Technology, Kharagpur
- Dr. M. R. Bhutiyani, Associate Director, SASE RDC, Chandigarh
- Dr. Satish J. Patel, M. S. University of Baroda, Vadodara
- Dr. R. Venkatachalapathy, Periyar University, Salem
- Dr. M. Thakkar, University of Kachchh, Kachchh
- Prof. (Dr.) P. K. Kathal, Dr. Harisingh Gour University, Sagar
- Dr. S. M. Hussain, University of Bangalore, Bangalore
- Dr. Makrand Bodas, Superintending Geologist, Geological Survey of India
- Prof. Nitin R. Karmalkar, Head, Dept. Of Environmental Science, SPPU, Pune
- Dr. Raymond Duraiswami, Assistant Professor, Dept. of Geology, SPPU, Pune
- Dr. Makrand G. Kale, Associate Professor, Dept. of Geology, SPPU
- Prof. Vishwas S. Kale, Head, Dept. Of Geography, SPPU, Pune
- Dr. Himanshu Kulkarni, Executive Director and Hon. Secretary, Advanced Centre for Water Resources Development and Management, Pune
- Prof. S. S. Thigale, Former Head, Dept. of Geology, SPPU, Pune
- Dr. Vivek Chitale, Head Petrophysicist, Field Studies, Subsurface Technology, BP America Inc.
- Dr. Kantimati Kulkarni, Scientist, Agharkar Research Institute, Pune
- Dr. V. D. Borkar, Emeritus Scientist, Agharkar Research Institute, Pune
- Dr. P. B. Jadhav, Head, Department of Petroleum Engineering, MIT Pune

- Dr. Rajani Panchang, DST Woman Scientist, Agharkar Research Institute, Pune
- Damian Howells, Senior Teaching Fellow and Dr. Philip Murphy, Teaching Fellow from school of Earth and Environment, University of Leeds
- S. P. Bagade, Ret. Additional Director, GSDA on IWRDM
- Prof. S. J. Sangode, Head, Dept. of Geology, SPPU, Pune
- Shri. S. Khandale, Director, Groundwater Surveys and Development Agency, Pune
- Dr. Sudha Vaddadi, Retd. Senior Geologist, GSI
- Dr. Lalitkumar K. Kshirsagar, Principal, MIT College of Engineering, Pune
- Dr. Vivek Kale, Head, GEOSPATIAL, Kalyani Global Engineering Pvt. Ltd., Pune
- Dr. Anand Kale, Consultant, Bharat Petro Resources Ltd.
- Mr. Harish Datir, Petrophysicist, Schlumberger, Aberdeen, Scotland

25. Seminars/Conferences/Workshops organized & the source of funding:

Year	Title of Seminar/ Conference/Workshop	Funding Agency	Amount Sanctioned (Rs.)
2013-2014	National Workshop on emerging Trends in Stratigraphy	DST	75,000/-
2013-2014	International Conference on Recent Developments in Stratigraphy (ICRDS) - 2013	CSIR INSA SPPU	50,000/- 20,000/- 1,00,000/-
2014-2015	Workshop on T.Y. B.Sc. Syllabus Revision	BCUD – SPPU	24,000/-

26. Student profile programme/course wise: Undergraduate

Academic Year	Applications Received	Selected	Enrolled		Pass percentage (%)
			M	F	
2010-2011	50	50	31	19	94
2011-2012	36	36	24	12	95
2012-2013	70	66	45	21	98
2013-2014	56	56	35	21	95
2014-2015	80	66	39	27	Results awaited

Postgraduate

Academic Year	Applications Received	Selected	Enrolled		Pass percentage (%)
			M	F	
2010-2011	58	25	17	8	100
2011-2012	84	26	17	9	100
2012-2013	80	24	15	9	96
2013-2014	78	24	16	8	100
2014-2015	90	25	16	9	Results awaited

27. Diversity of Students: Undergraduate

Academic Year	% of students from the same state	% of students from other states	% of students from abroad
2010-2011	90	8	2
2011-2012	89	6	5
2012-2013	94	5	1
2013-2014	73	25	2
2014-2015	92	8	0

Postgraduate

Academic Year	% of students from the same state	% of students from other states	% of students from abroad
2010-2011	84	8	8
2011-2012	96	4	0
2012-2013	71	29	0
2013-2014	100	0	0
2014-2015	76	24	0

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.?: NET – 04, ONGC - 01, UPSC – 03, MPSC – 01, Defence - 01

29. Student progression:

Student progression	Against % enrolled
UG to PG	80%
PG to M.Phil.	-
PG to Ph.D.	5%
Ph.D. to Post-Doctoral	-
Employed	
• Campus selection	-
• Other than campus recruitment	80%
Entrepreneurship/Self-employment	20%

30. Details of Infrastructural facilities:

- Library (Departmental Library): Area – 180 sq.ft.; Number of Books - 850; Number of Journals Subscribed – 03
- Internet facilities for Staff & Students:
Computers with Internet – 14
- Classrooms/Laboratories with ICT facility – 02 (Laboratory) + 02 (Classrooms)
- Laboratories: Laboratory - I: Geochemistry Lab – 24 sq.ft., Laboratory - II: Remote Sensing Laboratory/GIS Lab – 30.82 sq.ft.

31. Number of students receiving financial assistance from college, university, government or other agencies:
- An average of 60% students get financial assistance from Central/ State Government agencies in the form of Scholarship/Freeship
32. Details on student enrichment programmes (special lectures/ workshops/seminar) with external experts:

Year	Title/Type of Programme	Names of Resource Person(s) (External)
2010-2011	Workshop - 'Mapping Techniques in Deccan Volcanic Province'	Dr. Makarand Bodas, Senior Geologist, GSI Pune
	Field Training - 'Geological Mapping in Sindhudurg area'	Geological Survey of India, Operations-Maharashtra, Nagpur
	Guest Lecture – 'Career Opportunities in Petroleum Industries after M.Sc. Geology'	Mr. Harish Datar, Petrophysist, Schlumberger, Aberdeen, Scotland
	Workshop - Techniques of Watershed Development and Management, Ground Water Budgeting etc.	Groundwater Survey and Development Agency, Shivaji Nagar, Pune
	Geological and Structural mapping at Chitradurga, Karnataka	Dr. Balchandradu and Dr. Madhusudhanan, Senior Geologist, FTC, Chitradurga, Karnataka
2011-2012	Guest Lecture – 'Scope of research in Hydrogeology'	Dr. Himanshu Kulkarni, Executive Director and Hon. Secretary, ACWADAM
	Workshop – 'Mapping Techniques in Deccan Volcanic Province'	Dr. Makarand Bodas, Senior Geologist, GSI Pune
	Guest Lectures - Under Industry-Institute Interaction Cell	Dr. Makrand Bodas, Dr. Himanshu Kulkarni, Dr. Tapan Chatterjee and Dr. Amogh Chitrao
	Special Lecture Series - Preparation of NET/ SET examination under UGC-XI Plan	Prof. N. R. Karmalkar, Dr. Raymond Duraiswami, Dr. N. C. Ghosh, Dr. M. G. Kale and Prof. Vishwas S. Kale
	Special workshop - English as Spoken Language	Shri. Aneesh Soman
2012-2013	Workshop – 'Mapping Techniques in Deccan Volcanic Province'	Dr. A. B. Sabale, Director, GSI Pune and Dr. Sudha Vaddadi, Retired Senior Geologist, GSI
	Guest Lecture - 'Opportunities for students in different Ground Water Programmes'	Dr. Himanshu Kulkarni, Executive Director and Hon. Secretary, ACWADAM
	Guest Lecture - Geological Applications in Infrastructural Activities	Shri. Amol Patil, Geologist, Fugro Ltd.
	Guest Lecture – 'Carrer opportunities in Geotechnical field'	Shri. Deepak Kulkarni, Geologist, Monarch Surveyors and Engineering Consultants Pvt. Ltd.
	Workshop - 'Thesis Writing'	Dr. Kantimati Kulkarni, Scientist, ARI Dr. V. D. Borkar, Emeritus Scientist, ARI, Pune Dr. P. B. Jadhav, Head, Department of Petroleum Engineering, MIT Pune Dr. Rajani Panchang, DST Woman Scientist, ARI Pune

	Two days University level workshop - 'Petroleum Geology'	Dr. Vivek Chitale, Head Petrophysicist, Field Studies, Subsurface Technology, BP America Inc.
2013-2014	Workshop – 'Mapping Techniques in Deccan Volcanic Province'	Dr. Sudha Vaddadi, Retired Senior Geologist, GSI, Pune.
	Guest lecture - IWRDM (Integrated Water Resource Development and Management) approach to improve rainfall use	Mr. S. P. Bagade, Retired Additional Director, GSDA
	Special guest lecture - Climate Change	Dr. Damian Howells, Senior Teaching Fellow, School of Earth and Environment, University of Leeds
	Special guest lecture - 'Seismic Refraction Method and Interpretation of Data'	Dr. Nirmalya Ghosh, Scientist, Central Water and Power Research Station, Pune
	Two Days Workshop - Structural Geology and its Applications in Field	Shri. Anay Shende, Ex-Scientist C, ISRO
2014-2015	Workshop on 'Mapping Techniques in Deccan Volcanic Province'	Dr. Sudha Vadadi, Former Senior Geologist, GSI, Pune
	Workshop on 'Soft Skill Development'	Ms. Sweta Shailli, Visiting Faculty
	Special Lecture on 'Exploration Techniques in Hydrogeological Studies'	Shri. Smitesh Talawadkar, Tera Consultancy, Mumbai
	Special Lecture on 'Late Holocene Palaeoclimate and Palaeolandscape Reconstruction (of Central Balkans): Palynological Approach'	Ms. Charuta Kulkarni, City University of New York
	Special Lecture on 'Geochemical Analysis and its Applications in Geosciences'	Dr. Kirtikumar R. Randive, Assistant Professor, Department of Geology, RTM University, Nagpur

33. Teaching methods adopted to improve student learning:

- Use of ICT, internet facilities
- Special Guest Lectures, Case Studies and Group Discussions
- Co-curricular Educational exhibitions and fests
- Field training
- Extensional activities like Research, Assignments.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

- Dr. Pradeep Sarkar and Shri. Devdutt Upasani: Two days field training to officers of ONGC on Deccan trap features and Quaternary deposits
- Shri. Devdutt Upasani: Involved in 'Deep Drilling Project' at Koyana, Maharashtra, as an academic extension activity
- Shri. Devdutt Upasani: Orientation lecture in Geology for graduate volunteers of PUGMARKS, India
- Shri. Aneesh Soman: Lecture on Geology and its applications to students of MKCL
- Lecture on Georichness of Pune city in Pune Biennale 2013, public event arranged by Bharati Vidyapeeth and PMC.

35. SWOC analysis of the department and Future plans:

Strengths:	
1.	One of the best geological museums in India, hosting various best and rare specimens of minerals, rocks, fossils etc from different parts of India and world
2.	Very strong bonding and rapport between teachers and students
3.	Well-equipped UG laboratories
4.	Very good mineralogical and petrological laboratories
5.	Good research culture amongst UG and PG students
6.	Consistently high student strength
7.	Special efforts for arranging very good field trips and imparting best field knowledge to students
8.	Consistently arranging Guest lectures, Workshops, Seminars and Conferences, placement activities - since 2007
9.	Publishing e-magazine 'Conglomerate' by Geology Association.
Weaknesses:	
1.	Shortage of space for PG
2.	Special Infrastructure for Instrumentation.
Opportunities:	
1.	Research and Consultancy to be enhanced in the areas of Petrology, Gemmology, Hydrogeology, Watershed development and Management, Palaeontology and Geo-informatics
2.	Collaborations with Corporate, Government and Research Institutes.
Challenges:	
1.	Placement
2.	To elevate the integrated understanding of the subject required to face the challenges in problem solving.

Future Plans

- Field based learning approach of students from F.Y. to T.Y. B.Sc. Geology by conducting various Field Based Workshops
- To organize Syllabus Revision Workshop for T.Y. B.Sc. Geology
- To develop linkage and collaboration with different organizations from Government and Private sector for research and placements.



1. Name of the Department: **Mathematics**
2. Year of Establishment: 1885
3. Names of Programmes/Courses offered: B.Sc.
M.Tech (Industrial Mathematics with Computer Applications)
4. Names of Interdisciplinary Courses and department/ units involved:
Nil
5. Annual/Semester/Choice based Credit system (Programme Wise):
B.Sc. (F.Y.) – Annual, B.Sc. (S.Y. and T.Y.) – Semester, M.Tech-I and
M.Tech-II – CBCS, M.Tech-III – Annual

6. Participation of the department in the courses offered by other dept

Title of Course	Topic(s)	Names of Teachers
M.A. Courses	Cyber Security	Shri. Ankur Shukla
B.Sc. Animation	Elements of Information Technology	
F.Y. B.Sc. Animation	Introduction to programming language	
B. Voc.	Computer Literacy	
M.Sc. Courses	Cyber Security	Smt. Purva Ghatpande
M.Sc. Computer Science and M.C.A.	Introduction to SciLab	Shri. Hrishikesh Khaladkar
M.C.A.	Recurrence Relation	Shri. Manish Aaglave

7. Courses in collaboration with other Universities, Industries, Foreign Institutions, etc.: Nil
8. Details of courses/programmes discontinued (if any) with reasons: Nil

9. Number of Teaching Posts:

Undergraduate	Sanctioned	Filled
Associate Professors	01	01
Assistant Professors	05	05

Post Graduate	Sanctioned	Filled
Assistant Professors	04	01
Assistant Professors (Temporary)	-	03

10. Faculty profile: Undergraduate

Name	Qualification	Designation	Specialization	Experience (Years)
Dr. Vinaykumar Acharya	M.Sc., Ph.D.	Head and Associate Professor	Number Theory	22
Shri. Anant Nanajkar	M.Sc.	Assistant Professor	Algebra, Analysis	22
Shri. Manish Aaglave	M.Sc.	Assistant Professor	Lattice Theory	08
Shri. Nanasahab Phatangare	M.Sc.	Assistant Professor	Fluid Dynamics	08

Shri. Sunil Howal	M.Sc.	Assistant Professor	Integral Transforms	06
Shri. Mayur Kshirsagar	M.Sc.	Assistant Professor	Algebra	03

Postgraduate

Name	Qualification	Designation	Specialization	Experience (Years)
Smt. Vrushali Limaye	M.Sc.	Assistant Professor	Applied Mathematics	08
Smt. Purva Ghatpande	M.Tech (IMCA)	Assistant Professor	Computer Networks	06
Shri. Hrishikesh Khaladkar	M.Sc.	Assistant Professor	Applied Mathematics	04
Shri. Ankur Shukla	M.Tech (IMCA)	Assistant Professor	Operating Systems	03

11. List of Senior Visiting Faculty:

Name of Visiting Faculty	Institution/Organization
Dr. V. G. Tikekar	Former Professor, Department of Mathematics, IISC, Bangalore
Dr. S. A. Katre	Professor, Department of Mathematics, SPPU, Pune
Shri. Sunil Chinchankar	Former Consultant MBT, Pune

12. Percentage of Lectures delivered and practical classes handled (programme wise) by temporary faculty: Undergraduate

Year	Total Workload of Department	Total Workload of Permanent Faculty
2010-2011	122	122
2011-2012	122	122
2012-2013	122	122
2013-2014	122	122
2014-2015	122	122

Postgraduate

Year	Total Workload of Department	Total Workload of Permanent Faculty
2010-2011	88	88
2011-2012	88	88
2012-2013	88	88
2013-2014	88	88
2014-2015	88	88

13. Student-Teacher Ratio (programme wise):

Level	Class	Number of Teachers	Student-Teacher Ratio
Undergraduate	B.Sc. Students Strength (F.Y./4 + S.Y./3 + T.Y./1)	6	278/6 = 46:1
	(489/4 + 305/3 + 55/1) = 278		
Postgraduate	M.Tech. Students Strength (Part-I + Part-II)	4	57/4 = 14:1
	57		

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: Nil
15. Qualifications of teaching faculty with D.Sc./D.Litt./Ph.D./M.Phil./PG: PG – 09, Ph.D. – 01
16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: 02

Duration	Name of Faculty	Title of Project	Name of Funding Agency	Grant Received (Rs.)	Status (Minor/Major)
2014-2016	Shri. Manish Aaglave	A study of topological aspects of lattice implication algebra	BCUD – SPPU	1,65,000/-	Minor
2014-2016	Shri. Nanasaheb Phatangare	Study or ring of integers in algebraic number field	BCUD – SPPU	1,10,000	Minor

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received:

Title of Project	Funding from DST-FIST/ UGC XI Plan, XII Plan, DBT, Any Other	Grant received (Rs.)
Fundamental theorem of Algebra	UGC-CPE	5,000/-
UGC-BSR-II Scheme Projects (06)	UGC-BSR	30,000/-

18. Research Centre/facility recognized by the University: Nil

19. Publications:

Name of Faculty	Papers		Books	Total Publications
	International	Proceedings	National	
Smt. Vrushali Limaye	-	1	-	1
Smt. Purva Ghatpande	1	-	-	1
Shri. Nanasaheb Phatangare	-	-	14	14
Total	1	1	14	16

20. Areas of Consultancy and Income generated: Nil

21. Faculty as members in a) National committees b) International Committees c) Editorial Board:

Name of Faculty Members	National Committee/International Committee/Editorial Board	Any other Committee/ Board
Dr. Vinaykumar Acharya	Regional Coordinator of Regional Mathematical Olympiad (RMO)	-

22. Student projects:
- Percentage of students who have done in-house projects including inter departmental/programme: UGC-CPE – 01; PG – 100%
 - Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/ Industry/other agencies: PG – 100%
23. Awards/Recognitions received by faculty and students: Nil
24. List of eminent academicians and scientists/visitors to the department:
- Dr. V. G. Tikekar – Former Head, Department of Mathematics, IISC, Bangalore
 - Dr. Sharad Katre – Head, Department of Mathematics, SPPU, Pune
 - Dr. Rohit Holkar - Visiting Professor, Brazil University
 - Shri. Jitendra Fransis Sadangi - Research Scholar, Defence Institute of Advanced Technology
 - Shri. Sunil Chinchankar – Former Consultant, MBT, Pune.
25. Seminars/Conferences/Workshops organized & the source of funding: Nil

26. Student profile programme/course wise: Undergraduate

Academic Year	Applications received	Selected	Enrolled		Pass percentage (%)
			M	F	
2010-2011	41	31	22	09	35
2011-2012	47	37	18	19	51
2012-2013	46	36	16	20	67
2013-2014	53	43	27	16	58
2014-2015	55	54	40	14	Results Awaited

Postgraduate

Academic Year	Applications received	Selected	Enrolled		Pass percentage (%)
			M	F	
2010-2011	1681	25	17	09	93
2011-2012	1795	24	13	11	88
2012-2013	1291	23	13	10	75
2013-2014	659	19	12	07	100
2014-2015	629	19	09	10	Results Awaited

27. Diversity of Students: Undergraduate

Academic Year	% of students from the same	% of students from other states	% of students from abroad
2010-2011	100	-	-
2011-2012	97	3	-
2012-2013	97	3	-
2013-2014	98	2	-
2014-2015	98	2	-

Postgraduate

Academic Year	% of students from the same	% of students from other states	% of students from abroad
2010-2011	100	-	-
2011-2012	100	-	-
2012-2013	100	-	-
2013-2014	100	-	-
2014-2015	100	-	-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.: NET – 01

29. Student progression:

Student progression	Against % enrolled
UG to PG	28
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed	
• Campus selection	100% (PG)
• Other than campus recruitment	
Entrepreneurship/Self-employment	-

30. Details of Infrastructural facilities:

- Library (Departmental Library): Area – 600 sq.ft.; Number of Books – 5000; Number of Journals Subscribed – Nil
- Internet facilities for Staff & Students: Computers with Internet – 09
- Classrooms with ICT facility – 01
- Laboratories: Laboratory – I (T.Y./PG) - 850 sq.ft.

31. Number of students receiving financial assistance from college, university, Government or other agencies:

An average of 60% students get financial assistance from Central/State Government agencies in the form of Scholarship/Freeship

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts:

Year	Title/Type of Programme	Names of Resource Person(s) (External)
2010-2011	To Machine Learning Techniques: Supports Vector Machines and Neural Networks	Smt. Uttara Naiknimbalkar
2011-2012	Fibonacci numbers, Golden Ratio	Dr. Sharad Sane, Department of Mathematics, IIT-Bombay
2012-2013	Hardy-Littlewood, Ramanujan Circle Method	Professor Jean Marc Deshouillers, École Polytechnique
2014-2015	How To Study Mathematics	Dr. V. G. Tikekar
2014-2015	Metric Spaces	Dr. Rohit Holkar
2014-2015	Complete Metric Spaces	Shri. Mayuresh Londhe

2014-2015	Project Guidance	Shri. Sunil Chinchankar
2014-2015	IIT Preparation	Shri. Jitendra Fransis Sadangi
2014-2015	Guidelines to prepare for IIT	Shri. Mayuresh Londhe – IIT, Chennai

33. Teaching methods adopted to improve student learning:

- Interactive sessions
- Games and Quizzes
- Presentation and Project based Learning
- Use of Mathematical Software like Mathematics, Scilab, Matlab.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities: Nil

35. SWOC analysis of the department and Future plans:

<p>Strengths:</p> <ol style="list-style-type: none"> 1. Good stock of books in departmental library 2. Department is providing books in PDF Format on the intranet.
<p>Weaknesses:</p> <ol style="list-style-type: none"> 1. Low Result percentage 2. Lack of Research activities 3. Very few seminars/invited guests
<p>Opportunities:</p> <ol style="list-style-type: none"> 1. Career oriented courses such as courses in Financial Mathematics could be designed, which would be beneficial for students as far as career avenues are concerned
<p>Challenge:</p> <ol style="list-style-type: none"> 1. Improving research output

Future Plans

- Conduct Teachers' Training Programme for Mathematics
- To start a Problem Corner - which would help in advanced thinking about mathematical concepts



1. Name of the Department: **Microbiology**
2. Year of Establishment: Undergraduate - 2004
Postgraduate - 2007
3. Names of programmes/courses offered: B.Sc. and M.Sc.
4. Names of Interdisciplinary Courses and department/units involved:
Nil
5. Annual/Semester/Choice based Credit system (programme wise):
B.Sc. (F.Y.) – Annual, B.Sc. (S.Y. and T.Y.) – Semester,
M.Sc. – CBCS

6. Participation of the department in the courses offered by other departments:

Title of Course	Topic(s)	Names of Teachers
B.Sc. Environmental Sciences	Synthesis of biological molecules	Smt. Meghana Kulkarni
B.Sc. Environmental Sciences	Role of water, enzyme metabolism	Smt. Meghana Kulkarni
B.Sc. Microbiology H. V. Desai College, Pune	Introduction to the microbial world	Dr. Suneeti Gore
M.Sc. Microbiology (Dr. B.A.M.U., Sub-campus - Osamanabad)	GMP and GLP	Dr. Shivaji Waghmare
B.Sc. Microbiology (S. B. Z. College, Barshi – Affiliated to Solapur University, Solapur)	Defence mechanisms in humans	Dr. Shivaji Waghmare

7. Courses in collaboration with other Universities, Industries, Foreign Institutions, etc.: Nil
8. Details of courses/programmes discontinued (if any) with reasons: Nil
9. Number of Teaching Posts:

Undergraduate/Post Graduate	Sanctioned	Filled
Assistant Professors	10	04
Assistant Professors (Temporary)	-	08

10. Faculty profile:

Name	Qualification	Designation	Specialization	Experience (Years)
Smt. Meghana Kulkarni	M.Sc.	Head and Assistant Professor	Biochemistry	15
Dr. Suneeti Gore	M.Sc., Ph.D.	Assistant Professor	Fermentation technology	18
Dr. Shivaji Waghmare	M.Sc., Ph.D.	Assistant Professor	Applied Microbiology	08
Smt. Gauri Bhawkar	M.Sc.	Assistant Professor	Taxonomy	05
Smt. Vidula Bindu	M.Sc.	Assistant Professor	Fermentation technology	17

Smt. Saylee Darvekar	M.Sc.	Assistant Professor	Immunology and Molecular Biology	12
Smt. Manaswi Gurjar	M.Sc.	Assistant Professor	Medical and Pharmaceutical Microbiology	11
Smt. Anuja Oke	M.Sc.	Assistant Professor	Genetics and Molecular Biology	03
Smt. Vrushali Patil	M.Sc.	Assistant Professor	Environmental Microbiology	06
Smt. Rutuja Joshi	M.Sc.	Assistant Professor	Statistics	07
Smt. Kritika Padmanabhan	M.A.	Assistant Professor	Soft Skills Development	06
Smt. Zenobia Merchant	M.A., B.Ed.	Assistant Professor	Language Skills Development	17

11. List of Senior Visiting Faculty:

Name	Institution/Organization
Dr. Bhalchandra D. Bhole	Head and Associate Professor, Abasaheb Garware College, Pune
Dr. Arvind A. Natu	Senior Scientist, IISER, Pune
Smt. Srividya Ravi	Patent Consultant, G. Nair and Associates, Mumbai
Shri. Vasudeo G. Kshirsagar	Associate Professor, Abasaheb Garware College, Pune

12. Percentage of Lectures delivered and practical classes handled (programme wise) by temporary faculty:

Year	Total Workload of Department	Total Workload of Permanent Faculty	Lectures delivered by Temporary Faculty		Practical Classes handled by Temporary Faculty	
			Number	Percentage (%)	Number	Percentage (%)
2010-2011	194	194	-	-	-	-
2011-2012	213	213	-	-	-	-
2012-2013	217	217	-	-	-	-
2013-2014	220	210	10	13	-	-
2014-2015	232	204	08	10	20	13

13. Student-Teacher Ratio (programme wise):

Level	Class	Number of Teachers	Student-Teacher Ratio
Undergraduate	B.Sc. Students Strength (F.Y./4 + S.Y./3 + T.Y./1)		
	(94/4 + 73/3 + 72/1) = 119	7	119/7 = 17:1
Postgraduate	M.Sc. Students Strength (Part-I + Part-II)		
	48	3	48/3 = 16:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Number of Support Staff (Lab Assistant and Lab Attendant)		
	Sanctioned	Filled
Lab Assistants	02	01
Lab Attendants	04	03

15. Qualification of teaching faculty with D.Sc./D.Litt./Ph.D./M.Phil./ PG: PG – 10; Ph.D. – 02.

17. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: 02

Duration	Name of Faculty	Title of Project	Name of Funding Agency	Grant Received (Rs.)	Status (Minor/Major)
2012 - 2014	Smt. Meghana Kulkarni and Smt. Vidula Bindu	Studies on improvement of alcohol tolerance of yeast for bio-fuel production	BCUD-SPPU	2,70,000/-	Minor
2015 - 2017	Dr. Suneeti Gore and Smt. Saylee Darvekar	Reduction in levels of cholesterol and triglyceroids using probiotics	BCUD-SPPU	1,80,000/-	Minor

17. Departmental Projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received:

Title of Project	Funding from DST - FIST/ UGC XI Plan, XII Plan, DBT, Any Other	Grant received (Rs.)
Funding for infrastructural improvement	DST-FIST	9,85,378/-
DBT – STAR College Scheme	DBT	7,00,000/-

18. Research Centre/facility recognized by the University: Nil

19. Publications:

Name of Faculty	Papers		Books	Total Publications	Impact Factor	Total Citation	h-Index
	International	National	National				
Dr. Suneeti Gore	1	2	-	3	2.65	-	-
Dr. Shivaji Waghmare	3	1	1	5	1.58	14	1
Smt. Sayali Darvekar	1	-	-	1	-	-	-
Total	5	3	1	9	4.23	14	1

20. Areas of Consultancy and Income generated:

Nature of Consultancy	Name of the Industry/NGO/Institute or any Other	Income Generated, if any (Rs.)
Solapur Municipal water sample potability analysis	Solapur Municipal Corporation	Honorary consultancy
Katraj lake water sample potability analysis	Katraj lake	Honorary consultancy
Antimicrobial activity of pharmaceutical samples	Samples given by Pharmacy College Students	Honorary consultancy

21. Faculty as members in a) National Committees b) International Committees c) Editorial Boards:

Name of Faculty Members	National/International Committee/Editorial Board	Any other Committee/Board
Smt. Meghana Kulkarni	Executive Committee Member - Association of Microbiologists of India	-
Dr. Suneeti Gore - Member	Association of Microbiologists of India (National) American Society for Microbiology (International)	-
Dr. Shivaji Waghmare - Member	Microbiologist Society of India, Association of Microbiologists of India, Universal Journal of Environmental Research and Technology	-

22. Student projects:

a) Percentage of students who have done in-house projects including inter departmental/programme:

Academic Year	Number of In-House Projects (UGC-CPE, UGC-BSR and PG Projects)	% of students involved against number of students enrolled for class
2010-2011	12	80%
2011-2012	07	48%
2012-2013	05	43%
2013-2014	07	58%
2012-2013	UGC-CPE (UG) - 02 UGC-CPE (PG) - 02	6% 8%
2013-2014	UGC-CPE (UG) - 02 UGC-CPE (PG) - 02	6% 8%
2014-2015	UGC-CPE (UG) - 01 UGC-CPE (PG) - 03	6% 17%

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/ Industry/other agencies:

Academic Year	Number of In-House Projects (Research Labs, Industry, NGO's etc.)	% of students involved against number of students enrolled for class
2010-2011	03	20%
2011-2012	07	51%
2012-2013	06	57%
2013-2014	05	42%
2014-2015	08	36%

23. Awards/Recognitions received by faculty and students:

Title of Award/Recognition	Name of Faculty/Student	Year
Sir Ratan Tata Trusts Scholarship for meritorious students	Siddhi Patankar Shweta Gopalkrishnan Anushka Rege Ashmika Korivi	2012-2013
Lila Poonawala Foundation Scholarship for meritorious students	Dhanashri Pasalkar	2012-2013
Sahara Scholarship for economically backward students	Sagar Hulawale V. Deepika	2013-2014
Sir Ratan Tata Trusts Scholarship for meritorious students	Poorwa Badola Nikita Lad Zainab Attari	2013-2014
Lila Poonawala Foundation Scholarship for meritorious students	Pavitra Joshi	2013-2014
Sir Ratan Tata Trusts Scholarship for meritorious students	Daksha Munot Ayesha Pathan Dhanashree Zagade Madhura Shevkar	2014-2015
Endowment from College – Late Shri. Shankar Ganesh Kundalkar Prize	Sanika Abhyankar	2014-2015

24. List of eminent academicians and scientists/visitors to the department:

- Lt. Col. Dr. Raghunath - Ex-Director, AFMC, Pune
- Dr. S. W. Iswaran, St. Stephen College, New Delhi
- Dr. Vikram Padbidri - Department of Microbiology, Jehangir Hospital, Pune
- Dr. P. Gunasekaran – Vice Chancellor, Thiruvalluvar University, Vellore
- Dr. Shailesh Dave - Head, Department of Microbiology, Gujarat University, Ahmedabad
- Dr. Dayanand Agsar - Head, Department of Microbiology, Gulbarga University
- Dr. Pradnya P. Kanekar - Professor Emeritus, Department of Biotechnology, Modern College, Shivaji Nagar, Pune
- Dr. Snehal N. Agnihotri - Principal, Padmashree Dr. D. Y. Patil College of Arts, Commerce and Science, Pune
- Dr. Vaijayantee Sapre - Head, Department of Microbiology, Bharati Vidyapeeth, Pune
- Dr. Bhalchandra D. Bhole - Head, Department of Microbiology, Abasaheb Garware College, Pune
- Smt. Srividya Ravi – Patent Consultant, G. Nair and Associates, Mumbai
- Prof. Vasudeo G. Kshirsagar - Associate Professor, Department of Microbiology, Abasaheb Garware College, Pune
- Dr. Arvind A. Natu - Senior Scientist, IISER, Pune
- Dr. Yogesh Shouche - Scientist E, NCCS, Pune

- Dr. Surendra Ghaskadbi - Senior Scientist, Agharkar Research Institute, Pune
- Dr. Jayant Khire - President, Association of Microbiologist of India, Pune Unit; Scientist, NCL
- Dr. Sham S. Diwaney - Associate Professor, Department of Microbiology, Abasaheb Garware College, Pune
- Dr. Prashant K. Dhakephalkar - Scientist G, Agharkar Research Institute, Pune.

25. Seminars/Conferences/Workshops organized & the source of funding:

Year	Title of Seminar/Conference/Workshop	Funding Agency	Amount Sanctioned (Rs.)
2013-2014	Modern Analytical Techniques in Microbiology 2014	DBT	1,00,000/-
2013-2014	Entrepreneurship: A gate way for biologists	AMI	50,000/-
2011-2012	Workshop for M.Sc. II students on Analytical chromatographic techniques	DES	25,000/-

26. Student profile programme/course wise: Undergraduate

Academic Year	Applications received	Selected	Enrolled		Pass percentage (%)
			M	F	
2010-2011	349	197	38	159	87
2011-2012	380	207	41	166	87
2012-2013	452	211	39	172	94
2013-2014	475	225	38	187	87
2014-2015	503	240	48	192	Results Awaited

Postgraduate

Academic Year	Applications received	Selected	Enrolled		Pass percentage (%)
			M	F	
2010-2011	153	57	15	42	44
2011-2012	170	48	14	34	50
2012-2013	202	45	14	31	46
2013-2014	180	48	10	38	58
2014-2015	183	46	6	40	Results Awaited

27. Diversity of Students: Undergraduate

Academic Year	% of students from the same state	% of students from other states	% of students from abroad
2010-2011	82	11	7
2011-2012	88	11	1
2012-2013	86	10	4
2013-2014	84	13	3
2014-2015	79	13	8

Postgraduate

Academic Year	% of students from the same state	% of students from other states	% of students from abroad
2010-2011	68	18	14
2011-2012	73	17	10
2012-2013	89	11	0
2013-2014	81	19	0
2014-2015	83	17	0

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.?: NET - 03, GATE - 03, SET - 02.

29. Student progression:

Student progression	Against % enrolled
UG to PG	42%
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed	
• Campus selection	-
• Other than campus	55%
Entrepreneurship/Self-employment	-

30. Details of Infrastructural facilities:

- Library (Departmental Library): Area – 194.5 sq.ft.; Number of Books - 606; Number of Journals Subscribed - 02
- Internet facilities for Staff & Students:
Computers with Internet - 04
- Classrooms/Laboratories with ICT facility – 01 (Classroom) + 01 (Laboratory)
- Laboratories: Lab - I: UG - 850 sq.ft.; Lab - II: UG - 850 sq.ft.; Lab - III: PG - 550 sq.ft.

31. Number of students receiving financial assistance from college, university, Government or other agencies:

- 02 students got Sahara scholarship;
- 14 students received Ratan Tata scholarship
- An average of 60% students get financial assistance from State Government agencies in the form of Scholarship/Freeship

32. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts:

Year	Title/Type of Programme	Names of Resource Person(s) (External)
2013-2014 2014-2015	Waste water Engineering	Dr. Bhalchandra D. Bhole, Head and Associate Professor, Abasaheb Garware College, Pune
2012-2013 2013-2014	Combinatorial Chemistry	Dr. Arvind A. Natu, Senior Scientist, IISER, Pune
2013-2014 2014-2015	Opportunities and scope after B.Sc. Microbiology	Shri. Vasudeo G. Kshirsagar, Associate Professor, Abasaheb Garware College, Pune

33. Teaching methods adopted to improve student learning:
- ICT based presentations
 - Project based learning.
34. Participation in Institutional Social Responsibility (ISR) and Extension activities:
- Blood Donation Camp organized in association with Jankalyan Blood Bank December 2013
 - Free Body Fat Analysis Camp in association with Herbalife in December 2013
 - Blood Donation Camp organized in association with Ruby Hall Clinic in December 2014.
35. SWOC analysis of the department and Future plans:

<p>Strengths:</p> <ol style="list-style-type: none"> 1. Well-equipped digital laboratories with state of the art equipment. 2. PG course in Microbiology presents good scope for undertaking research activities 3. Vertical teaching in the department 4. Well equipped spacious departmental library 5. Microbiology is a basic science well connected with other applied fields like pharmaceuticals & fermentation industry. Therefore placement opportunities are good
<p>Weaknesses:</p> <ol style="list-style-type: none"> 1. Infrastructural additions in terms of laboratories, cold room and seating arrangement for students is necessary taking into account the increasing student strength 2. High Student Teacher Ratio
<p>Opportunities:</p> <ol style="list-style-type: none"> 1. Consultancy can be given for various activities like water pollution, preliminary studies for fermentation industry, pharmaceutical activity of bioactive compounds etc 2. Microbiology being a flourishing field of science presents various opportunities to apply for research projects from various funding agencies
<p>Challenges:</p> <ol style="list-style-type: none"> 1. Recognition of the departmental laboratories as recognized research centres 2. National Accreditation Board for Testing and Calibration Laboratories (NABL), certification for laboratories

Future Plans

- Recognition as Research Centre by SPPU, Pune
- Collaborative programmes between Department and resource persons from food and pharma industries to develop skills amongst Post Graduate students.



1. Name of the Department: **Physics**
2. Year of Establishment: Undergraduate - 1903
Postgraduate - 1969
3. Names of Programmes/Courses offered: B.Sc., M.Sc. and Ph.D.
4. Names of Interdisciplinary Courses and department/units involved: Nil
5. Annual/Semester/Choice based Credit system (programme wise):
B.Sc. (F.Y.) – Annual, B.Sc. (S.Y. and T.Y.) – Semester,
M.Sc. – CBCS

6. Participation of the department in the courses offered by other depts.:

Title of Course	Topic(s)	Names of Teachers
5 years Integrated IBB programme of SPPU, Pune	Physics Practicals	Dr. Dipak Choughule Shri. Purushottam Chaudhari Shri. Vinod Yeole Dr. Kishor Sonawane
M.Sc. Geology	Planetary Sciences	Dr. Raka Dabhade
PB B.Sc. Nursing Course	Physics theory	Dr. Sunil Kulkarni Dr. Alka Deshmukh Smt. Shilpa Arora Dr. Sandip Dhobale
B.Sc. Biotechnology course	Physics Theory and Practical	Dr. Pramila Lahoti Dr. Kailas Sapnar Dr. Haribhau Gholap Dr. Fakir Attar Dr. Sunil Kulkarni

7. Courses in collaboration with other Universities, Industries, Foreign Institutions, etc.:
 - M.A. (MCJ - Master in Communication and Journalism) Photojournalism, SPPU, Pune

8. Details of courses/programmes discontinued (if any) with reasons: Nil

9. Number of Teaching Posts:

Undergraduate/Post Graduate	Sanctioned	Filled
Associate Professors	05	05
Assistant Professors	17	13
Assistant Professors (Temporary)	-	04

10. Faculty profile:

Name	Qualification	Designation	Specialization	Experience (Years)	No. of Ph.D.s guided
Dr. Dipak Choughule	M.Sc., Ph.D.	Head and Associate Professor	Materials Science and Thin films	38	-
Shri. Purushottam Chaudhari	M.Sc., M.Phil.	Associate Professor	Electronics and Atmospheric Physics	38	-

Dr. Pramila Lahoti	M.Sc., Ph.D.	Associate Professor	Nuclear Physics	35	-
Dr. Rekha Joshee	M.Sc., Ph.D.	Associate Professor	Materials Science and Thin films	35	-
Dr. Raka Dabhade	M.Sc., Ph.D.	Associate Professor	Astronomy and Astrophysics	22	01 (ongoing)
Dr. Kishor Sonawane	M.Sc., B.Ed., Ph.D.	Assistant Professor	Materials Science, Thin films and Electronics	21	01 (ongoing)
Dr. Kailas Sapnar	M.Sc., B.Ed., Ph.D.	Assistant Professor	Materials Science	20	-
Smt. Alpana Shinde	M.Sc., B.Ed.	Assistant Professor	Materials Science and Thin Films, Atmospheric Physics	16	-
Dr. Nandkumar Mandlik	M.Sc., Ph.D.	Assistant Professor	Nuclear Physics, Radiation Physics	16	-
Dr. Rajendra Mahamuni	M.Sc., Ph.D.	Assistant Professor	Materials Science	28	-
Dr. Ashish Yengantiwar	M.Sc., Ph.D.	Assistant Professor	Materials Science, spectroscopy	09	-
Dr. Haribhau Gholap	M.Sc., Ph.D.	Assistant Professor	Materials Science	09	-
Dr. Fakir Attar	M.Sc., Ph.D.	Assistant Professor	Nuclear Physics	09	-
Dr. Ramchandra Narhe	M.Sc., Ph.D.	Assistant Professor	Condensed Matter Physics	08	-
Dr. Sunil Kulkarni	M.Sc., B.Ed., Ph.D.	Assistant Professor	Materials Science, Nanomaterials Nano-biotechnology	08	-
Smt. Pallavi Dixit	M.Sc., M.Tech.	Assistant Professor	Lasers	07	-
Dr. Alka Deshmukh	M.Sc., Ph.D.	Assistant Professor	Materials Science and Thin films	03	-
Dr. Anjali Ogale (Retired on 31/07/2014)	M.Sc., D.H.E., Ph.D.	Associate Professor	Materials Science and Thin films	29	-
Shri Vinod Yeole (Retired on 31/12/2014)	M.Sc., M.Phil.	Associate Professor	Electronics and Computational Physics	38	-
Dr. Sandip Dhobale	M.Sc., Ph.D.	Assistant Professor	Materials Science, Nanomaterials Thin films	01	-
Shri. Vaibhav Deshmukh	M.Sc.	Assistant Professor	Physics	03	-
Shri. Rahul Aher	M.Sc.	Assistant Professor	Physics	01	-
Smt. Snehal Ithape	M.Sc.	Assistant Professor	Physics	01	-
Smt. Fatima Sutarwala	M.Sc.	Assistant Professor	Physics	01	-

11. List of Senior Visiting Faculty:
- Dr. Sulabha Kulkarni, UGC Professor, IISER, Pune
 - Dr. Sangita Kale, Dean, DIAT, Pune
 - Prof. Vasant Bhoraskar, Emeritus Professor, SPPU, Pune
 - Dr. Sanjay Dhole, Professor in Physics, SPPU, Pune
 - Dr. Varun Bhalerao, DST INSPIRE Faculty Fellow, IUCAA, Pune
 - Dr. Dattatray Late, Ramanujan fellow, NCL, Pune
 - Shri Madhav Khare, Director, Shastravahini, Pune
 - Shri Samir Dhurde, Science popularisation officer, IUCAA, Pune
12. Percentage of Lectures delivered and practical classes handled (programme wise) by temporary faculty:

Year	Total Workload of Department	Total Workload of Permanent Faculty	Lectures delivered by Temporary Faculty		Practical Classes handled by Temporary Faculty	
			Number	Percentage (%)	Number	Percentage (%)
2010-2011	440	400	04	01	36	08
2011-2012	472	412	04	01	56	12
2012-2013	430	390	04	01	36	08
2013-2014	428	388	04	01	36	08
2014-2015	449	367	02	0.4	80	18

13. Student-Teacher Ratio (programme wise):

Level	Class	Number of Teachers	Student-Teacher Ratio
Undergraduate	B.Sc. Students Strength (F.Y./4 + S.Y./3 + T.Y./1)	18	337/18 = 19:1
	(450/4 + 330/3 + 115/1) = 337		
Postgraduate	M.Sc. Students Strength (Part-I + Part-II)	4	60/4 = 15:1
	60		

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Number of Support Staff (Lab Assistant and Lab Attendant)		
	Sanctioned	Filled
Lab Assistants	05	05
Lab Attendants	16	16

15. Qualification of teaching faculty with D.Sc./D.Litt/Ph.D./M.Phil./PG: PG – 05; M.Tech – 01; M.Phil. – 01; Ph.D. – 15

16. Number of faculty with ongoing projects from a) National
b) International funding agencies and grants received: 06

Duration	Name of Faculty	Title of Project	Name of Funding Agency	Grant Received (Rs.)	Status (Minor/Major)
2012-2014	Dr. Fakir Attar	Measurement of natural radioactivity in building materials in coastal regions of Maharashtra state	BCUD – SPPU	3,00,000/-	Minor
2013-2015	Dr. Raka Dabhade	Use of virtual observatory for variable star observations	UGC	1,25,000/-	Minor
2013-2015		Development of FC Observatory - An autonomous Robotic telescope	ISRO/SPPU	11,00,000/-	Major
2013-2015	Dr. Ashish Yengantiwar	Deposition of Zinc Oxide based Nanostructures for Optoelectronics Applications	BCUD-SPPU	2,60,000/-	Minor
2013-2015	Dr. Haribhau Gholap	Synthesis of Semiconductor Quantum dots (QDs) -Metal Oxides (MOs) Nano-composites by Chemical Method	BCUD-SPPU	2,70,000/-	Minor
2015-2016	Dr. Raka Dabhade, Smt. Pallavi Dixit	TARA, Fergusson College Node, Pune, India	International Astronomical Union (IAU)	3,60,000/- (Euros 4500)	Minor
2014-2017	Dr. Kishor Sonawane	Study of Metal Oxide Semiconductor Thin Films for Gas Sensing Applications	BRNS, BARC Mumbai	25,20,000/-	Major

17. Departmental Projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received:

Title of Project	Funding from DST-FIST/UGC XI Plan, XII Plan, DBT, Any Other	Grant received (Rs.)
Virtual observatory for variable star observations	UGC	1,25,000/-
DBT – STAR College Scheme	DBT	7,00,000/-
Student Research Projects (06)	UGC-BSR-II	30,000/-
Development of Nanoparticles for radiation dosimetry	UGC-CPE (2013 – 2013)	8,000/-
Studies on sensor application of Titanium dioxide nanomaterials		8,000/-
Study of Quantum size confinement effect in semiconductor Quantum dots		8,000/-

Deposition and characterization of metal oxides nanostructured films	UGC-CPE (2014 – 2015)	8,000/-
Study of thermo emf and hall effect in ferrites		8,000/-
Effect of size variation of CaSO ₄ ; Eu nanophosphors on thermoluminescence and photoluminescence (PL)		20,000/-
To study the different properties of ZnO (Zinc Oxide) Nanoparticles with the hydrothermal technique		20,000/-
Speeding up the germination by seed priming with semiconductors quantum dots		20,000/-
Quaternary semiconductors nanostructure for inhibition of bacterial biofilm formation		20,000/-
Photo sensors based on metal oxide nanostructured films on flexible substrates		20,000/-
Effect of electron and gamma radiation on the corrosion rate of Aluminium and Copper		20,000/-
Total		19 Projects

18. Research Centre/facility recognized by the University:
Recognition by SPPU Pune, Letter No. CA/864 dated 25/04/2013

19. Publications:

Name of Faculty	Papers		Books	Patents	Total Publications	Impact Factor	Total Citation	h-Index	SNIP	SJR
	International	Proceedings	Book Articles	International						
Dr. Raka Dabhade	-	5	-	-	5	-	26	3	-	-
Dr. Kishor Sonawane	2	2	-	-	4	1.4	-	-	-	-
Dr. Kailash Sapnar	7	1	-	-	8	7.54	35	3	5	5
Dr. Nandkumar Mandlik	4	2	4	-	10	4.6	2	1	4	4
Dr. Ashish Yengantiwar	6	1	-	1	8	48.98	99	6	6	6
Dr. Haribhau Gholap	6	-	-	-	6	15.67	25	3	6	6
Dr. Fakir Attar	3	2	-	-	5	1.92	7	1	1	1
Dr. Ramchandra Narhe	2	-	-	-	2	4.16	30	11	1	1
Dr. Sunil Kulkarni	-	2	-	-	2	-	-	-	-	-
Smt. Pallavi Dixit	-	1	-	-	1	-	-	-	-	-
Dr. Alka Deshmukh	3	1	-	-	4	5.44	32	3	3	3
Dr. Sandip Dhobale	6	-	1	-	7	11.28	32	3	6	6
Total	39	17	5	1	62	101	288	34	32	32

20. Areas of Consultancy and Income generated:

Nature of Consultancy	Name of the Industry/NGO/Institute or any Other	Income Generated, if any (Rs.)
Intensive course in crime scene photography	Crime Investigation Department (CID), Pune, Maharashtra State	Honorary Consultancy
5-years Integrated M.Sc. Course	I.B.B., SPPU, Pune	3,20,000/-

21. Faculty as members in a) National Committees b) International Committees c) Editorial Board:

Name of Faculty Members	National Committee/ International Committee/Editorial Board	Any other Committee/ Board
Shri. Purushottam Chaudhari (Vice President, Pune Chapter), Dr. Raka Dabhade (Vice President, Pune Chapter), Dr. Ashish Yengantiwar (Joint-secretary)	Indian Association of Physics Teachers (IAPT)	-
Dr. Pramila Lahoti (Vice President, Pune Chapter)	Indian Physics Association (IPA)	-
Dr. Pramila Lahoti, Dr. Raka Dabhade – Members, Advisory Committee	Bharatiya Vidya Bhavans Exploratory	-
Dr. Fakir Attar - Member		Board of Studies (BOS) Sub-committee

22. Student projects:

- Percentage of students who have done in-house projects including inter departmental/programme: UGC-CPE – 18%
- Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/ Industry/ other agencies: 80%

23. Awards/Recognitions received by faculty and students:

Title of Award/Recognition	Name of Faculty/Student	Year
Faculty		
Best Teacher Award, IPA, Pune	Dr. Pramila Lahoti	2011
Best Teacher Award, Uttar BharatiyaSangh, Pune		2012
R. Chandrashekar Award for Best Project Guide by IPA, Pune Chapter	Dr. Raka Dabhade	2010 2012
Best Paper Award in the Indo–US International Conference on materials science held at University of Delhi, New Delhi Awarded as Scientist by an International Journal ‘Bio-nano Frontier’	Dr. Kailas Sapnar	2010 2011
Best Paper Award in National Symposium N-SEPMI 2014, Department of Physics, SPPU, Pune - First Prize	Dr. Nandkumar Mandlik	2014
Visiting Fellowship at JNCASR, Bangalore	Dr. Ashish Yengantiwar	2014
Best Paper Award in National Level Seminar on Nanoscience at Sinnar, Nashik - First Prize	Dr. Haribhau Gholap	2010

Prof. P. S. Damble Prize for Best Oral presentation in Raman Memorial Conference (RMC-2012) at Department of Physics, SPPU		2012
Indian Academy of Science, Bangalore awarded Summer Research Fellowship		2014
Indian Academy of Science awarded Research fellowship at JNCASR (Jawaharlal Nehru Centre for Advanced Scientific Research), Bangalore		2014
Best paper award in 1 st International Symposium on Physics and Technology of Sensors organized by CMET, Pune	Dr. Sunil Kulkarni	2012
Students		
University level Toppers (Gold Medal) for consecutive three years in M.Sc. (Physics) in Savitribai Phule Pune University	Tanzeema Shaikh Sachin Ghadge Anjana Desai	2010 2011 2012
Avishkar at state and zonal level - First prize	Ramakant Sharma	2010
Project competition Anveshan National Project Competition - Third prize	Dhavala Suri	2013
KVPY (Kishor Vaigyanik Protsahan Yojana) Scholarship	Shantanu Shekhar	2011
COEP Quiztronomy (Astronomy Quiz Competition) - Second prize	Albart Poul Rohit Chauji	2013
IPA Intercollegiate Post graduate lecture competition First Prize Third Prize Consolation Prize	Asmita Bhandare Zainab Hakim Yogesh Chitare	2013
IPA (Indian Physics Association) Intercollegiate Post graduate quiz	Dhavala Suri and Nilanjan Barma Sridhar Puranik and Pooja Jatkar	2013 2015
Scholarship for Ph.D. at Cambridge University	Sargam Mulay	2014

24. List of eminent academicians and scientists/visitors to the department:

- Dr. S. R. Gowarikar, Senior Nuclear Physicist, Retired from BARC, Mumbai
- Padmashree Dr. Vijay Bhatkar, Former Director C-DAC, Pune
- Padmashree Dr. Pramod Kale, Former Director ISRO
- Prof. Pandit Vidyasagar, Vice Chancellor, SRTM, Nanded
- Dr. Shekhar Mande, Director, NCCS, Pune
- Prof. Niel Smith, Cork University Ireland
- Prof. Milind Kunchur, North Carolina University, USA
- Dr. Pramod Karulkar–USA
- Dr. Sangita Kale, Dean, DIAT, Pune
- Prof. Vasant Bhoraskar, Emeritus Professor, SPPU, Pune
- Dr. Jayshree Sathe, Pro-VC Deccan College, Pune
- Dr. Sanjay Dhole, Professor in Physics, SPPU, Pune
- Dr. Shivprasad Patil – IISER, Pune
- Dr. Dattatray Late; Ramanujan fellow, NCL, Pune
- Dr. Gayathri Pananghat - IISER, Pune
- Dr. Dhananjay Bodas - Agharkar Research Institute
- Dr. Milind Acharya, CEO, Millman Industries, Pune
- Shri. Anand Bhave, Consultant in Optoelectronics and Ophthalmology

25. Seminars/Conferences/Workshops organized & the source of funding:

Year	Title of Seminar/ Conference/Workshop	Funding Agency	Amount Sanctioned (Rs.)
2010-2011	Frontiers in Physics IV	IUCAA	-
2011-2012	Frontiers in Physics V	BCUD	1,00,000/-
2012-2013	Frontiers in Physics VI	Sponsorships	50,000/-
2012-2013	M. Sc. I Syllabus revision workshop	BCUD- SPPU	7,500/-
2013-2014	Frontiers in Physics VII	IUCAA	1,00,000/-
2014-2015	Frontiers in Physics VIII	IUCAA and Other Sponsorships	55,000/- 3,500/-
2014-2015	Science Academies Lecture Workshop on Nanotechnology: Energy and Health	Indian Science Academy - Bangalore, Delhi and Allahabad	1,21,500/-

26. Student profile programme/course wise: Undergraduate:

Academic Year	Applications received	Selected	Enrolled		Pass percentage (%)
			M	F	
2010-2011	78	75	44	31	93
2011-2012	86	79	42	37	87
2012-2013	82	77	50	27	94
2013-2014	85	81	48	50	91
2014-2015	125	111	74	37	Results Awaited

Postgraduate:

Academic Year	Applications received	Selected	Enrolled		Pass percentage (%)
			M	F	
2010-2011	254	63	36	27	79
2011-2012	363	61	34	27	78
2012-2013	623	57	15	42	81
2013-2014	615	58	30	28	77
2014-2015	540	53	32	21	Results Awaited

27. Diversity of Students: Undergraduate:

Academic Year	% of students from same state	% of students from other states	% of students from abroad
2010-2011	94	5	1
2011-2012	95	4	1
2012-2013	93	5	2
2013-2014	87	10	3
2014-2015	95	4	1

Postgraduate:

Academic Year	% of students from same state	% of students from other states	% of students from abroad
2010-2011	82	6	12
2011-2012	90	7	3
2012-2013	89	9	2
2013-2014	93	5	2
2014-2015	94	6	0

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.?: 52

29. Student progression:

Student progression	Against % enrolled
UG to PG	15%
PG to M.Phil.	5%
PG to Ph.D.	5%
Ph.D. to Post-Doctoral	2%
Employed	
• Campus selection	-
• Other than campus recruitment	75%
Entrepreneurship/Self-employment	1%

30. Details of Infrastructural facilities:

- Library (Departmental Library): Area – 220 sq.ft.; Number of Books - 1500; Number of Journals Subscribed – 30
- Internet facilities for Staff & Students:
Computers with Internet – 36
- Classrooms with ICT facility – 02
- Laboratories: Laboratory – I: 3121 sq.ft.; Laboratory – II: 2152 sq.ft.; Laboratory – III: 2335 sq.ft.; Laboratory – IV (Research): 732 sq.ft.; Photography Studio: 1076 sq.ft.; Photography Computer Laboratory: 322 sq.ft.

31. Number of students receiving financial assistance from college, university, Government or other agencies:

- An average of 60% students get financial assistance from Central/ State Government agencies in the form of Scholarship/Freeship.

32. Details on student enrichment programmes (special lectures/workshops/seminars) with external experts:

Year	Title/Type of Programme	Names of Resource Person(s) (External)
2010-2011	Industry-Academia interaction	Shri. Anand Bhave, Consultant in Optoelectronics and Ophthalmology Dr. Anand Gole, Scientist, Tata Chemicals
2010-2011	One day workshop for PG students	Dr. S. R. Gowarikar, BARC, Mumbai Dr. S. K. Date, SPPU, Pune
2011-2012	One day workshop for PG students	Dr. S. G. Kulkarni, DIAT, Pune Dr. S. K. Date, SPPU, Pune Dr. D. S. Joag, SPPU, Pune
2013-2014	Guest Lectures	Shri. Govinda Lakhotiya, J. B. Science College, Wardha Dr. Dattatray Late, NCL, Pune Dr. Shivprasad Patil, IISER, Pune
2014-2015	Guest Lectures	Dr. V. N. Bhoraskar, Emeritus Professor, SPPU, Pune Dr. Jayshree Sathe, Pro-VC Deccan College, Pune Dr. Shekhar Mande, Director, NCCS, Pune Dr. Gayathri Pananghat, IISER, Pune Dr. Sangeeta Kale, Dean, DIAT Dr. S. D. Dhole, Professor in Physics, SPPU, Pune

33. Teaching methods adopted to improve student learning:
- Students are encouraged to present research papers at various conferences
 - Study visit of students to various National Institutions, Laboratories and Industries
 - Students are encouraged to undertake projects first year onwards
 - Seminars by M.Sc. students
 - Demonstrations
 - Use of ICT
 - Students are encouraged to participate in Co-curricular and Extra-curricular activities.
34. Participation in Institutional Social Responsibility (ISR) and Extension activities:
- Under Science Education Initiative (SEI) program, motivated undergraduate and postgraduate students are recruited, trained and supported to teach Science and Mathematics in low-income schools as part-time teachers
 - Public watch/awareness of Celestial events: Eclipses, Transits, Meteors with exhibitions
 - Students volunteer for Science day public outreach programs at IUCAA and NCRA
 - Project in collaboration with Sevavardhini – Pune for study of extraction methods and applications of Biba oil

35. SWOC analysis of the department and Future plans:

Strengths: <ol style="list-style-type: none">1. Students are awarded fellowships for Masters and Ph. D. programmes by world renowned universities and institutes such as Max Planck Institute (Germany), Caltech, Emory, NASA (USA), Oxford, Cambridge (UK), Cork University (Ireland), ICTP (Italy) etc.2. Research funding from various national and international agencies3. Spacious, well equipped laboratories for all programmes4. Beneficial interactions of students with eminent scientists and academicians
Weaknesses: <ol style="list-style-type: none">1. Insufficient space and infrastructure for instruments2. High student–teacher ratio
Opportunities: <ol style="list-style-type: none">1. Strengthening alumni network and interactions for funding, placements and guidance to existing students2. Encouragement for students to work in National laboratories, institutes, industries
Challenges: <ol style="list-style-type: none">1. Identification of specific areas of research and develop infrastructures accordingly

Future plans

- Collaborations with other Universities/Institutes/Industries
- Enhancing intake quality of students for PG programme through entrance examination
- Reading/study room for students in the department



1. Name of the department: **Statistics**
2. Year of Establishment: 1955
3. Names of Programmes/Courses offered: B.Sc.
4. Names of Interdisciplinary courses and the departments/units involved: Nil
5. Annual/ semester/choice based credit system (programme wise):
B.Sc. (F.Y.) - Annual, (S.Y. and T.Y.) – Semester
6. Participation of the department in the courses offered by other departments:

Title of Course	Topic(s)	Names of Teachers
Bachelor of Nursing	Measures of Central Tendency, Testing of Hypothesis	Shri. Subhash Shende
B.Sc. Microbiology	Measures of Central Tendency and Measures of Dispersion, Binomial, Poisson, Geometric	Ms. Rutuja Joshi

7. Courses in collaboration with other universities, industries, foreign institutions, etc.: Nil
8. Details of courses/programmes discontinued (if any) with reasons: Nil
9. Number of Teaching posts:

Undergraduate/Post Graduate	Sanctioned	Filled
Associate Professor	01	01
Assistant Professors	06	03
Assistant Professors (Temporary)	-	04

10. Faculty profile:

Name	Qualification	Designation	Specialization	Experience (Years)
Shri. Subhash Shende	M.Sc.	Head and Associate Professor	Mathematical Statistics	24
Smt. Neelima Bhalerao	M.Sc.	Assistant Professor	Industrial Statistics	14
Smt. Deepa Kulkarni	M.Sc.	Assistant Professor	Mathematical Statistics	22
Smt. Charuta Dabir	M.Sc. M. Phil.	Assistant Professor	Applied Statistics	08
Ms Rutuja Joshi	M.Sc.	Assistant Professor	Applied Statistics	03
Shri. Prashant Kulkarni	M.Sc.	Assistant Professor	Applied Statistics	02
Smt. Sunitee Kulkarni	M.Sc.	Assistant Professor	Applied Statistics	02
Ms. Unnati Chavan	M.Sc.	Assistant Professor	Applied Statistics	01

11. List of senior visiting faculty: Nil
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:

Year	Total Workload of Department	Total Workload of Permanent Faculty	Lectures delivered by Temporary Faculty		Practical Classes handled by Temporary Faculty	
			Number	Percentage (%)	Number	Percentage (%)
2010-2011	172	144	08	5	20	11
2011-2012	168	142	04	2	22	13
2012-2013	156	124	04	2	28	18
2013-2014	160	120	-	-	40	24
2014-2015	156	89	11	7	56	36

13. Student -Teacher Ratio (programme wise):

Level	Class	Number of Teachers	Student-Teacher Ratio
Undergraduate	B.Sc. Students Strength (F.Y./4 + S.Y./3 + T.Y./1)	8	150/8 = 19:1
	(230/4 + 140/3 + 46/1) = 150		

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Number of Support Staff (Lab Assistant and Lab Attendant)		
	Sanctioned	Filled
Lab Assistants	01	01
Lab Attendants	04	03

15. Qualifications of teaching faculty with D.Sc./D.Litt./Ph.D./M.Phil./PG: PG – 07; M.Phil. – 01
16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil
17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received:

Title of Project	Funding from DST-FIST/ UGC XI Plan, XII Plan, DBT, Any Other	Grant Received (Rs.)
Statistical Analysis of Students satisfaction and attendance at Fergusson College, Pune	UGC-CPE (2011-2012)	10,000/-
Analysis and Prediction of Fluctuations in USD/INR exchange rate.		
Analysis of Pigment production		
Four theme based posters (2011-2012)		

Analysis of oil prices and world economy	UGC-CPE (2014-2015)	15,000/-
Applications of Statistics to real life situations		
Three theme based posters (2014-2015)		
Statistical Analysis of examination methods	UGC-BSR-II (2014-2015)	30,000/-
Why spectacles?		
Statistical Analysis of Elucidating the socio - culture influence of the West in Pune		
The Science of Rumours		
Matters of Memory – A Statistical study		
Wellness attributes measurement - a statistical survey		
Total	13 Projects	55,000/-

18. Research Centre/facility recognized by the University: Nil

19. Publications:

Name of Faculty	Papers		Books	Total Publications
	International	Proceedings	National	
Shri. Subhash Shende	-	1	1	2
Smt. Nileema Bhalerao	1	-	-	1
Smt. Deepa Kulkarni	1	-	-	1
Total	2	1	1	4

20. Areas of consultancy and income generated: Nil

21. Faculty as a member in: a) National Committees b) International Committees c) Editorial Boards:

Name of Faculty Members	National Committee/International Committee/Editorial Board	Any other Committee/Board
Shri. Subhash Shende	-	i. Member, Maharashtra State Secondary and Higher Secondary Board Textbook of XII th Mathematics and Statistics Committee ii. F.Y.B.A./B.Sc. Statistics Syllabus Committee, SPPU, Pune iii. S.Y. B.Sc. Statistics Syllabus Committee, SPPU, Pune
Smt. Deepa Kulkarni	-	Member, S.Y.B.A. Statistics Syllabus Committee, SPPU, Pune

22. Student projects:

- a) Percentage of students who have done in-house projects including inter departmental/programme: UG – 13
- b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/ Industry/other agencies: Nil

23. Awards/Recognitions received by faculty and students: Nil
24. List of eminent academicians and scientists/visitors to the department:
- Dr. B. K. Kale, Department of Statistics, SPPU, Pune
 - Dr. S. D. Gore, Department of Statistics, SPPU, Pune
 - Dr. A. P. Gore, Department of Statistics, SPPU, Pune, Cytel, Software Solutions
 - Dr. T. V. Ramanathan, Department of Statistics, SPPU, Pune
 - Dr. S. R. Deshmukh, Department of Statistics, SPPU, Pune
 - Dr. U. Naiknimbalkar, Department of Statistics, SPPU, Pune
 - Dr. David Hanagal, Department of Statistics, SPPU, Pune
 - Dr. B. K. Kale, Department of Statistics, SPPU, Pune
 - Dr. A. V. Kharshikar, Department of Statistics, SPPU, Pune
 - Shri. G. P. Marathe, Department of Statistics, SPPU, Pune
 - Shri. A. R. Darekar, Abasaheb Garware College, Pune.
25. Seminars/Conferences/Workshops organized & the source of funding:

Year	Title of Seminar/Conference/Workshop	Funding Agency	Amount Sanctioned (Rs.)
2011-2012	National Conference on Use of SPSS for Statistical Analysis	UGC	10,000/-
2012-2013	National Conference on Recent trends in Applied of Statistics: An inter-disciplinary Approach	BCUD - SPPU	30,000/-

26. Student profile programme/course wise: Undergraduate

Academic Year	Applications received	Selected	Enrolled		Pass percentage (%)
			M	F	
2010-2011	32	32	10	22	88
2011-2012	38	38	16	22	89
2012-2013	33	33	08	25	91
2013-2014	42	42	20	22	81
2014-2015	46	46	20	26	97

27. Diversity of Students: Undergraduate

Academic Year	% of students from the same state	% of students from other states	% of students from abroad
2010-2011	82	18	-
2011-2012	85	15	-
2012-2013	88	09	3
2013-2014	89	09	2
2014-2015	87	13	-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc?: Nil

29. Student progression:

Student progression	Against % enrolled
UG to PG	40%
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed	
• Campus selection	10%
• Other than campus recruitment	
Entrepreneurship/Self-employment	-

30. Details of Infrastructural facilities:

- Library (Departmental Library): Area – 150 sq.ft.; Number of Books - 300
- Internet facilities for Staff & Students:
Computers with Internet - 19
- Classrooms/Laboratories with ICT facility – 01
- Laboratories: Lab 1: UG - 1000 sq.ft.

31. Number of students receiving financial assistance from college, university, Government or other agencies:

- An average of 60% students get financial assistance from Central/ State Government agencies in the form of Scholarship/Freeship

32. Details on student enrichment programmes (special lectures/ workshops/seminar) with external experts:

Year	Title/Type of Programme	Names of Resource Person(s) (External)
2010-2011	Applications of Statistics through Probability Distributions in Statistics case studies	Prof. A. P. Gore, SPPU, Pune, and Dr. T. V. Ramanathan, Department of Statistics, SPPU, Pune
2012-2013	Applications of Statistics	Prof. S. V. Bakare, Former Head, SPPU, Pune
	How to make statistical posters?	Dr. M. M. Kale, Department of Statistics, SPPU, Pune
2013-2014	Actuarial Statistics	Smt. Deepti Poojary and Ms. Hemal Thakkar, Finstat Academy, Mumbai

33. Teaching methods adopted to improve student learning:

- Seminars
- Presentations
- Problem solving sessions

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

- Tutoring, assisting underprivileged children/house maids

35. SWOC analysis of the department and Future plans:

Strengths: <ol style="list-style-type: none">1. Intellectual Students2. Well Equipped Laboratory3. Active participation of students in Statistics Association activities conducted by SPPU, Pune
Weaknesses: <ol style="list-style-type: none">1. Number of filled posts is less than the sanctioned posts2. Insufficient space in Statistics Laboratory in comparison with the strength of the students for performing Practicals
Opportunities: <ol style="list-style-type: none">1. Encouraging students to learn and use various softwares such as R - Software which in open source to make them eligible in IT industries2. Big Network of past students available for development of freshers
Challenges: <ol style="list-style-type: none">1. Identify specific area of research and develop infrastructure accordingly

Future Plans

- Designing Special module on “Statistics for Researchers”, which will help all the researchers in the college.



1. Name of the Department: **Zoology**
2. Year of Establishment: 1916
3. Names of Programmes/Courses offered: B.Sc.
4. Names of Interdisciplinary Courses and department/units involved:
Nil
5. Annual/Semester/Choice based Credit system (programme wise):
B.Sc. (F.Y.) – Annual, B.Sc. (S.Y. and T.Y.) – Semester
6. Participation of the department in the courses offered by other departments: Nil
7. Courses in collaboration with other Universities, Industries, Foreign Institutions, etc.: Nil
8. Details of Courses/Programmes discontinued (if any) with reasons: Nil
9. Number of Teaching Posts:

Undergraduate	Sanctioned	Filled
Associate Professors	03	03
Assistant Professors	07	05
Assistant Professors (Temporary)	-	02

10. Faculty profile:

Name	Qualification	Designation	Specialization	Experience (Years)	No. of Ph.D.s guided
Dr. Kishor Pendharkar	M.Sc., Ph.D.	Head and Associate Professor	Entomology	23	-
Dr. Navnath Chandanshive	M.Sc., Ph.D.	Associate Professor	Fishery Sciences	25	-
Dr. Vishakha Korad	M.Sc., B.Ed., M.Phil., Ph.D.	Associate Professor	Zoology	30	02 (Awarded)
Dr. Anukriti Nigam	M.Sc., Ph.D., P.G.D.C.A.	Assistant Professor	Ichthyology	12	-
Dr. Sanjay Kumbhar	M.Sc., Ph.D.	Assistant Professor	Entomology	20	-
Dr. Sameer Terdalkar	M.Sc., Ph.D.	Assistant Professor	Zoology	15	-
Dr. Pramod Phirke	M.Sc., Ph.D.	Assistant Professor	Physiology	05	-
Shri. Ravindra Shinde	M.Sc.	Assistant Professor	Molecular Biology	04	-
Dr. Gomthi K.	M.Sc., Ph.D.	Assistant Professor	Parasitology	08	-
Smt. Pradnya Joshi	M.Sc.	Assistant Professor	Entomology	04	-

11. List of Senior Visiting Faculty:

Name	Institute/Organization
Prof. Ramesh Bhonde	Manipal University
Prof. G. N. Wankhede	St. Gadge Baba Amravati University
Dr. Shaunak Kulkarni	Department of Anthropology, SPPU, Pune
Dr. Pankaj Bhatnagar	Zoological Survey of India, Akurdi, Pune

12. Percentage of Lectures delivered and practical classes handled (programme wise) by temporary faculty:

Year	Total Workload of Department	Total Workload of Permanent Faculty	Practical Classes handled by Temporary Faculty	
			Number	Percentage (%)
2010-2011	335	43(P)+34(L)	05	2
2011-2012	440	40(P)+34(L)	10	5
2012-2013	464	40(P)+34(L)	10	5
2013-2014	313	40(P)+34(L)	10	5
2014-2015	240	47(P)+52(L)	06	3

13. Student-Teacher Ratio (programme wise):

Level	Class	Number of Teachers	Student-Teacher Ratio
Undergraduate	B.Sc. Students Strength (F.Y./4 + S.Y./3 + T.Y./1)		
	(311/4 + 204/3 + 41/1) = 186	10	186/10 = 18:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Number of Support Staff (Lab Assistant and Lab Attendant)		
	Sanctioned	Filled
Lab Assistants	02	02
Lab Attendants	07	07

15. Qualification of teaching faculty with D.Sc./ D.Litt./ Ph.D./ M.Phil./ PG: PG - 02; Ph.D. - 08

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: 02

Duration	Name of Faculty	Title of Project	Name of Funding Agency	Grant Received (Rs.)	Status (Minor/Major)
2014-2016	Dr. Kishor Pendharkar	Study of Co-Adminsitration of Pentoxifylline with the plant extract <i>Tridax procumbens</i> on the early development of Chick Embryo	UGC	3,75,000/-	Minor

2013 -2015	Dr. Vishakha Korad	Study on diversity and distribution of Beetles (Insecta: Coleoptera) in Western Ghats of Pune district.	UGC	75,000/-	Minor
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17. Departmental Projects funded by DST-FIST; UGC, DBT, ICSSR, etc., and total grants received:

Title of Project	Funding from DST - FIST/ UGC XI Plan, XII Plan, DBT, Any Other	Grant received (Rs.)
DBT – STAR College Scheme	DBT - STAR	7,00,000/-
UGC-CPE Students Project (09)	UGC	56,000/-
Student Research Projects (06)	UGC - BSR (II)	30,000/-

18. Research Centre/facility recognized by the University:
Recognition by SPPU, Pune - Letter No. CA/864 dated 25/04/2013

19. Publications:

Name of Faculty	Papers			Books		Total Publications	Impact Factor	Total Citation	h-Index
	International	National	Proceedings	International	Book Articles				
Dr. Kishor Pendharkar	-	3	3	-	4	10	-	-	-
Dr. Navnath Chandanshive	4	1	-	-	-	5	3.17	23	3
Dr. Vishakha Korad	6	-	5	2	-	13	-	-	-
Dr. Anukriti Nigam	-	1	2	-	2	5	-	-	-
Dr. Sanjay Kumbhar	1	1	2	-	-	4	-	-	-
Dr. Sameer Terdalkar	1	-	2	-	2	5	2.9	3	1
Dr. Pramod Phirke	1	2	1	-	-	4	-	-	-
Shri. Ravindra Shinde	-	-	1	-	-	1	-	-	-
Total	13	8	16	2	8	47	6.07	26	4

20. Areas of Consultancy and Income generated:

Nature of Consultancy	Name of the Industry/NGO/Institute or any Other	Income Generated, if any (Rs.)
Training of NIV Scientists on field for Study of Flying Foxes (2009 to 2011)	National Institute of Virology, Pune.	Honorary Consultancy
Maharashtra Olympiad Workshop under Nurturing Excellence and Talent (NET) Program (May 5 th to May 11 th , 2012)	Maharashtra Knowledge Corporation Ltd.,	Honorary Consultancy
Sharing of Expertise for National Eligibility Test (NET) (2012- 2013)	MITCON, Consultancy Services Ltd., Pune.	Honorary Consultancy

21. Faculty as members in a) National Committees b) International Committees c) Editorial Board:

Name of Faculty Members	National Committee/ International Committee/ Editorial Board	Any other Committee/Board
Dr. Kishor Pendharkar	-	Board of Studies (Sub-Committee) in Zoology, SPPU, Pune (2014-2015)
Dr. Sanjay Kumbhar	-	Board of Studies in Zoology, Shivaji University, Kolhapur (2010)

22. Student projects:

- Percentage of students who have done in-house projects including inter departmental/programme: UGC-CPE – 09; UGC-BSR – 06
- Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/ Industry/other agencies: Nil

23. Awards/Recognitions received by faculty and students:

Title of Award/Recognition	Name of Faculty/Student	Year
Poster Competition in Two days State Level Workshop, Sinhgad College of Science, Ambegaon - Second Prize	Manoj Varma	2014-2015

24. List of eminent academicians and scientists/visitors to the department:

- Prof. Ramesh Bhonde, Manipal University
- Prof. G. N. Wankhede, Head, Department of Zoology, St. Gadge Baba Amravati University
- Dr. Shaunak Kulkarni, Head, Department of Anthropology, SPPU, Pune
- Dr. Pankaj Bhatnagar, Officer-In Charge, ZSI, Akurdi, Pune
- Prof. S. Kannan, Director, Academic Staff College and Professor in Environmental Science, Madurai University
- Prof. Untawale, Former Scientist, National Institute of Oceanography, Dona-Paola, Goa
- Dr. Geeta Padate, Head, Zoology, Baroda University
- Prof. M. Krishnan, Professor in EVS and Experimental Biology, Bhartidarshan University, Tiruchirapally
- Prof. Iswaran, St. Stephen College, New Delhi
- Dr. Suman Govil, Scientist, DBT, New Delhi
- Dr. R. M. Sharma, Director, ZSI, Solan
- Dr. Sanjeev Galande, Scientist, IISER, Pune
- Dr. Absar Ahmed, Scientist, NCL, Pune
- Prof. B. B. Nath, Head, Department of Zoology, SPPU, Pune.

25. Seminars/Conferences/Workshops organized & the source of funding:

Year	Title of Seminar/Conference/Workshop	Funding Agency	Amount Sanctioned (Rs.)
2011-2012	National Conference on Biodiversity, Monitoring and Research: Current Status and Future Needs	UGC	1,50,000/-
2014-2015	Secondary School Teachers Training Programme in Methods in Biology	DBT - STAR	-

26. Student profile programme/course wise:

Undergraduate:

Academic Year	Applications received	Selected	Enrolled		Pass percentage (%)
			M	F	
2010-2011	53	50	9	41	94
2011-2012	35	32	6	26	100
2012-2013	34	34	11	23	97
2013-2014	40	36	13	23	94
2014-2015	50	41	11	30	Results Awaited

27. Diversity of Students: Undergraduate:

Academic Year	% of students from same state	% of students from other states	% of students from abroad
2010-2011	97	3	-
2011-2012	99	-	1
2012-2013	97	3	-
2013-2014	99	1	-
2014-2015	95	5	-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.?: UPSC – 01, MPSC - 01.

29. Student progression:

Student progression	Against % enrolled
UG to PG	14%
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed	-
• Campus selection	
• Other than campus recruitment	
Entrepreneurship/Self-employment	-

30. Details of Infrastructural facilities:
- Library (Departmental Library): Area – 200 sq.ft.; Number of Books - 118; Number of Journals Subscribed - 02
 - Internet facilities for Staff and Students:
Computers with Internet - 09
 - Classrooms/laboratories with ICT facility – 03 (Laboratories)
 - Laboratories: UG (Lab-I) - 1500 sq.ft.; UG (Lab-II) - 1650 sq.ft.; UG (T.Y. Lab) - 840 sq.ft.; Microscope Facility Cabin - 841 sq.ft.; Chemical Room - 182 sq.ft.; Animal House – 560 sq.ft.; Museum - 400 sq.ft.; UG (Research Lab) - 480 sq.ft.
31. Number of students receiving financial assistance from college, university, government or other agencies:
- An average of 60% students get financial assistance from Central/ State Government agencies in the form of Scholarship/Freeship
32. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts: Nil
33. Teaching methods adopted to improve student learning:
- ICT based teaching
34. Participation in Institutional Social Responsibility (ISR) and Extension activities: Nil
35. SWOC analysis of the department and Future plans:

Strengths:
1. Well equipped laboratories with ICT facility and internet facility
2. Rare specimens in Museum used for reference
Weaknesses:
1. Shortage of water during summer
2. Old laboratories; difficult to maintain
Opportunities:
1. To accommodate more students in research projects
Challenges:
1. To make available additional space

Future Plans

- To give more emphasis on basic research for students.



ABBREVIATIONS

API	Academic Performance Indicator
SPPU	Savitribai Phule Pune University, Pune
BCUD	Board of College and University Development
BSR	Basic Scientific Research
BRNS	Board of Research in Nuclear Science
B.Voc.	Bachelor of Vocation
BOS	Board of Studies
CAS	Career Advancement Scheme
CPE	College with Potential for Excellence
CRO	Cathode Ray Oscilloscope
CEE	Centre for Environmental Education
CBCS	Choice Based Credit System
CASH	Cell Against Sexual Harassment
DAE	Department of Atomic Energy
DES	Deccan Education Society
DST	Department of Science and Technology
ERDAS	Earth Resource Data Analysis System
ERP	Enterprise Resource Planning
FIST	Funds for Improvement of Science and Technology
FTIR	Fourier Transformed Infrared -Spectroscopy
GB	Governing Body
GBR	Governing Body Resolution
GMC	Gymkhana Managing Committee
GEMS	Governing Educational Management System
GC	Gas Chromatography
GSI	Geological Survey of India
HEASARC	High Energy Astrophysics Science Archive Research Centre
HPLC	High Performance Liquid Chromatography
ISRO	Indian Space Research Organization
IUCAA	Inter University Centre for Astronomy and Astrophysics
INNAD	IUCAA Node for Astronomy Astrophysics Development
IEEE	Institute of Electrical and Electronics Engineers
IISER	Indian Institute of Science Education and Research

JNCASR	Jawaharlal Nehru Centre for Advanced Scientific Research
JAWS	Job Access With Speech
KKPKP	Kagaz Kach Patra Kashtakari Panchayat
LMC	Local Managing Committee
LIC	Local Inspection Committee
LC-MS	Liquid Chromatography and Mass Spectra
NMR	Nuclear Magnetic Resonance
NEUPA	National University of Educational Planning and Administration
MPSC	Maharashtra Public Service Commission
MOES	Ministry of Earth Sciences
OJT	On-Job Training
OIP	Observation Internship programme
OPAC	On-Line Public Access Catalogue
PBAS	Performance Based Assessment System
PICC	Pune Inter College Consortium
RCC	Research Coordination Committee
SPSS	Statistical Package for Social Sciences
SOEC	Social Outreach and Enabling Centre
SPEED	Society for Promotion of Excellence in Electronics Discipline
STP	Science and Technology Park
STP Cables	Shielded Twisted Pair
SEM	Scanning Electron Microscopy
TERI	The Energy Research Institute
TEM	Transmission Electron Microscopy
UGC	University Grants Commission
UPSC	Union Public Service Commission
UNCSD	United Nations Conference on Sustainable Development
UV-Vis	Ultraviolet Visible
UTP	Unshielded Twisted Pair
XRD	X-ray Diffraction
ZSI	Zoological Survey of India



DECLARATION BY THE HEAD OF INSTITUTION



Deccan Education Society's

FERGUSSON COLLEGE PUNE

Pune 411 004, Maharashtra State, INDIA

Affiliated to University of Pune (ID. No. PU/PN/AS/002/1885)

HSC Board Pune Divisional Board No. J-11-11-001



(Estd. 1885)

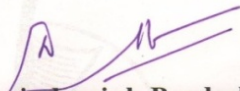
ACCREDITED BY NAAC WITH 'A' GRADE WITH A CGPA C

Declaration by the Head of the Institution

I certify that, the data included in this Self Study Report (SSR) is true to the best of my knowledge.

This SSR is prepared by the institution after internal discussions, and no part thereof has been outsourced.

I am aware that the Peer Team will validate the information provided in this SSR during the Peer Team visit.



Dr. Ravindrasinh Pardeshi
PRINCIPAL

Place: Pune

Date: 17th April, 2015

website : www.fergusson.edu Telephone : 020 - 30866000, 30866006 email : principal@fergusson.edu

CERTIFICATE OF COMPLIANCE



Deccan Education Society's

FERGUSSON COLLEGE PUNE

Pune 411 004, Maharashtra State, INDIA

Affiliated to University of Pune (ID. No. PU/PN/AS/002/1885)

HSC Board Pune Divisional Board No. J-11-11-001



(Estd. 1885)

ACCREDITED BY NAAC WITH 'A' GRADE WITH A C

CERTIFICATE OF COMPLIANCE

This is to certify that, **Deccan Education Society's, Fergusson College, Pune, Maharashtra**, fulfils all norms:

1. Stipulated by **Savitribai Phule Pune University, Pune** (formerly University of Pune).
2. Regulatory council/ Body- **University Grants Commission**
3. The affiliation and recognition is valid as on date.

It is noted that NAAC's accreditation, if granted, shall stand cancelled automatically, once that institution loses its University affiliation or Recognition by the Regulatory Council, as the case may be.

In case the undertaking submitted by the institution is found to be false then the accreditation given by NAAC is liable to be withdrawn. It is also agreeable that the undertaking given to NAAC will be displayed on the college website.



Date: 16th March, 2015
Institution: **Deccan Education Society's
Fergusson College, Pune, Maharashtra**


Dr. Ravindrasinh G. Pardeshi
PRINCIPAL

Place: **Pune, Maharashtra**

website : www.fergusson.edu Telephone : 020 - 30866000, 30866006 email : principal@fergusson.edu

Annexure-I: Approval of Courses by Affiliating University

Savitribai Phule Pune University

Telephone Nos. :
020 - 25691233
25601258
25601259
25601257



ACADEMIC SECTION
Ganeshkhind, Pune - 411007, INDIA
Telegraph : 'UNIPUNE'
Fax : 020-25691233
Website : www.unipune.ac.in
E-mail : dyracademic@unipune.ac.in

Ref. No. : CA/8582

Date : 26.11.2014

TO WHOM IT MAY CONCERN


This is to certify that Deccan Education Society's Fergusson College Pune, Pune-411004 Maharashtra is affiliated to the Savitribai Phule Pune University since the inception of the University and recognized by the University Grants Commission and the following courses/ subjects are taught in the said college as stated below the approval and it's Id no.is PU/PN/AS/002/1885.

Courses	Duration of the course	Affiliation (Permanent/ Temporary)	Validity period
First to Third Year B.A.	3 Years	Permanent	-----
First to Third Year B.Sc. ,	3 Years	Permanent	-----
First to Third Year B.Sc.Biotechnology	3 Years	Permanent	From 2013-14
First to Third Year B.Sc. Computer Science	3 Years	Permanent	From 2012-13
First to Third Year B.Sc.Animation	3 Years	Temporary	Up to 2014-15
First to Third Year B.Voc. in Media and Communication ,Digital Art and Animation	3 Years	Temporary	Up to 2014-15
First & Second Years M.A in Marathi, Economics & English	2 Years	Permanent	-----
First & Second Years M.A Psychology	2 Years	Temporary	Up to 2014-15
First & Second Years M.Sc. in Organic Chemistry, Biochemistry, Analytical Chemistry, Biotechnology, Computer Science, Electronic Science, Environmental Science, Geology, Microbiology, Physics	2 Years	Permanent	From 2013-14
First & Second Years M.Sc Botany,	2 Years	Temporary	Up to 2014-15
Three Years M.C.A. (Master of Computer Applications)	3 Years	Permanent	From 2013-14
Three Years M.Tech. (Industrial Mathematics with Computer Applications)	3 Years	Permanent	From 2013-14
Ph.D. in Economics Botany Chemistry, Electronic Science, Environmental Science, Geology, Mathematics & Physics, Zoology	-----	Temporary	Up to 2014-15

The said certificate is issued as per the request made by the Principal of the college vide his letter no. FCP/IQAC/98/2014-15 / Dated: 20/10/2014

DIRECTOR
(B.C.U.D)

Annexure-II: UGC recognition under Sections 2(f) and 12 (B) of UGC Act

<p>Ph. 23236351, 23232701, 23237721 23234116, 23235733, 23232317 23236735, 23239437, 23239627</p> <p>Extension No. 413 (CPP-I Colleges) UGC Website: www.ugc.ac.in F. No. 1-1/2013 (CPP-I/C)</p> <p>The Principal, Fergusson College Pune – 411 004 Maharashtra</p> <p>Sub: - Recognition of Fergusson College, Pune, Dist. Pune - 411 004, Maharashtra under Section 2 (f) & 12 (B) of the UGC Act, 1956.</p> <p>Sir,</p> <p>With reference to the letter no.FCP/IQAC/97/14-15 dated 09.10.2014 on the above subject, I am directed to say that the name of Fergusson College, Pune, Dist. Pune - 411 004, Maharashtra established in the year of 1885, affiliated to Pune University, Pune is included in the list of Colleges maintained under Section 2(f) & 12(B) of the UGC Act, 1956 under the head Government College teaching upto Master's Degree.</p>	 Speed post	<p>विश्वविद्यालय अनुदान आयोग बहादुरशाह जफर मार्ग नई दिल्ली-110 002 UNIVERSITY GRANTS COMMISSION BAHADURSHAH ZAFAR MARG NEW DELHI-110 002</p> <p>November, 2014</p> <p>12 4 NOV 2014</p> <p>Yours faithfully, <i>Charan Dass</i> (Charan Dass) Under Secretary</p>
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Dr. Sameer Tendalkar
IQAC
[Signature]

29 NOV 2014
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Annexure-III: UGC XIIth Plan General Development Grant Copy from UGC

UNIVERSITY GRANTS COMMISSION
Western Regional Office
Ganeshkhind, Pune. - 411007

Phones: (020) 25691477
25691178, 25696897
Fax: (020) 25691477
Web site: www.ugc.ac.in

No. F.9-074/13 (WRO) XII Plan.

Dated: 22 MAR 2014

The DDO
University Grants Commission (WRO)
Pune-411 007.

Subject: Release of "Adhoc on Account Grant" under the Scheme of Under Graduate Development Assistance during XII Plan period.

Sir/Madam,

I am directed to convey the sanction of the Commission for payment of Rs.620000 /- (Rupees six lakhs twenty thousand only) to FERGUSSON COLLEGE, F C ROAD, F C ROAD, PUNE -411004 as an adhoc grant for the XII plan period.

XI Plan Allocation	40% of XI Plan Grant	XII Plan Provisional Sanction (Adhoc)	
1550000	620000	Grant-in-aid /Recurring (31)	186000
		Capital Assets (35)	434000
		Total	620000

The sanction amount is debatable to head of account as detailed below.

XII Plan Provisional Allocation	Amount sanction (Rs.)	For SC 15% (Rs.)	For ST 7.5% (Rs.)	For GENERAL (77.5%) (Rs.)
Grant-in-aid /Recurring (31)	186000	27900	13950	144150
Capital Assets (35)	434000	65100	32550	336350

- The sanctioned grant may be treated as " Adhoc On account" grant for XII Plan. The allocation made now is Provisional Allocation and the final allocation would be made on finalization of XII Plan Guidelines. The grants sanctioned now would be adjusted against the XII Plan allocation to be made subsequently.
 - The grant shall not be used for self-financing/ non-grant/unaided courses & teachers.
 - If it come to our notice that the college is Self-finance. The entire amount has to be refunded to UGC(WRO), Pune with penal interest @ 10% per annum.
 - The grant can be used for renovation/addition/alteration of building (including renovation of heritage building), books & journals, equipments, laboratory, connectivity, career and counseling cell, cultural activities, day care center, annual maintenance contract and development of ICT, Human Rights & Duties Education (HRDE) and instrumentation Maintenance facilities (IMF).
- The sanctioned amount is debit to the major Head 2 (B) for General, 2D(i) for SC, 2D(ii) for ST respectively and is valid for the financial year 2013-14
 - The amount of the grants shall be drawn by the Account Officer (DDO), UGC (WRO), Pune on the Grants-in-aid bill and shall be disbursed to and credited to the Principal of the college through Electronic mode as per the following details:

a	Details (Name & Address) of Accounts Holder:	The Principal, FERGUSSON COLLEGE, F C ROAD, PUNE-411004.
b	Account No.:	1176605351
c	Name & Address of Bank Branch:	CENTRAL BANK OF INDIA, FERGUSSON COLLEGE CAMPUS
d	MICR Code:	
e	IFSC Code:	CBIN0284118
	Type of Account	Saving Bank Account

- The grant is subject to adjustment on the basis of Utilization Certificate in the prescribed Performa submitted by the University/ College/ Institution.
- The University/ College shall maintain proper accounts of the expenditure out of the grants, which shall be utilized, only on approved items of expenditure.

Fergusson College, Pune-4.
13 MAY 2014
Inward No 232
Signature: [Signature]

shir A N G
copy to
DR N M Kulkarni
Dr S S Tendalkar

Annexure IV: NAAC - 1st Cycle Certificate



Annexure V: NAAC - 2nd Cycle Certificate



Annexure VII: List of Subjects - Syllabus Revision

Sr.No.	Subject	Syllabus Revision
1	B.A. Economics	2013
2	M.A. Economics	2013
3	B.A. English	2013
4	M.A. English	2013
5	B.A. French	2013
6	Geography (upto S.Y.B.A.)	2013
7	B. A. German	2013
8	B.A. Hindi	2013
9	B.A. History	2013
10	B.A. Marathi	2013
11	M.A. Marathi	2013
12	B.A. Philosophy	2013
13	B.A. Political Science	2013
14	B.A. Psychology	2013
15	M.A. Psychology	2013
16	B.A. Sanskrit	2013
17	B.A. Sociology	2013
18	B.Sc. Animation	2013
19	B.Sc. Biotechnology	2013
20	M.Sc. Biotechnology	2013
21	B.Sc. Botany	2013
22	M.Sc. Botany	2013
23	B.Sc. Chemistry	2013
24	M.Sc. Organic Chemistry	2013
25	M.Sc. Analytical Chemistry	2013
26	M.Sc. Biochemistry	2013
27	B.Sc. Computer Science	2013
28	M.Sc. Computer Science	2013
29	M.C.A	2013
30	B.Sc. Electronic Science	2013
31	M.Sc. Electronic Science	2013
32	B.Sc. Environmental Science	2013
33	M.Sc. Environmental Science	2013
34	B.Sc. Geology	2013
35	M.Sc. Geology	2013
36	B.Sc. Mathematics	2013
37	M. Tech. Industrial Mathematics with Computer Applications	2013
38	B.Sc. Microbiology	2013
39	M.Sc. Microbiology	2013
40	B.Sc. Physics	2013
41	M.Sc. Physics	2013
42	B.Sc. Statistics	2013
43	B.Sc. Zoology	2013
44	Vocational Biotechnology	2013
45	Vocational Electronic Equipment Maintenance	2013
46	Vocational Photography	2013

Annexure VIII: Participation of teachers in Orientation / Refresher courses in last five years

Sr. No.	Name of Teacher	Title of Course	Name of University / College / Institute	Duration (DD / MM / YY)	
				From	To
Department of Biotechnology					
1.	Dr. Dhanashri Godbole	General Orientation Programme	Academic Staff College, SPPU, Pune	7/9/2011	4/10/2011
2.	Dr. Sonali Joshi	General Orientation Programme	Academic Staff College, SPPU, Pune	1/11/2011	28/11/2011
3.	Dr. Shampa Chakraborti	General Orientation Programme	Academic Staff College, SPPU, Pune	1/03/2012	28/03/2012
Department of Botany					
1.	Dr. Jogita Pandkar	Refresher Course in Environmental Sc.	Academic Staff College, SPPU, Pune	07/03/2012	27/03/2012
2.	Dr. Jogita Pandkar	Refresher Course in Environmental Sc.	Academic Staff College, SPPU, Pune	01/03/2013	21/03/2013
3.	Smt. Swarupa Chowdhury	Refresher course in Quantitative Biology	Department of Microbiology, SPPU, Pune	02/02/2011	22/02/2011
4.	Dr. Rupali Seth	Refresher Course in Environmental Sc.	Academic Staff College, SPPU, Pune	01/03/2013	21/03/2013
Department of Chemistry					
1.	Smt. Ujwala Patil	Refresher Course in Environmental science	Academic Staff College, SPPU, Pune	01/03/2011	21/03/2011
2.	Dr. Parbati Bandyopadhyay	Refresher Course in Environmental science	Academic Staff College, SPPU, Pune	07/03/2012	27/03/2012
3.	Smt. Jatinder Kaur	General Orientation Programme	Academic Staff College, SPPU, Pune	03/08/2011	30/08/2011
4.	Smt. Jatinder Kaur	Refresher Course in Environmental science	Academic Staff College, SPPU, Pune	01/03/2013	21/03/2013
5.	Smt. Ujjwala Gaware	General Orientation Programme	Academic Staff College, SPPU, Pune	11/07/2013	07/08/2013
6.	Shri. Nitin Ganjave	General Orientation Programme	Academic Staff College, SPPU, Pune	03/12/2012	30/12/2012
7.	Shri. Nitin Ganjave	Refresher Course in Chemistry	Academic Staff College, SPPU, Pune	11/11/2013	01/12/2013
8.	Shri. Sushil Kumar Dhanmane	Refresher Course in Environmental science	Academic Staff College, SPPU, Pune	01/03/2011	21/03/2011
Department of Computer Science					
1.	Smt. Kavita Khobragade	Refresher-Computer Networks	Academic Staff College, SPPU, Pune	09/03/2011	29/03/2011
2.	Smt. Deepali Dhainje	Refresher-Computer Networks	Academic Staff College, SPPU, Pune	09/03/2011	29/03/2011
3.	Smt. Aparna Vaidyanathan	Refresher-Computer Networks	Academic Staff College, SPPU, Pune	09/03/2011	29/03/2011
4.	Smt. Vedavati Pethe	General Orientation Programme	Academic Staff College, SPPU, Pune	01/02/2013	28/02/2013
5.	Smt. Anjali Naik	Refresher Course	Academic Staff College, SPPU, Pune	09/03/2011	29/03/2011
6.	Shri. Dhiraj Nage	General Orientation Programme	Academic Staff College, SPPU, Pune	-	-
Department of Economics					
1.	Dr. Pradeep Apte	Research Methodology in Social Science	Himachal Pradesh University	03/03/2014	22/03/2014

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Electronic Science					
1.	Dr. Madhukar Zambare	Refresher Course in Electronics	Academic Staff College, SPPU, Pune	08/11/2011	28/11/2011
2.	Dr. Sachin Khedkar	Refresher Course in Electronics	Academic Staff College, SPPU, Pune	08/11/2011	28/11/2011
Department of English					
1.	Dr. Sujata Bamane	Refresher Course in Information Technology	Academic Staff College, SPPU, Pune	11/11/2011	01/12/2011
2.	Shri. Chetan Sonawane	Refresher Course in Folkloristics & Semiotics	Academic Staff College, NEHU, Shillong	15/09/2012	15/10/2012
3.	Shri. Chetan Sonawane	Refresher Course in English	Academic Staff College, Jamia Milia University, Delhi	25/02/2013	16/03/2013
4.	Shri. Shardool Thakur	Refresher Course in Folkloristics & Semiotics	Academic Staff College, NEHU, Shillong	15/09/2012	15/10/2012
5.	Dr. Chitra Sreedharan	Refresher Course in Information Technology for Language Teachers	Academic Staff College, SPPU, Pune	11/11/2011	1/12/2011
6.	Shri. Prasanna Deshpande	General Orientation Programme	Academic Staff College, SPPU, Pune	03/03/2011	30/03/2011
7.	Shri. Prasanna Deshpande	Refresher Course in critical theories	Academic Staff College, SPPU, Pune	03/01/2013	23/01/2013
8.	Smt. Kajal Chakravarti	Refresher Course in Literature, Films and Media	North Bengal University	31/01/2012	20/02/2012
Department of Environmental Science					
1.	Smt. Rupali Gaikwad	Refresher Course	Academic Staff College, SPPU, Pune	07/03/2012	27/03/2012
2.	Smt. Rupali Gaikwad	RS-GIS	C-DAC, Pune	04/06/2012	24/06/2012
3.	Smt. Priti Kulkarni	Course on RS and GIS Applications in Forestry/ Ecology/ Wild Life Sciences/ Environmental Science	Indian Institute of Remote Sensing (ISRO), Department of Space, Dehradun	05/05/2014	27/06/2014
4.	Smt. Shraddha Karikar	RS-GIS	C-DAC, Pune	04/06/2012	24/06/2012
5.	Dr. Ashish Mane	Refresher Course	Academic Staff College, Kerala University	01/10/2012	22/10/2012
6.	Dr. Ashish Mane	Course on RS and GIS in Coastal and Ocean Sciences	Indian Institute of Remote Sensing (ISRO), Department of Space, Dehradun	05/05/2014	27/06/2014
Department of Geology					
1.	Dr. Shyam Mude	General Orientation Programme	Academic Staff College, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	03/10/2012	23/10/2012
2.	Dr. Shyam Mude	Refresher Course in Earth Science	Academic Staff College, SPPU, Pune	2012	October 2012
Department of German					
1.	Smt. Amruta Kulkarni	General Orientation Programme	Academic Staff College, SPPU, Pune	01/03/2012	28/03/2012
Department of Hindi					
1.	Shri. Dhotre Santosh	General Orientation Programme	Academic Staff College, SPPU, Pune	01/03/2012	28/03/2012

Department of History					
1.	Dr. Madhuri Mandlik	Refresher Course	Academic Staff College, SPPU, Pune	24/2/2012	15/3/2012
Department of Marathi					
1.	Dr. Anand Katikar	Refresher Course	Mumbai University, Mumbai	23/09/2013	12/10/2013
Department of Mathematics					
1.	Smt. Vrushali Limaye	General Orientation Programme	Academic Staff College, SPPU, Pune	1/02/2013	28/02/2013
2.	Shri. Manish Agalave	General Orientation Programme	Academic Staff College, SPPU, Pune	15/09/2011	14/10/2011
3.	Shri. Nanasaheb Phatangare	General Orientation Programme	Academic Staff College, SPPU, Pune	1/03/2012	28/03/2012
4.	Shri. Mayur Kshirsagar	Advanced Instructional Schools	Academic Staff College, SPPU, Pune	3/06/2013	22/06/2013
5.	Shri. Mayur Kshirsagar	Advanced foundation school- III	Academic Staff College, SPPU, Pune	26/05/2014	21/06/2014
Department of Microbiology					
1.	Dr. Suneeti Gore	Refresher Course in Life Sciences	Academic Staff College, SPPU, Pune	03/10/2012	23/10/2012
2.	Dr. Shivaji Waghmare	General Orientation Programme	Academic Staff College, University of Rajasthan	02/09/2013	28/09/2013
Department of Philosophy					
1.	Smt. Radhika Jadhav	General Orientation Programme	Academic Staff College, SPPU, Pune	01/03/2012	28/03/2012
2.	Dr. Deepti Gangavane	Refresher Course	Academic Staff College, SPPU, Pune	05/01/2013	25/01/2013
Department of Physics					
1.	Dr. Kishor Sonawane	Refresher cum General Orientation Programme in 'Experimental Techniques in Physics (PHY-UT- 603)'	Department of Physics, SPPU, Pune	17/12/2013	22/12/2013
2.	Dr. Haribhau Gholap	Refresher Course in Physics (Soft Condensed Matter)	Department of Physics, SPPU, Pune	11/11/2013	01/12/2013
3.	Dr. Sunil Kulkarni	General Orientation Programme	Academic Staff College, SPPU, Pune	03/03/2011	30/03/2011
4.	Dr. Sunil Kulkarni	Refresher course in Physics	Academic Staff College, SPPU, Pune	08/10/2012	28/10/2012
5.	Smt. Pallavi Dixit	General Orientation Programme	Academic Staff College, SPPU, Pune	01/03/2013	28/03/2013
6.	Smt. Pallavi Dixit	Refresher course in pure sciences (Physics, Chemistry and Maths)	Guru Nanak Dev University, Amritsar	15/05/2014	04/06/2014
7.	Dr. Alka Deshmukh	Refresher cum General Orientation Programme in 'Experimental Techniques in Physics (PHY-UT- 603)'	Department of Physics, SPPU, Pune	17/12/2013	22/12/2013

Department of Political Science					
1.	Smt. Arati Khatu	Refresher Course in (Political Science)	Department of Defense & Strategic Studies, under the auspices of the Academic Staff College, SPPU, Pune	10/01/2011	30/01/2011
2.	Smt. Arati Khatu	Refresher Course in (Political Science)	Department of Defence & Strategic Studies, under the auspices of the Academic Staff College, SPPU, Pune	5/01/2013	25/01/2013
Department of Psychology					
1.	Shri. Anil Sawarkar	General Orientation Programme	Academic Staff College SPPU, Pune	03/12/2012	30/12/2012
2.	Shri. Anil Sawarkar	Refresher Course	Academic Staff College SPPU, Pune	01/11/2013	21/11/2013
3.	Shri. Vijay Rangari	Orientation Course	Vidyapratishthan, Baramati and SPPU, Pune	25/06/2012	22/07/2012
4.	Shri. Vijay Rangari	Refresher Course	Gujarat University, Ahmedabad	02/06/2014	22/06/2014
5.	Dr. Megha Deuskar	Orientation Programme	Academic Staff College SPPU, Pune	01/03/2012	28/03/2012
6.	Dr. Megha Deuskar	Refresher Course	Academic Staff College SPPU, Pune	01/11/2013	21/11/2013
7.	Smt. Sheetal Ruikar	Orientation Programme	Academic Staff College SPPU, Pune	03/12/2012	30/12/2012
Department of Statistics					
1.	Smt. Nileema Bhalerao	Computer Applications (Statistics)	Academic Staff College SPPU, Pune	11/11/2013	1/12/2013
2.	Smt. Deepa Kulkarni	Computer Applications (Statistics)	Academic Staff College SPPU, Pune	11/11/2013	1/12/2013
3.	Smt. Charuta Dabir	General Orientation Programme	Academic Staff College, SPPU, Pune	3/12/2012	30/12/2012
Department of Zoology					
1.	Dr. Anukriti Nigam	Refresher course in Environmental science (Zoology)	Academic Staff College SPPU, Pune	07/03/2012	27/03/2012
2.	Dr. Sanjay Kumbhar	Refresher course in Environmental science (Zoology)	Academic Staff College SPPU, Pune	07/03/2012	27/03/2012
3.	Dr. Sanjay Kumbhar	Refresher Course in Biosciences and Bioengineering(ID)	Academic Staff College Sardar Patel University, Vallabh Vidyanagar, Anand (Gujarat)	02/06/2014	22/06/2014
4.	Dr. Pramod Phirke	General Orientation Programme	Academic Staff College SPPU, Pune and VP's Arts, Science, Commerce College, Baramati	25/06/2012	22/07/2014
5.	Dr. Pramod Phirke	Refresher Course in Biosciences and Bioengineering(ID)	Academic Staff College, Sardar Patel University, Vallabh Vidyanagar, Anand (Gujarat)	02/06/2014	22/06/2014

Annexure IX: List of Major and Minor Research Projects (Completed and Ongoing)

S r. N o.	Name of Teacher	Title of Project	Fund- ing Agency	Amt. San- ctioned (Rs.)	Major / Minor	Duration (Month & Year)		Status (Completed / Ongoing)
						From	To	
1	Dr. Girish Pathade	Effect of Lead and Cromium on some biochemical parameters of <i>Umbolium vesitirium</i> collected from Malvan.	BCUD, SPPU, Pune	225000	Minor	2012	2014	Completed
2	Dr. Manisha Dharmadhikari	'Screening of secondary metabolites from Lichen thalli of Western Ghats for antimicrobial activity'	BCUD, SPPU, Pune	225000	Minor	2009	2012	Completed
3	Dr. Shankar Laware	Production of value added Liquid organic fertilizer	BCUD, SPPU, Pune	170000	Minor	2009	2012	Completed
4	Dr. Bharat Shinde	Study of AM fungi as Biocontrol agents for rhizome rot of with Ginger (<i>Zingiber officinale</i> Rosc.)	BCUD, SPPU, Pune	300000	Minor	2009	2011	Completed
5	Dr. Minakshi Mahajan	Extramural study of Aeromycoflora over a Jowar crop field near Pune	BCUD, SPPU, Pune	200000	Minor	2008	2010	Completed
6	Dr. Minakshi Mahajan	Study of microbial population in the ambient air of poultry shed.	BCUD, SPPU, Pune	200000	Minor	2008	2010	Completed
7	Dr. Jogita Pandkar	Aerophycological studies of Pune environment.	BCUD, SPPU, Pune	50000	Minor	2009	2012	Completed
8	Dr. Rajendra Konde Deshmukh	Synthesis of B-Asarone	BCUD, SPPU, Pune	150000	Minor	2009	2010	Completed
9	Dr. Meenakshi Suresh	Screening, Isolation and Purification of enzymes of Industrial importance from Jack fruit seeds	BCUD, SPPU, Pune	100000	Minor	2009	2012	Completed
10	Dr. Parbati Bandyopadhyay (PI)	Design and synthesis of some biologically important thiosemicarbazones and study their coordination behaviour towards transition metals transition metal	BCUD, SPPU, Pune	150000	Minor	2011	2013	Completed

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11	Dr. Tanaji Kadam	Quantitative estimation of transition metals by chromatography	BCUD, SPPU, Pune	225000	Minor	2012	2014	Completed
12	Shri. Jayant Khedkar	Speaker Independent Automatic Recognition System for Marathi Language	BCUD, SPPU, Pune	300000	Minor	2012	2012	Completed
13	Smt. Rupali Gaikwad	Studies on effluent of laundry units: Treatment, toxicity and its fate in Environment.	BCUD, SPPU, Pune	190000	Minor	2012	2014	Completed
14	Smt. Shraddha Karikar	Habitat Quality Assessment of water bodies with special emphasis on Birds as Bio-indicators.	BCUD, SPPU, Pune	180000	Minor	2012	2014	Completed
15	Smt. Priti Kulkarni	Community participation in conservation of sacred Groves of Maval Tahsil, Pune	BCUD, SPPU, Pune	180000	Minor	2012	2014	Completed
16	Shri. Vinayak Chavan	To study present lizards diversity and habitat preferences of lizards by using Remote Sensing and GIS	BCUD, SPPU, Pune	170000	Minor	2012	2014	Completed
17	Shri. Amir Mulla	“Studies on the Effluent of Laundry Units: Treatment, Toxicity and its Fate in Environment”	BCUD, SPPU, Pune	235000	Minor	2012	2014	Completed
18	Smt. Meghna Kulkarni and Smt. Vidula Bindu	Studies on improvement of alcohol tolerance of yeast for biofuel production	BCUD, SPPU, Pune	270000	Minor	2012	2014	Completed
19	Dr. Raka Dabhade	Implementation of HAM radio for meteor shower observation	BCUD, SPPU, Pune	250000	Minor	2009	2011	Completed
20	Dr. Kishor Sonawane	Synthesis and Characterization of Transparent conducting Oxide (TCO) thin films for Gas sensing applications	BCUD, SPPU, Pune	250000	Minor	2009	2011	Completed
21	Dr. Kailas Sapnar	Studies on synthesis and characterization of ZnO nanoparticles and applications	BCUD, SPPU, Pune	150000	Minor	2009	2011	Completed

22	Dr. Ashish Yengantiwar	Deposition & Characterization of hydrophobic & hydrophilic thin films	BCUD, SPPU, Pune	250000	Minor	2009	2011	Completed
23	Dr. Haribhau Gholap	Organometallic synthesis of semiconductor nanoparticles	BCUD, SPPU, Pune	250000	Minor	2009	2011	Completed
24	Dr. Kailas Sapnar	Synthesis & Characterization of TiO ₂ & ZnO nanoparticles & study of 6 MeV electron irradiation	BCUD, SPPU, Pune	150000	Minor	2011	2013	Completed
25	Dr. Sunil Kulkarni	Development of Humidity sensing materials using ferrites	BCUD, SPPU, Pune	150000	Minor	2011	2013	Completed
26	Dr. Fakir Mohammad Attar	Measurement of natural radioactivity in building materials in coastal regions of Maharashtra State	BCUD, SPPU, Pune	300000	Minor	2012	2014	Completed
27	Dr. Shankar Laware	Assessment of Arishtas (Fermented Biomedicines) for their Antioxidant potentials	BCUD, SPPU, Pune	200000	Minor	2013	2015	Ongoing
28	Dr. Bharat Shinde	Fungus mediated synthesis of silver nanoparticles and their antimicrobial applications	BCUD, SPPU, Pune	220000	Minor	2013	2015	Ongoing
29	Dr. Ashish Yengantiwar	Deposition of Zinc Oxide based Nanostructures for Optoelectronics Applications	BCUD, SPPU, Pune	260000	Minor	2013	2015	Ongoing
30	Dr. Haribhau Gholap	Synthesis of Semiconductor Quantum dots (QDs) - Metal Oxides (MOs) Nanocomposites by Chemical Method	BCUD, SPPU, Pune	270000	Minor	2013	2015	Ongoing
31	Shri. Anil Sawarkar	The efficacy of Rational Emotive Behavior Therapy as a group therapy in dealing with anger, anxiety and depression among young adults	BCUD, SPPU, Pune	102000	Minor	2013	2015	Ongoing

32	Dr. Shobhana Abhyankar	“Postpositive” a positive psychology questionnaire: construction and psychometric assessment.	BCUD, SPPU, Pune	90000	Minor	2014	2016	Ongoing
33	Dr. Sanjeev Nalawade	Atlas of wild mammals of Pune District (MS) India	BCUD, SPPU, Pune	90000	Minor	2014	2016	Ongoing
34	Dr. Nandkumar Mandlik	Development of Nano-phosphorous and study of thermo luminescence, photoluminescence and optically stimulated luminescence of for gamma and electron dosimetry.	BCUD, SPPU, Pune	250000	Minor	2014	2016	Ongoing
35	Dr. Ashish Mane	Treatment of selected industrial effluents by using specially design unit in combination with electro-coagulation and low cost eco-friendly materials	BCUD, SPPU, Pune	200000	Minor	2014	2016	Ongoing
36	Smt. Shubhangi Thakar	Statistical analysis of various systems and application logs found on servers in local area network.	BCUD, SPPU, Pune	120000	Minor	2014	2016	Ongoing
37	Dr. Raka Dabhade	Solar observations with fabricated celeostat	BCUD, SPPU, Pune	180000	Minor	2014	2016	Ongoing
38	Dr. Suniti Gore	Reduction in levels of cholesterol and tri glyceride using probiotics	BCUD, SPPU, Pune	180000	Minor	2014	2016	Ongoing
39	Smt. Swarupa Chowdhury	Use nanosized ZnO and Fe ₃ O ₄ particles for increasing seed germination efficiency in groundnut.	BCUD, SPPU, Pune	240000	Minor	2014	2016	Ongoing
40	Smt. Jatinder Kaur	Design, synthesis and biological evaluation of novel hydrazones and their metal complexes as potential anticancer agents.	BCUD, SPPU, Pune	220000	Minor	2014	2016	Ongoing

Self Study Report : NAAC - 3rd Cycle

41	Shri. Manojkumar Kukade	Development of Electronic-nose for spices evaluation	BCUD, SPPU, Pune	180000	Minor	2014	2016	Ongoing
42	Shri. Manish Agalave	Study of topological aspects of lattice implication algebras	BCUD, SPPU, Pune	165000	Minor	2014	2016	Ongoing
43	Shri. Nanasahab Phatangare	Astudy of ring of integers in quadratic number fields	BCUD, SPPU, Pune	110000	Minor	2014	2016	Ongoing
44	Dr. Rupali Seth	Assessment of genotypic variation for salinity tolerance of some commonly cultivated varieties of tomato in Mah.	UGC	180000	Minor	2010	2013	Completed
45	Dr. Rajendra Konde Deshmukh	Synthesis of Aziridone derivative	UGC	75000	Minor	2009	2010	Completed
46	Dr. Meenakshi Suresh	Biochemical studies on industrial enzymes in cultures isolated from soil samples	UGC	65000	Minor	2008	2010	Completed
47	Shri. Narayan Firke	Synthesis of 1,2-O-isopropylidene-3-aminomethyl-5,6-O-isopropylidene-D-Glucofuranose & it's derivative as chiral auxillary for asymmetric synthesis.	UGC	60000	Minor	2008	2010	Completed
48	Dr. Sharmishtha Matkar	Globalization of Software Industry: The Case of the Pune Software Industry	UGC	65000	Minor	2009	2011	Completed
49	Dr. Nitin Kulkarni	Development of Embedded interfaces to study body response to externally administered electrical/ em signals	UGC	200000	Minor	2009	2011	Completed
50	Dr. Madhuri Gokhale	Integrating the Theory of Multiple Intelligences in a Poetry Classroom	UGC	105000	Minor	2011	2014	Completed

51	Dr. Pradeep Kumar Sarkar and Dr. Shyam Mude	Provenance study of the clastic and non-clastic sedimentary sequence of the Jaisalmer Basin, Western Rajasthan	UGC	175000	Minor	2008	2010	Completed
52	Dr. Shyam Mude	Micropalaeontological and Palichnological investigation of the Penganga sediments along Adilabad-Chandrapur sector, India	UGC	150000	Minor	2008	2010	Completed
53	Dr. Shyam Mude	Palaeoological, Palichnological, Sedimentological and Neomorphic investigations from the Paleogene-Neogene Sediments of the Narmada block of the Cambay Basin Gujarat, India.	UGC	201500	Minor	2009	2012	Completed
54	Dr. Pradeep Kumar Sarkar and Dr. Ram Mache	Heavy mineral analysis and surface micro-textures of quartz grains from the clastic sedimentary sequence of the Jodhpur Group (Pokaran Boulder Bed Formation, Sonia 39 Sandstone Formation and the Girbhakar Sandstone Formation) of sediments.	UGC	110000	Minor	2012	2014	Completed
55	Shri. Subhash Shende	Statistical Modeling of Maternal –Infant HIV transmission	UGC	180000	Minor	2012	2014	Completed
56	Dr. Kishor Pendharkar	Survey of Cestode parasites of goat from Pune District	UGC	50000	Minor	2008	2010	Completed
57	Dr. Sameer Terdalkar	Isolation and Identification of Microorganisms from mangrove Species of <i>Rhizophora mucronata</i> from Bhatye Estuary, Ratnagiri, Maharashtra.	UGC	188000	Minor	2011	2013	Completed

Self Study Report : NAAC - 3rd Cycle

58	Dr. Anukriti Nigam	Study of Limnological Parameters of Khadakwasala reservoir as conservation site for threatened fish Mahseer.	UGC	100000	Minor	2011	2013	Completed
59	Dr. Shobhana Abhyankar and Smt. Sheetal Ruikar (Co-ordinators)	Micro City	Volks wagen	200000	Minor	2012	2013	Completed
60	Dr. Meenakshi Suresh (ID)	Biochemical studies on the effects of Sudarshan Kriya and Mudra pranayam on Human body	UGC	415000	Minor	2014	2016	Ongoing
61	Smt. Jatinder Kaur	Synthesis of Nickel based bi metallic nanoparticles for C-C coupling	UGC	85000	Minor	2013	2015	Ongoing
62	Dr. Madhukar Zambare (ID)	Studying the impact of tree Canopy on Air pollution using Wireless Sensor Network	UGC	83000	Minor	2013	2015	Ongoing
63	Dr. Madhuri Mandlik	Scheduled Tribes of Khandesh & adjacent Gujarat border, with special Reference to Bhils and Kolis.	UGC	80000	Minor	Mar. 2013	Mar. 2015	Ongoing
64	Dr. Raka Dabhade	Virtual observatory for variable star observations	UGC	150000	Minor	2013	2015	Ongoing
65	Dr. Kishor Pendharkar	Study of Co-Administration of Pentoxifylline with the Plant Extract Tridax Procumbens on the early development	UGC	375000	Minor	2014	2016	Ongoing
66	Dr. Vishakha Korad	Study on diversity and distribution of Beetles (Insecta: Coleoptera) in Western Ghats of Pune district.	UGC	75000	Minor	2013	2015	Ongoing
67	Dr. Pramod Phirke	Impact of chelating agents on certain metabolic activities of an experimental model, <i>Parreysia corrugata</i>	UGC	150000	Minor	2012	2014	Ongoing

68	Swarupa Chowdhury	Nanoprimer for increasing seed germination efficiency in soybean	UGC	340000	Minor	2013	2015	Ongoing
69	Dr. Ravindrasinh Parsdeshi	Petrography and phytolith studies of the Tertiary Formation of Bikaner Nagaur basin, Western Rajasthan, India	UGC	270000	Minor	2014	2016	Ongoing
70	Dr. Seema Sambrani (Mentor - Dr. B. P. Shinde)	Isolation and characterization of organic solvent tolerant lipolytic Enzymes.	DST (Women Scientist)	2380000	Major	2011	2014	Completed
71	Dr. Sangeeta Kale and Dr. Nitin Kulkarni	Metal- Oxide-polymer nanocomposites for detection of gas pollutants in sugar industry	DST	1920000	Major	2009	2011	Completed
72	Dr. Raka Dabhade	Visual and photographic observations of meteors	ISRO	500000	Major	2009	2012	Completed
73	Dr. Parbati Bandyopadhyay (PI) Dr. Rajendra Konde Deshmukh (Co. PI)	Synthesis, characterization, spectral and catalytic studies of Completed transition metal Completed complexes of some biologically important aroylhydrazone ligands	UGC	779000	Major	2012	2015	Ongoing
74	Dr. Raka Dabhade	Development of FC Observatory - An autonomous Robotic telescope	ISRO	1100000	Major	2013	2015	Ongoing
75	Dr. Kishor Sonawane	“Study of Metal Oxide Semiconductor thin films for Gas Sensing Applications”.	DAE - BRNS	2375250	Major	2014	2017	Ongoing

Annexure-X: Peer Team Report - NAAC 1st Cycle

Original Copy
Prin. V. K. Wagh

**THE INSTITUTIONAL ASSESSMENT
AND
ACCREDITATION**

OF

THE FERGUSSON COLLEGE

PUNE- 411004

September 24-26, 2003

**PEER TEAM REPORT ON THE INSTITUTIONAL
ASSESSMENT & ACCREDITATION OF THE FERGUSSON
COLLEGE, PUNE- 411004**

SECTION 1: INTRODUCTION

Deccan Education Society (DES) established the Fergusson College, one of the oldest colleges in the country, in January 1885. The College was affiliated to Bombay University and following the establishment of Pune University in 1948; its affiliation was transferred to the Pune University. The main building of The College was completed in 1895. The founders of the DES included luminous like Vishnu Shastri, Chiplunkar, Lokmanya Bal Gangadhar Tilak, Gopal Agakar, Mahadev Namjoshi and Vaman Apte. The Fergusson College has received the UGC recognition under 2f 12B of the UGC Act and receiving development assistance.

The College is located in the heart of Pune city on an area of 60 acres that is scenic and serene. It offers undergraduate 13 in Arts and 9 in Science faculty and Post Graduate degree courses. In all, the College offers 30 undergraduate, 8 postgraduate, 2 postgraduate diploma programmes in Arts and Science, besides certificate and diploma courses, research facilities for M.Phil. and Ph.D programmes. The College also offers vocational courses at degree level in (i) Electronic equipment maintenance, (ii) Biotechnology, and (iii) Still photography and audio-visual products

At present, there are more than 3400 students, 132 permanent teachers and 41 temporary teachers, supported by a team of 133 members of the non-teaching staff.

The DES also runs many other institutes such as Institute Of Management And Development Research. The Technical Institute, Pune, The Jagannath Rathi Vocational Guidance and Training Institute etc. which are all located in the Fergusson College Campus. The College has 100-year-old Botanical garden extending over 2.0 acres.

The Fergusson College volunteered to be assessed by the National Assessment and Accreditation Council (NAAC) and submitted a self-study report in May 2003. NAAC has constituted a Peer Team, consisting of Prof. K.C. Upadhyaya, Vice-Chancellor, The M.S. University of Baroda as Chairman and Dr. M.D. Muthamma, Director of Collegiate Education, Govt. of Karnataka, Bangalore and Dr. N. Sukumaran, Dean, Faculty of Science, Sri Paramkalyani Centre of Environmental Sciences, Manonmaniam Sundaranara University, Alwakurichi, Tamil Nadu as members to visit the College. Dr. G. Srinivas, Deputy Adviser, NAAC has coordinated the visit.

The Peer Team analyzed the Self-Study Report and visited the College between September 24th to 26th, 2003 for on-site validation. It held separate meetings and discussions with the Principal, executive committee members of the Deccan Education Society, Heads of the Departments, faculty members, non-teaching staff, students, alumni and parents. The team perused the documents and records made available to it. The team also visited all the departments, library and other support services. This report is prepared on the basis of Peer Team's overall empirical view of the College, its infrastructure and the opinion gathered from its interaction with the Principal, members of the College management, teaching and non-teaching staff, students, alumni and parents. The criteria wise report is as follows:

Section II: CRITERION WISE ANALYSIS

Criterion 1: CURRICULAR ASPECTS

The quality of the College is assessed not only by its imposing physical structure nor by hoary past and lofty ideals but by the nature, quality of the content and relevance

of the curriculum imparted to the students. Judged from this angle the programs of teaching and learning of this College are largely consistent with its goals and objectives. The College aims to focus on the all round development of the personality of the students. For this purpose the College has provided a wide range of subject combinations, which would also help students to pursue interdisciplinary, vocational and professional courses.

The College offers 16 programmes in Arts such as English, French, German, Hindi, Marathi, Sanskrit, Economic, History, Philosophy, Politics, Psychology, Sociology, Mathematics and Statistics and 3 P.G. programmes in English, Marathi and Economics. Perhaps this is the only college that offers under graduate degree programme in German and French in the University of Pune. The undergraduate students in French and German are benefited by the Student Exchange Programme between Germany and Fergusson College and France and Fergusson College. In the science faculty, the College offers 9 different specializations for under-graduate degree i.e. Physics, Mathematics, Chemistry, Botany, Zoology, Geology, Statistics, Electronic Science and Computer Science and 4 P.G. programmes namely Physics, Chemistry, Electronic Science and Computer Science. Recently the College has initiated 3 year M.Sc Tech programme in Industrial Mathematics with Computer Applications. The Department of Chemistry has developed techniques for chemical experiments at micro scale level that helps in saving of chemicals at a large scale. The P.G. education in the Science stream also provides an opportunity for students to interact with the experts in the industry. Under special cases the Computer Science facilities are also accessible to the students beyond teaching hours.

In the Mathematics faculty, special guidance is provided to bright students to participate in the State National and International Mathematic Olympiad. Guidance is also given in Physics Department for participation of students in Astronomy Olympia's and National Graduate Physics examinations conducted every year.

The Physics Department has good facilities for the B.Sc. practicals and the practical protocols for first and second year B.Sc. students in the printed form and are provided in the beginning of the academic year.

As the College is an affiliated one, it follows the syllabi framed by the University of Pune. Some of the teachers as members of the Board of Studies and various academic committees of the university have contributed in the formulation of the syllabi in various subjects. Majority of the courses are conventional but Computer Science and Electronic Science courses are job-oriented courses. Besides the College offers vocational courses like Still Photography and Audio-visual production, Biotechnology, Electronic Equipment maintenance and some autonomous diploma and certificate courses, which are also job oriented. Most of the departments have subject associations/study circles, which carry out various activities and innovative programmes to enable the students to identify and promote their skills.

Criterion 2: Teaching, Learning and Evaluation

Investment on highly sophisticated infrastructure, the creative vocational curriculum, intellectual input and an efficient management practices will go waste if the quality of the teachers is poor and the teaching and the valuation methods followed them are obsolete. It is revealed from the self-study report as well as the interaction with the teachers and the students; this College adopts a transparent admission process. Students are selected for admission on the basis of their academic record, performance in interview and entrance test. The College works for 324 days of which 202 are sophomore days in a year.

Majority of the teachers of this College are well qualified and experienced. There are 132 permanent, 41 temporary and 3 part time teachers. As many as 57 (35%) and 14 (10%) teachers hold Ph.D. and M.Phil. degree respectively and remaining teachers possess postgraduate degrees. Besides some of the teachers have also pursued Post-doctoral research at foreign universities and a few of the teachers are also as recognized

guides for Ph.D. research. Some of the teachers have received the best teacher awards and some of them are functioning on the various academic bodies of the University besides many of them are resource persons for various courses.

The admissions to the B.Sc. and B.A. courses are based on the marks obtained in the 12th standard. However the students from the Fergusson junior college are admitted on preferential basis as per the norms of the Education Department, Govt. of Maharashtra. Admissions to the P.G. courses in Chemistry, Computer Science, Electronic Science and Physics are made on the basis of academic records, and the interview. Admission to the B.Sc. vocational course in Biotechnology and M.A. (English) is made through entrance test. Admission to other courses is based on the academic merits.

The Departments of Sanskrit, French and German conduct special lectures for F.Y.B.A. students of 'Beginners' Batch'. Advanced learners in B.Sc. and M.Sc. Electronic Science, Computer Science, Physics and Biotechnology are motivated to undertake the research oriented projects in R&D laboratories/Institutes/ Industries, in and around Pune, where they get opportunities to work with the top-level scientists and be acquainted with the latest developments in the respective fields. The students of B.A. in Psychology are encouraged to take up research-oriented projects.

Various departments encourage the advanced learners to participate in the subject Olympiads, projects, poster competition, seminars, lectures and quiz competitions organized by the University and the other Institutions.

Academically disadvantaged students are helped through revision / back-up lectures and 'Come & Do' experiments while the advanced learners are involved in research oriented activities. The College has various subject associations and under their auspices arranges various co-curricular activities such as guest lectures, study tours, lecture / essay / posters competitions, seminars to enrich learning experience of the students. Tests are being conducted periodically and the students are informed about their performance. Some Science departments and Psychology Department conduct mock

Practical Examination and viva-voce. During the last five years teachers of the College have published many text books that are useful as course material to the students of Fergusson and other colleges.

Further the collaboration of this College with various research institutions and some of the creative programmes designed are indeed unique and has definitely contributed for the good academic ambience in the College.

The College follows the university examination system in evaluating students' performance. The College conducts viva-voce, seminars and group discussions to evaluate students' knowledge. However, the low percentage of success rate in science subjects may reflect on the poor quality of the students opting for science subjects. The teachers are recruited through the rules stipulated by University of Pune and Government of Maharashtra, U.G. and DES. The College has the freedom to appoint teachers on temporary and ad hoc basis. For the non-grant courses the College appoints the temporary teachers and their salaries are paid from the resources generated through non-grant courses. Student's evaluation of the teachers is practiced in the Computer Science Department. This practice is now being implemented by other departments too. The college has also started the practice of taking student feedback on various aspects of college activities.

Audio-visual aids, multimedia kits and education charts are used by some of the teachers while teaching/ demonstrating various concepts.

Criterion 3: RESEARCH, CONSULTANCY AND EXTENSION

The teachers of this College have a positive disposition towards research as a good means for the improvement of their own capacity as well as creation of knowledge. Approximately 50% of the teachers have PhD and several teachers have registered for their Ph.D. A few teachers have also undertaken Post-doctoral programmes in foreign Universities. Besides, nine teachers are recognized as research guides and some of them

have successfully completed major and minor research projects. In addition to this, three teachers are currently engaged in minor and a few teachers in major research projects with the total outlay of over 16 lakhs. A teacher from the Department of Zoology has obtained a UGC major research project with an outlay of over 13 lakhs. The Department of Electronic Science has developed an instrument viz. Ellipsometer under the DAE Project as import substitute. Efforts are being made to develop this system as a compact portable one.

Some of the Departments (Chemistry, Botany, Zoology, Computer Science) have linkages with industries, which may be consolidated as consultancy service. A teacher in Department of Economics has been involved in the network project with Maharashtra Development Board. The Department of Psychology through its activity 'Futurama: Vision of The Future' and the department of Physics through Astroclub publicizes its expertise for career and personal guidance and counseling, by means of notices and charts, exhibitions, night sky observations for the College students. The College conducts health and hygiene awareness, adult education and literacy, blood donation camp, AIDS awareness and environment awareness programmes. The College has a strong NCC Unit in the form of army and naval wings which has motivated cadets to join NDA and IMA. Every year, one cadet from NCC participates in Republic Day parade. The NCC and NSS students have planted hundreds of trees on Hanuman Hill, which has transformed it into a green hillock adjoining the College campus.

Criterion 4: INFRASTRUCTURE AND LEARNING RESOURCES:

The popular adage that a sound mind in a sound body is not a cliché. The physical aspects of a college are equally important to generate quality in education. Indeed, the physical aspects of the College consisting of its campus, layout, buildings, library and the laboratories will have a salient impact on the students. The Fergusson College has a distinction of being one of the pioneers in the history of higher education system of the country. The College has very good physical facilities to run the educational programmes along with administrative support efficiently. Some are listed as follows:

- An old and a beautiful building constructed in the Gothic style.
- The N.M. Wadia Amphitheatre
- The B.J. Wadia Library
- The Wrangleer R.P. Paranjpye Memorial Block
- The Centenary Complex. (New Electronic Science Building)
- Four Hostels for boys and two for girls
- Generators to backup electricity supply for Computer and Electronics lab and Main building.
- Satisfactory water supply
- Well equipped laboratories
- The library has a collection of over 2 lakhs books.
- Good computer laboratories in the Dept. of Electronic Science and Computer science. The Dept. of Physics, Mathematics and Statistics also have several computers. Some of them also have a dial-up internet connections.
- A Botanical Garden with a couple of Net Houses
- Canteen
- Staff Quarters
- Guest House
- Ladies Common Room
- Ex-Fergussonians' House
- Good Museums in the Departments of Geology and Physics.

Apart from the academic facilities the College also has good facilities for sports and games. The College has its own gymkhana, 2 play grounds, 7 Tennis Courts, 2 Basket Ball Courts, 2 Badminton courts and gymnasium with necessary equipment. Many students of the College participate actively in regional, state and national level sports events. One of the students has also participated in an International sport event held in Kuala Lumpur. The College has been consciously promoting its sports culture among its students. This has resulted in moulding several outstanding sports persons including one Olympian. Several College students have received a number of medals,

trophies and recognitions. The College is striving to provide adequate learning facilities for the students. The College has an extension counter of Central Bank of India.

Criterion 5: STUDENT SUPPORT AND PROGRESSION

Education is a comprehensive process. Therefore it should not be restricted to imparting information alone. Adequate support services are very essential for the students to have a rewarding experience. It is hearting to note that the College authorities are making all efforts to provide necessary support services to the students. The salient features of the support services are as follows:

- Adequate Hostel Facilities
- Adequate facilities for both indoor and outdoor games
- Library, Botanical garden, Museums etc
- Placement Cell in Computer Science Department
- NSS
- NCC (Army and Navy)
- Student Exchange Programmes: with Germany and France
- Cultural Activities
- Personality Development
- 'Kimaya' which is a special and a rare support service for cultural and recreation activities.
- MEETRA
- Students Safety Insurance Scheme
- Alumni Association along with their own building
- Residential Facilities for both teaching and non-teaching staff.
- Girls Common room

The achievement of the students of this College in NCC is outstanding. Several students have attended Republic Day Parade, Youth Exchange, NIC, and Army attachment, Ship attachment camps. As many as 16 students have been commissioned as officers in Indian Army and Navy through NCC and Naval wing during the last 5 years

which indeed is a significant achievement. Many students from departments of German and French have availed exchange facilities. The cultural activities conducted by this College are many and highly creative and re-creative. Several students have won prizes at inter-collegiate and inter-university competitions. The College has also conducted various personality development programmes.

The College renders very useful support services to the students. The Alumni Association of this institute, which was started during the year 1945, has now built a house for them in the campus. The alumni comprise a list of distinguished personalities including two Former Prime Ministers viz. Shri. V.P. Singh and Shri. P.V. Narasimharao, Maharishi Keshav Karve a Bharat Ratna awardee, many Vice-Chancellors, politicians, social workers, scientists, administrators, entrepreneurs, sportsmen and artists.

Criterion 6: ORGANIZATION AND MANAGEMENT

The College is owned and managed by the Deccan Education Society. The matter of finance, academics and discipline of the College are monitored by the Local Management Committee. Principal is assisted in the regular work by a team of Vice-Principals, Registrar and various committees, each headed by a senior faculty member. There are nearly 18 such committees to look after admission, discipline, time-table, examination, library, cultural, hostel, purchase, repairs etc. Large number of teachers are involved in the co curricular activities. Capacity building programmes such as seminars, workshops and refresher courses are organized and teachers are encouraged to participate in these programmes. Transparency and accountability is maintained in administration. Financial position of the College is sound and the funds are judiciously spent on the development activities.

Criterion 7: HEALTHY PRACTICES

The Institution displays sensitivity to changing educational, social and market demands. It is geared to promote ambience for creativity and innovations. Following are

some of the healthy practices adopted by the College to impart secular, humanitarian, Progressive and democratic values among students.

- Arranging lectures, seminars, cultural events and national festivals.
- Inculcating civic responsibilities through tree plantation, blood donation camps, road safety programmes, calamity relief fund etc.
- Striving to bring community orientation through Adult Education Programmes, Health Awareness, and Visits to Orphanages and de-addiction Centers.
- Organizing Street plays
- A festival OORJA that creates platform for diverse student population to expose their talents.
- The student exchange programme and cultural exchange linkages with national and international organizations
- Various forums in the College to promote love for music and literature among the students.
- Well-organized Alumni Association.
- Many complimentary need based non-grant courses, along with the regular curriculum.

SECTION III: OVERALL ANALYSIS

- The academic atmosphere prevailing on the campus, discipline existing among students the commitment and dedication of the staff and the positive approach of the Management has earned the College a good name and fame in the country.
- The College can boast of a large array of eminent personalities and alumni in various fields like industry, business, education, performing arts, sports etc. This includes two Former Prime Ministers, Padmashree, Padmabhushan and a Bharat Ratna Awardee.
- The College has excellent infrastructure facilities and some of its building are heritage structures.

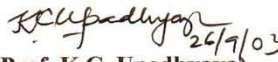
- The College provides a very good platform for the overall personality development of the students ranging from academics to cultural activities, sports, NSS and NCC.
- The campus and the hostel are absolutely free from ragging and thus provide a calm and healthy academic atmosphere.
- The interaction of the Management with the Staff and Students of the College is good, which helps in the progress of the College.
- The participation of the staff and students in the national/international seminars, workshops and the research activities in the few departments gives an academic outlook to the institution.
- The College fosters and nurtures traditional values and inculcates moral and ethical principles in the student community.
- The College has geared up for the autonomy, if sanctioned, so that inter-disciplinary and multi-disciplinary courses can be introduced.
- The College campus is green and environment friendly.

RECOMMENDATIONS

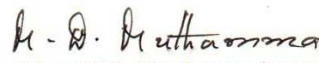
- The College can think of introducing more job-oriented vocational courses in the front line areas of Biotechnology, Microbiology, Biochemistry, Environmental science, Mass Media communication after collecting feedback from academic peers and potential employers.
- The facilities in laboratories and library need modernization in some of the science departments.
- Library needs computerization. Recent editions of books in the various disciplines should be acquired.
- The classroom teaching may be made more innovative and efficient by using more modern teaching and learning aids.
- The College should procure more computers with Internet connectivity. The Internet facility in the library may be made available round-the-clock.

- The College, which has celebrated the Centenary Jubilee recently has heritage buildings that require regular maintenance and repairs. The infrastructure needs upgradation.
- The staff members may be encouraged and motivated to take up more number of major and minor research projects, availing financial assistance from various funding agencies.
- Research Committees may be constituted to boost up the research activities and to increase the research potentials.
- Teachers of all departments should organize seminars, workshops periodically to get the necessary exposure.
- The faculty should visit the University Departments and other Advanced Centers of Learning frequently to update their knowledge.
- The Research Departments may think of extending their expertise in the form of consultancy services.
- The College can make efforts to expand academic activities so that it can meet the growing demands of the students seeking admission to the College.
- The College can arrange to conduct coaching classes for competitive examinations as suggested by the alumni.
- Better networking of the alumni to tap the resources will further strengthen the progress and development of the College and will provide more job opportunities for the students.
- It is desirable recruitment process so that the majority of the faculty members do not constitute alumni of the College
- The informal counseling given by the Psychology Department can be formalized into a regular counseling/placement cell with a designated person to establish linkage with the potential employers.
- The College should strengthen further the institution-industry linkage.
- The College can set up an internal quality assurance cell for the improvement and sustenance of quality in the College.

The Peer Team appreciates all the support and facilities extended to it during the visit and wishes the College success in all its future endeavors in becoming an autonomous center of Excellence.


(Prof. K.C. Upadhyaya) 26/9/03

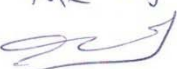
Chairman


(Dr. Mrs. M.D. Muthamma) 26/9/03

Member


(Dr. N. Sukumaran) 26/9/03

Member

The Report is accepted

(V. K. Wagh)

Principal
Principal,
Fergusson College, Pune
Date: 26th September 2003
Pune- 411005

Annexure-X: PTR Report- NAAC - 2nd Cycle

NAAC for quality Excellence in Higher Education.
PEER TEAM REPORT
 Of
Fergusson College, Pune. Maharashtra
 (PTV Date:15th to 17th, February 2010)

Section I: GENERAL	Information
1.1 Name & Address of the Institution:	D.E.S. Fergusson College Pune-411004
1.2 Year of Establishment:	1885
1.3 Current Academic Activities at the Institution (Numbers):	
• Faculties/ Schools:	02
• Departments / Centers:	16 (UG) + 12 (PG) = 28
• Programmes / Courses offered:	15+12=27(UG) 04+10=14(PG) = Total 41.
• Permanent Faculty Members:	123 (Grant-in-aid)+96 (Self Finance) = 219.
• Permanent Support Staff:	121 (Grant-in-aid)+51(Self Finance) = 172.
• Students:	5023 (3528 UG + 1495 PG)
1.4 Three major features in the institutional Context (As perceived by the Peer Team):	<ul style="list-style-type: none"> • 125 years old college affiliated to University of Pune. • College has good reputation and attracts international students • Extra Co-Curricular activities leading to overall development of students
1.5 Dates of visit of the Peer Team (A detailed visit schedule may be included as Annexure):	15 th 16 th & 17 th February 2010
1.6 Composition of the Peer Team which undertook the on- site visit:	
Chairman	Prof. A. K. Singh (Former Vice Chancellor) Dr. Babasaheb Ambedkar Open University P-2, Professor's Quarters Saurashtra university Campus Rajkot - 360005, Gujrat.
Member	Dr. K. A. Raveesha Professor, Dept. of Studies in Botany. (Microbiology Lab) University of Mysore Manasagangotri Mysor-570006, Karnataka.
Member	Dr. Prabir Kumar Chakraborty Principal Mindapore College, Dist. Paschim, Mindapore-721101 West Bengal
NAAC Officer	Dr. Sujata Shanbag Assistant Advisor, NAAC.

(Signature)

NAAC for quality Excellence in Higher Education.

Section II: CRITERION WISE ANALYSIS	Observations (Strengths and/or Weaknesses) on Key-Aspects (Please limit to three major ones for each and use telegraphic language (It is not necessary to indicate all the three bullets each time; write only the relevant ones)
2.1 Curricular Aspects:	
2.1.1 Curricular Design & Development:	<ul style="list-style-type: none"> • College, affiliated to University of Pune, follows syllabi framed by the University • College provides value based education
2.1.2 Academic Flexibility:	<ul style="list-style-type: none"> • At UG level college offers Programmes in 14 subjects in Arts and 12 in Science, and at PG level offers M.Sc. in 8 subjects besides M.C.A. and M.Tech • College offers 3 Vocational course & 6 certificate courses as add on programmes • 22 programs are self financed • College has introduced 4 new programmes in PG and 10 in UG during last 5 years
2.1.3 Feedback on Curriculum	<ul style="list-style-type: none"> • College takes feedback informally from its students • The feedback from alumni is yet to be taken • Feedback mechanism be formalized and strengthened
2.1.4. Curriculum Update	<ul style="list-style-type: none"> • Curricula are updated regularly • Curriculum revision was made at B.Sc. B.A. and M.Sc. (Organic Chemistry) in the year 2008.
2.1.5 Best Practices in Curricular Aspects (If any):	<ul style="list-style-type: none"> • Participation of faculty in workshops for curricular framing
2.2 Teaching-Learning & Evaluation:	
2.2.1 Admission Process and Student Profile	<ul style="list-style-type: none"> • Transparent admission process based on merit • Government reservation rules are followed and candidates from different strata, gender and locale admitted without discrimination.
2.2.2 Catering to the Diverse Needs:	<ul style="list-style-type: none"> • Provides wide range of subject combinations and counseling for students • For academically weak students, extra classes and remedial courses are organized in three subjects • Differently abled students' needs to be catered

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2.2.3 Teaching-Learning Process:	<ul style="list-style-type: none"> Lecture method is supplemented with teaching aids, group discussions and seminars Adoption of ICT enabled teaching learning process initiated in three departments Activity based interactive teaching in some departments.
2.2.4 Teacher Quality:	<ul style="list-style-type: none"> 45% teachers have Ph.D. and 20% M.Phil degrees 32 teachers are NET/SET qualified Appointment of teachers as per norms of University, UGC and State Government. 19 teachers won best teachers awards during last 5 years
2.2.5 Evaluation Process and Reforms:	<ul style="list-style-type: none"> Examination conducted as per the affiliating University norms For monitoring students progress, internal assessment test / examination are conducted Communication of student's academic progress to parents has been initiated.
2.2.6 Best Practices in Teaching-Learning and Evaluation (If any):	<ul style="list-style-type: none"> Seminars and field / Industry visits are arranged. Teachers participate in seminars, refresher courses and discussions / workshops for honing their teaching skills.
2.3 Research, Consultancy & Extension:	
2.3.1 Promotion of Research:	<ul style="list-style-type: none"> Research committee facilitates research activity Providing seed money to support research project. Four departments recognized as Research Centers and 11 faculties are research guides.
2.3.2 Research and Publications Output:	<ul style="list-style-type: none"> UGC, University of Pune, DST, Funded Minor (22) and Major (06) research projects in progress. Teachers have published National (94) and International (92) research papers 44 Faculty members attended 169 national seminars / Conferences. Five patents filed.
2.3.3 Consultancy:	<ul style="list-style-type: none"> Some faculty members offer academic consultancy. Consultancy services needs to be strengthened
2.3.4 Extension Activities:	<ul style="list-style-type: none"> Blood donation, Shramadan, Traffic Control programme etc. have been organized.

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2.3.5 Collaborations:	<ul style="list-style-type: none"> • One NSS Unit and two units of NCC separately for boys and girls are active. • Linkages with state, national and International bodies established • College has students exchange programme in two departments. • Research collaboration and academic tie up with other institutes initiated.
2.3.6 Best Practices in Research, Consultancy & Extension (If any):	<ul style="list-style-type: none"> • Social awareness programmes • Active Inter Collegiate Consortium (PICC) • Central Instrumentation facility funded by DST/ FIST established.
2.4 Infrastructure and Learning Resources:	
2.4.1 Physical Facilities for Learning:	<ul style="list-style-type: none"> • The college has adequate infrastructure with built up area of 31000 sq. mt. to carry out academic activities, with 60 Classrooms, 65 laboratories and one small Central Computer Center • To keep pace with academic growth 2200 sq.mt. floor area added • The college has adequate indoor and outdoor sports facilities.
2.4.2 Maintenance of Infrastructure:	<ul style="list-style-type: none"> • The college has spent 3, 15,000/- for computers maintenance, Rs. 7, 25,000/- for building and 3, 50,000/- for furniture and 5, 00, 000 for equipments 2008. • Satisfactory maintenance of the infrastructure.
2.4.3 Library as a Learning Resources	<ul style="list-style-type: none"> • The college library has a good collection of books, magazines, journals and rare books. The Central library has 180000 books including reference books with total carpet area 11,716 sq. ft. The departments have their own libraries • Limited reprographic facilities • Computerization of library resources and digitization of rare books / manuscripts needed
2.4.4 ICT as Learning Resources:	<ul style="list-style-type: none"> • 464 computers in the college • Broadband internet facility available in departments with optical fiber networking. • ICT enabled teaching-learning needs to be strengthened.
2.4.5 Other Facilities:	<ul style="list-style-type: none"> • The college has separate hostels for boys and girls with capacity of 400 (boys) and 200 (girls) respectively. • Common vehicle parking, playground facilities and canteen to be upgraded.

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	<ul style="list-style-type: none"> Health center, Central internet facilities for students need to be added on the campus. College has residential quarters for faculty (26), and non teaching staff (40) and a guest house.
2.4.6 Best Practices in the development of Infrastructure and Learning Resources (If any):	<ul style="list-style-type: none"> Science exploratory laboratory and Botanical Garden. Optimal Utilization of infrastructure.
2.5 Student Support and Progression:	
2.5.1 Student Progression:	<ul style="list-style-type: none"> Good pass percentage with number of first classes in UG and PG courses. About 45% UG students go for higher education while about 34% go for employment through Placement cell. Negligible dropout rate.
2.5.2 Student Support:	<ul style="list-style-type: none"> College gave 152 awards, prizes and medal in the year 2008-09 to its students amounting to Rs. 1,34, 982/- from its endowment funds. Student counseling facility provided. There is a grievance redressal cell for students. Good health care facilities for students on the campus needed.
2.5.3 Student Activities:	<ul style="list-style-type: none"> Student's commendable participation and performance in cultural activities and programmes Good performance of students in sports and NCC
2.5.4 Best Practices in Student Support and Progression (If any):	<ul style="list-style-type: none"> Good performance of students in the University examinations
2.6 Governance and Leadership:	
2.6.1 Institutional Vision and Leadership:	<ul style="list-style-type: none"> Vision and goals of College managed by D.E.S, in consonance with the objectives of higher education. Local Management Council with representatives from teaching and nonteaching staff and principal is committed to effective governance. Cordial relationship among various sections of employees.
2.6.2 Organizational Arrangements:	<ul style="list-style-type: none"> Participative and decentralized management Grievance Redressed Cell and various cells like Anti-Sexual Harassment are in place. Informal arrangements and Sub Committees in place for internal

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	coordination.
2.6.3 Strategy Development and Deployment:	<ul style="list-style-type: none"> • College governing body takes initiative for promotion of education and welfare of students and employees. • Management Information systems (MIS) to be deployed • Strategic action plan for preservation of good practices, development and for introducing innovative management to be deployed.
2.6.4 Human Resource Management:	<ul style="list-style-type: none"> • About of sanctioned teaching and non teaching posts are filled. • Recruitment in compliance with the UGC, University and State the Government rules. • Regular performance appraisal of non teaching staff. • Regular appraisal of teacher's performance. • Regular Training of non-teaching staff to be arranged.
2.6.5 Financial Management and Resource Mobilization:	<ul style="list-style-type: none"> • Adequate funds available for maintenance of infrastructure. • College receives grants from the state government and UGC. Financial recourses mobilized through donations and self finance course. • Optimal utilization of budgetary of provisions.
2.6.6 Best Practices in Governance and Leadership (If any):	<ul style="list-style-type: none"> • College management subscribes to educational values. • Good financial management.
2.7 Innovative Practices:	
2.7.1 Internal Quality Assurance System:	<ul style="list-style-type: none"> • IQAC in place and functional • Active participations of teachers and students in Quality assurance initiatives • Value addition to learner's development through quality education.
2.7.2 Inclusive Practices:	<ul style="list-style-type: none"> • Inclusive practices for disadvantaged challenged wards without any discrimination. • Special courses for weak students from rural areas.
2.7.3 Stakeholder Relationships:	<ul style="list-style-type: none"> • Healthy relationship with alumni in the form of Ex-Fergussonian Association • The parent's teachers association to be strengthened.

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Section III: OVERALL ANALYSIS	Observations (Please limit to five major ones for each and use telegraphic language) (It is not necessary to denote all the five bullets for each)
3.1 Institutional Strengths:	<ul style="list-style-type: none"> • Good institutional reputation • Adequate facilities for existing programmes and space for future growth and expansion • Consistently good performance of the students in University examinations and cultural activities. • Conducive learning environment for students and good ambiance on the campus.
3.2 Institutional Weaknesses:	<ul style="list-style-type: none"> • Research activities need to be strengthened. • Lack of professional consultancy.
3.3 Institutional Challenges:	<ul style="list-style-type: none"> • Starting innovative courses, training students for competing at global level. • Generating more funds for modernization, maintenance and addition of infrastructure. • Better Maintenance of heritage building and rare manuscripts and books. • Collaboration with research institutes at national and international levels
3.4 Institutional Opportunities:	<ul style="list-style-type: none"> • Ample scope for developing into a center of excellence in higher education. • Good Scope for developing industry institution networking. • Good scope for offering new PG courses in Arts and Science faculties, vocational and interdisciplinary courses.

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17/12/10

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Section IV: Recommendations for Quality Enhancement of the Institution

(Please limit to *ten major ones* and use telegraphic language)

(It is not necessary to indicate all the ten bullets)

- The college should make concerted efforts for obtaining autonomy.
- Teachers should be encouraged to obtain more grants for research projects and for organizing seminars / conferences from different funding agencies.
- Library facilities need to be upgraded and automated on priority basis with focus on preservation of manuscripts and rare books.
- Industry - Institute-Interaction cell needs to be established along with the strengthening of placement cell.
- College needs to start new innovative courses, vocational programmes and interdisciplinary courses in emerging areas.
- Central computer facility with internet connectivity to be established particularly for students.
- Faculty from every department should be sent to various centers of excellence to learn about new teaching, learning and best practices in their subjects
- The departments need to undertake collaborative activities in teaching and research with national and international institutes.
- Definite mechanism and policy needs to be evolved for academic and administrative auditing of various courses and projects, and should upgrade its existing sports facilities and add new facilities particularly for athletics.
- College should encourage greater use of ICT for teaching and learning along with establishment of center for career counseling and development.

I agree with the Observations of the Peer Team as mentioned in this report.



Signature of the Head of the Institution

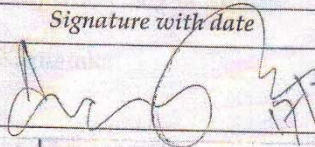
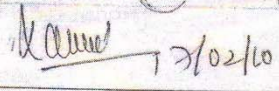
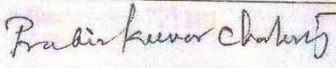
17th February 2010.

PRINCIPAL

FERGUSSON COLLEGE, PUNE - 4

Seal of the Institution

Signatures of the Peer Team Members:

Name and Designation		Signature with date
Prof. A. K. Singh	Chairman	 17/2/10
Dr. K. A. Raveesha	Member	 17/02/10
Dr. Prabir Kumar Chakraborty	Member, Co-ordinator	

Place: Pune.

Date: 17.02.2010