



Sr. No.	1. Personal Information					
A1	Full Name :		Sapnar Kailash Baliram		Gender :	Male
				Designation :	Associate Professor	
A4	College :		Deccan Education Society Fergusson College Addr: FC Road Ta: Pune (corporation Area) Dist: Pune		PunCode :	CAAP010010
A5	Personal Email :		kailashsapnar27@gmail.com kailas.sapnar@fergusson.edu		Personal Mob No. :	9850394007
2. Academic Qualification						
Sr.No.	Type	Faculty	Degree	Subject Name	University Name	Month & Year of Passing
1	Graduate	Science	B.Sc.	Physics	University of Pune	June-1992
2	Ph.D.	Science	Ph.D.	Physics	University of Pune	March-2012
3	PostGraduate	Science	M.Sc.	Physics	University of Pune	July-1994



3. Teaching Experience (Only having University Approval)

Sr No.	Designation	University	Subjects	Approval	Nature of Appointment	Total Experience(in Months)
1	Designation : Associate Professor , PayScale : PayScale Start Date : , PayScale Letter Date :	University Name : Savitribai Phule Pune University, Pune College Name : fergusson college pune	Type Of Approval (UG/PG) : UG , Faculty : Science , Board Of Studies : Physics , Subject/Department : , Course Name :	Approval Type : Permanent Approval Ltr Date : 10/08/2024 Approval Ref No : CCO/3068	Nature : Full Time From Date : 7/29/2024	8
2	Designation : Assistant Professor , PayScale : PayScale Start Date : , PayScale Letter Date :	University Name : Savitribai Phule Pune University, Pune College Name : Fergusson College, Pune	Type Of Approval (UG/PG) : PG , Faculty : Science , Board Of Studies : Physics , Subject/Department : , Course Name :	Approval Type : Permanent Approval Ltr Date : 22/10/2013 Approval Ref No : CCO/3945 Approval Date : 16/06/2000 To 28/07/2024	Nature : Full Time From Date : 6/16/2000 To Date : 7/28/2024 Relieving Date :	289
3	Designation : Lecturer , PayScale : PayScale Start Date : , PayScale Letter Date :	University Name : Savitribai Phule Pune University, Pune College Name : Fergusson College, Pune	Type Of Approval (UG/PG) : UG/PG , Faculty : Science , Board Of Studies : , Subject/Department : , Course Name :	Approval Type : Permanent Approval Ltr Date : 22/12/1999 Approval Ref No : CCO/5935 Approval Date : 16/06/1998 To 15/06/1999	Nature : Full Time From Date : 6/16/1998 To Date : 6/15/1999 Relieving Date : 15/06/1999	12

4	Designation : Lecturer , PayScale : PayScale Start Date : , PayScale Letter Date :	University Name : Savitribai Phule Pune University, Pune College Name : Fergusson College, Pune	Type Of Approval (UG/PG) : UG/PG , Faculty : Science , Board Of Studies : , Subject/Department : , Course Name :	Approval Type : Permanent Approval Ltr Date : 25/08/1998 Approval Ref No : CCO/1276 Approval Date : 01/12/1997 To 15/06/1998	Nature : Full Time From Date : 12/1/1997 To Date : 6/15/1998 Relieving Date :15/06/1998	6
5	Designation : Lecturer , PayScale : PayScale Start Date : , PayScale Letter Date :	University Name : Savitribai Phule Pune University, Pune College Name : Abeda Inamdar College, Pune	Type Of Approval (UG/PG) : UG/PG , Faculty : Science , Board Of Studies : , Subject/Department : , Course Name :	Approval Type : Permanent Approval Ltr Date : 06/01/1997 Approval Ref No : CCO/F-43/208 Approval Date : 19/06/1996 To 14/06/1997	Nature : Full Time From Date : 6/19/1996 To Date : 6/14/1997 Relieving Date :14/06/1997	12
6	Designation : Lecturer , PayScale : PayScale Start Date : , PayScale Letter Date :	University Name : Savitribai Phule Pune University, Pune College Name : Haribhai Desai College, Pune - 02	Type Of Approval (UG/PG) : UG/PG , Faculty : Science , Board Of Studies : , Subject/Department : , Course Name :	Approval Type : Permanent Approval Ltr Date : 14/06/1996 Approval Ref No : CCO/1704 Approval Date : 01/08/1995 To 14/06/1996	Nature : Full Time From Date : 8/1/1995 To Date : 6/14/1996 Relieving Date :14/06/1996	10

7	Designation : Lecturer , PayScale : PayScale Start Date : , PayScale Letter Date :	University Name : Savitribai Phule Pune University, Pune College Name : Fergusson College, Pune	Type Of Approval (UG/PG) : UG/PG , Faculty : Science , Board Of Studies : , Subject/Department : , Course Name :	Approval Type : Permanent Approval Ltr Date : 03/08/1995 Approval Ref No : CCO/2061 Approval Date : 29/11/1994 To 14/06/1995	Nature : Full Time From Date : 11/29/1994 To Date : 6/14/1995 Relieving Date :14/06/1995	7
Total Experience :						344

4. Working Experience (Only having University Approval)

Sr No.	Designation	University name	Working From	Approval	Nature of Appointment	Total Experience(in Months)
1.	Lecturer	university of Pune	29/11/1994 To 14/06/1995	Yes	Academic	7
2.	Lecturer	university of Pune	01/08/1995 To 14/06/1996	Yes	Academic	10
3.	Lecturer	university of Pune	19/06/1996 To 14/10/1997	Yes	Academic	16
4.	Lecturer	university of Pune	01/12/1997 To 14/06/1998	Yes	Academic	6
5.	Lecturer	university of Pune	15/06/1998 To 14/06/1999	Yes	Academic	12
6.	Lecturer	university of Pune	15/06/1999 Permanent	Yes	Permanent	395
Total Experience:						446

Recognition Details Not Available

6. Recognition Details

Sr.No.	Recognition Type (PG/M.Phil./Ph.D.)	By Type	Recognition Letter No. & Date	From	To	Faculty	Board of Studies	Subject
1	M.Phill	By Paper & Research	BUTR/Science/06/422 21/04/2015	20/02/2015	19/02/2023	Science	Physics	Physics
2	Ph.D	By Research	BOD/Sci & Tech/34/282 22/03/2018	30/01/2018	29/01/2026	Science	Physics	Physics

7. Teaching Papers In Last 5 Years

Sr.No.	Paper Name	Faculty	Course Name	Pattern Name	Academic Year
1	PHYUT504 ATOMS,MOLECULES & LASERS	Science	M.Sc. PHYSICS (REV.2013)	M.Sc. PHYSICS (REV.2013)	2013-2014
2	PHYUT504 ATOMS,MOLECULES & LASERS	Science	M.Sc. PHYSICS (REV.2013)	M.Sc. PHYSICS (REV.2013)	2014-2015
3	PHY-212 : PHYSICS THEORY PAPER-II- INSTRUMENTATION	Science	B.Sc.(REGULAR)(2013)	B.Sc.(REGULAR)(2013)	2014-2015
4	PH-336 ELECTIVE I : B: ELEMENTS OF MATERIALS SCIENCE	Science	B.Sc.(REGULAR)(2013)	B.Sc.(REGULAR)(2013)	2014-2015
5	PHYUT504 ATOMS,MOLECULES & LASERS	Science	M.Sc. PHYSICS (REV.2013)	M.Sc. PHYSICS (REV.2013)	2015-2016
6	PHY-211 : PHYSICS PAPER-I- MATHEMATICAL METHODS IN PHYSICS-I	Science	B.Sc.(REGULAR)(2013)	B.Sc.(REGULAR)(2013)	2015-2016
7	PH-336 ELECTIVE I : B: ELEMENTS OF MATERIALS SCIENCE	Science	B.Sc.(REGULAR)(2013)	B.Sc.(REGULAR)(2013)	2015-2016
8	PHY-212 : PHYSICS PAPER-II- ELECTRONICS- I	Science	B.Sc.(REGULAR)(2013)	B.Sc.(REGULAR)(2013)	2016-2017

10. Other Experiences

10.1. Details of Experience related to Examination Work

Sr.No.	Designation	Chairman/Member	Exam Details	Turns	Remark
1	Examiner	Member	T.Y.BSc.2014	1	
2	Paper-Setter	Member	MSc Part II	1	
3	Sr. Supervisor	Member	2013	10	worked as senior supervisor
4	Examination Squad Committee	Chairman	2013	12	worked as Squad Committee Chairman

10.2. Details of Orientation / Refresher Courses attended

Sr. No.	Name of the Course/Summer/Winter School	Place	Duration	Sponsoring Agency
1	Attended Five Day Faculty development program on strengthening teaching-learning and evolution process in higher education,	Bhavan's Vivekanand college of science, Humanities & Commerce Sainikpuri, Secunderabad	1 st June 2023 to 6 th June 2023.	UGC (IQAC & TLC)
2	Attended National seminar on Implementation of Multi and Trans-Disciplinary Education under NEP 2020	Fergusson College Autonomous, Pune	18th – 20th January 2023	UGC-NEP
3	NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by UGC - MMTTC,	Gujarat University, Ahmedabad	01/01/2024 to 11/01/2024	UGC-MMTTC

4	Online <u>Two- week Interdisciplinary Refresher Coerce</u> in “Advanced Research Methodology” from 22 August –05 September, 2023 and obtained Grade A+	Teaching Learning Centre, Ramanujan College, University of Delhi	22 August –05 September, 2023	Ministry of Education
5	<u>One day National Level Faculty Development Program</u> Green Audit & Energy Audit in HEI’s organized on 4 th September, 2023	IOT Academy Coimbatore	4 th September, 2023	IOT Academy
6	Attended <u>one day national workshop</u> , entitled multiple input, multiple output in bracket MIMO technology and 5G wireless Communication	Department of electronic and instrumentation science Savitribai Phule Pune university Pune	13th February, 2024	SPPU
7	International seminar on energy applications	Department of physics, SPPU, Pune	24th February 2024	SPPU
8	Refresher	(Life Sciences)Physical Sciences	University Of Pune	07/09/2009
9	Refresher	physics	University Of Pune	03/03/2009
10	Refresher Course in Physics conducted at Department of Physics, University of Pune	3 rd March	2009	UGC – Academic Staff College, Scheme, University of Pune, Pune - 411007
11	Refresher Course in Life Science conducted at Department of Physics, University of Pune , Pune	7th to 27th September	2009	UGC – Academic Staff College, Scheme, University of Pune, Pune -411007

11. Visits and Participation Details

11.1. Visits

Sr.No.	Country/City	Name	Purpose
1	New Delhi	Indo-Russian International conference (IR NANO 2009)	Awarded as best paper presentation
2	Trichur	International conference 2014	2 nd prize Best paper presentation

3	Kalina Mumbai	BIONANO Frontier Journal of Science and Technology	Awarded as Senior Scientist
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12. Publication Details

Sr.No.	Authors	Title	Year	Country	Assignee	Patent No	Pages	Web Address
1	Sapnar Kailash B,MANE SURYAJI N,Kolekar Sadhu K,Dhole Sanjay D	Gamma radiation induced modification in metal–organic framework: a case study	2024				8	
2	Sapnar Kailash B,Betallu Murlidhar A,Bhalara Shaileshkumar R,Tadke Vijay B,Meena Keerti -,Srivastava Ananya -,Kundu Gopal C,Gorain Mahadeo -	hybrid inorganic coplexes as cancer therapeutic Agents: in vitro validation	2023				11	

3	Ghule Lahu A, Sapnar Kailash Baliram, Shirke B. S., Dhole S. D., Hankare P. P., Garadkar K. M.	Preparation of zinc oxide nanorods by microwave assisted technique using ethylene glycol as a stabilizing agent	2011				4	
4	Garadkar K. M., Ghule L. A., Sapnar K. B., Dhole S. D.	A facile synthesis of ZnWO ₄ nanoparticles by microwave assisted technique and its application in photocatalysis	2013				6	
5	Sapnar K. B., Ghule L. A., Bhoraskar S. V., Garadkar K. M., Dhole S. D., Bhoraskar V. N.	Photocatalytic activity of 6.5 MeV electron-irradiated ZnO nanorods	2011				10	
6	Sapnar Kailash Baliram, Dhole S. D., Bhoraskar V. N.	Electron-irradiation induced changes in the phases and photocatalytic activity of TiO ₂ nanoparticles	2012				7	
7	Hake A. J., Sapnar K. B., Umarji G. G., Gosavi S. W., Mulik U. P., Patil Anil	Synthesis and Fabrication of Effective In-Situ Zinc Oxide-Graphene Nanocomposite for Swift Response Resistive Humidity Sensor	2016				11	

8	Ghule L. A., Patil A. A., Sapnar K. B., Dhole S. D., Garadkar K. M.	Photocatalytic degradation of methyl orange using ZnO nanorods	2012				13	
9	Sapnar K. B., Bhoraskar V. N., Dhole S. D.	EFFECTS OF 6 MeV ELECTRON IRRADIATION ON ZnO NANOPARTICLES SYNTHESIZED BY MICROWAVE METHOD	2011				5	

10	Sapnar Kailash Baliram,Ghule Lahu A,Bankar Ashok ,Zinjarde Smita ,Bhoraskar Vasant Nagesh,Dhole Sanjay Daga,Garadkar K M	Antimicrobial Activity of 6.5 MeV Electron-Irradiated ZnO Nanoparticles Synthesized by Microwave- Assisted Method	2013				8	
11	Sisodia Venu R,Sapnar Kailash Baliram,Dhole Sanjay Daga	Ti silicide formation by interfacial mixing using swift heavy ion irradiation	2011				8	
12	Hake A J,Sapnar K B,Umarji G G,Gosavi S W,Mulik U P,Patil Anil	Synthesis and Fabrication of Effective In-Situ Zinc Oxide- Graphene Nanocomposite for Swift Response Resistive Humidity Sensor	2016				11	
13	Betallu Murlidhar A,Tadke Vijay B,Pathade Girish R.,Sapnar Kailash B.,Ubale Milind B.	Synthesis, Characterisation And Microbial Activity of Mixed ‘Transition Metal - Calcium Tartarate’ Complexes	2016				13	
14	Sapnar Kailash B,Betallu Murlidhar A,Tadke Vijay B,Pathade Girish R,Ubale Milind B	Synthesis, Characterization And Microbial Activity of Mixed ‘Transition Metal - Calcium Tartarate’ Complexes	2016				14	

A. Conferences

1. National Seminar on Implementation of Multi and Trans-Disciplinary Education under NEP 2020, 18th – 20th January 2023 conducted by Fergusson College (Autonomous), Pune
2. National Workshop on “MIMO Technology and 5G wireless communication” conducted by Savitribai Phule Pune University, 13th February 2024.

3. Attended One Day Workshop to Frame the Syllabus of M.Sc. Physics under University of Pune, 16th January 1999 Department of Physics, Fergusson College, Pune-411004
4. Attended University Education and Management 28th September Fergusson College, Pune
5. Attended National Level Seminar of National Children Science Congress - 2001, Department of Science and Technology , Govt. of India, Awarded to acknowledge as his contribution to NCSC as Judge 27th -31st December 2001 MIT Engineering College, Pune
6. Attended One Day Workshop on Revised Syllabus of B.Sc. Physics of University of Pune 9th March 2003 Abasaheb Garware College, Pune
7. Attended One Day State Level Seminar on “ Remembering Einstein” 10th October 2003 Department of Physics, B.J.A.C.S. College, Ale & Sponsored by University of Pune, Pune-411004
8. Attended One day workshop on T.Y.B.Sc (Physics) syllabus revision for core courses 17th January 2004 Department of Physics, Fergusson College, Pune
9. Attended On e Day State Level Seminar on “ Remembering Einstein” 17th January 2004 Department of Physics, Baburaoji Gholap College, Sangavi, Pune
10. Attended One Day State Level Seminar on “ Remembering Einstein” 21st January 2006 Department of Physics, Baburaoji Gholap College, Sangavi, Pune
11. Attended One Day National Workshop on Nanoscience of DST Unit on Nanoscience , CAS , Materials Research Society of India 4th February 2006 Department of Physics, University of Pune, Pune
12. Attended One Day National Seminar on Biophysics 31st October 2006 Department of Physics, Karmaveer Ramraoji Aher Arts, Science and Commerce Colllege, Nashik, Maharashtra, India
13. Attended One Day University Level Workshop on Syllabus Revision of B.Sc. (Physics) course of University of Pune, Pune 20th January 2007 Department of Physics, Karmaveer Ramraoji Aher Arts, Science and Commerce Colllege, Nashik, Maharashtra, India
14. Attended One Day National Seminar on Applications of Particle Accelerators 11th May 2007 Department of Physics, University of Pune, Pune
15. Attended One Day University Level Workshop on Syllabus Revision of M.Sc. (Physics) course of University of Pune, Pune 10th December 2007, Department of Physics, Fergusson college, Pune
16. Attended Two day’s State Level Seminar on “ Impact of Liberalization on Commerce Education” 15th to 16th February 2008 Shiv Chatrapati Arts & Commerce College, Pune- 411041
17. Attended One Day State Level Seminar on “ Remembering Einstein” 22nd March 2008 Rotary Club of Pune sinhgad road, Pune
18. Attended National Conference on “Renewable Energy For Youth Empowerment In Rural Area”(NCORE-2008) 23rd to 25th March 2008 Department of Physics, S.N. Arts, D.J. Malpani Commerce & B.N. Sarda Science College, Sangamner, Ahmadnager, Maharashtra
19. **Participated and awarded the B Grade** Refresher Course in Physics conducted at Department of Physics, University of Pune 3rd March 2009 UGC – Academic Staff College, Scheme, University of Pune, Pune -411007
20. **Participated and presented paper** International Workshop on Nanotechnology and Advanced Functional Materials Topic: Effects of 6 Mev electron irradiation on Titanium Oxide nanoparticles formed by Sol-gel method 9th to 11th July 2009 National Chemical Laboratory, Pune (India)

21. **Participated and awarded the B Grade** Refresher Course in Life Science conducted at Department of Physics, University of Pune, Pune 7th to 27th September 2009 UGC – Academic Staff College, Scheme, University of Pune, Pune -411007
22. Attended National Conference on Nanobiotechnology: Applications and Prospects 8th to 10th October 2009 Department of Microbiology, Abeda Inamdar senior College
23. Attended **2nd price for best paper presentation** Indo-Russian Workshop on Nanotechnology and Laser Induced Plasma-2009 (IRNANO-2009) Topic: Effects of 6 Mev electron irradiation on Zinc Oxide nanoparticles formed by Microwave assisted method. 24th to 26th November 2009 University of Delhi
24. Attended Raman Memorial Conference 2010 24th to 25th February 2010 Department of Physics, university of Pune, Pune-411007
25. Attended International Workshop on Frontiers in Electronic Structure Calculations , Techniques and Applications 15th to 17th February 2010 Department of Physics, University of Pune, Pune -411007
26. Attended and present a poster in international symposium on "Renewable Energy for Rural Development" Topic: Effects of 6 Mev electron irradiation on Titanium Oxide nanoparticles formed by Sol-gel method 25th to 27th February 2010 S. N. Arts, D. J. Malpani Commerce & B.N. Sarda Science College, Sangamner Dist. Ahmednagar
27. Attended International Conference on Biology Beyond Borders(ICBBB) 4th to 5th March 2010 University of Pune
28. Attended and presented a paper International Conference on Lasers and Advanced Materials (ICLAM-2010) Topic: Effects of 6 Mev electron irradiation on Zinc Oxide nanoparticles formed by Microwave assisted method 6th to 8th March 2010 Garware College Pune
29. Attended **and awarded as Senior Scientist** BIONANO Frontier Journal of Science and Technology 8th March 2010 Department of Bio-Physics, University of Mumbai, Vidyanagari, Santacruz(E), Kalina Mumbai-400 098
30. Attended Nanomaterials for Devices: Characterization and Applications 24th to 26th June 2010 Department of Physics, University of Pune
31. Attended Raman Memorial Conference 2011 25th to 26th February 2011 Department of Physics, University of Pune, Pune-411007
32. Attended and presented a paper International Conference on Nanomaterials & Nanotechnology 18th to 21st December 2011 University of Delhi, Delhi, India
33. Attended National Seminar Frontiers in Physics- V 17th to 19th January 2012 Department of Physics, Fergusson College, Pune-411004
34. Attended State Level Conference on “Recent Trends in Material Science” 20th to 21st January 2012 B.C.U.D., University of Pune
35. Attended and presented a paper International Conference on Business Opportunities in Life Science 28th to 30th January 2012 Modern College of Arts, Science and Commerce, Shivajinagar, Pune 411005
36. Attended Frontiers in Electronic Structure Calculations: Techniques and Applications 15th - 17th February 2012 Department of Physics, University of Pune, Pune
37. Attended University Level Seminar on Applications of Nano- Technology 16th Feb 2012 Department of Physics, Balasaheb Jadhav Arts, Commerce and Science College, Junnar, Pune-412411
38. Attended Workshop on F.Y.B.Sc Question Bank preparation under “Examination Reforms – UGC XI Plan” 28th to 30th March 2012 Fergusson College, Pune
39. Attended National Workshop on Recent Advances in Materials Engineering and Technologies (MET- 2012) 2nd -3rd May 2012 Sinhgad Institute of Technology & Science, Lonavala

40. Attended 1st International conference on functional Materials for Defence (ICFMD – 2012) 18th – 20th May 2012 Defence Institute of Advance Technology (DIAT) Deemed University, Girinagar, Pune, India
41. Attended and present a poster Raman Memorial Conference 2013 22nd to 23rd February 2013 Department of Physics, University of Pune
42. Attended and present a poster National Conference on Functional Nanomaterials: Synthesis, Characterization and Applications 31st January to 2nd February 2013, Department of Physics, University of Pune
43. Attended and present a poster INDO-US-WORKSHOP on nano-structured electronic materials: challenges & relevance to electronics & Energy Research (IUSWNM-2023) 8th – 11th March 2013 Thrissur
44. Attended University of Pune Board of college & University Development (BCUD) INNOVATION – 2013, Topic: The Synthesis and Characterization of TiO₂ nanoparticles with their application, 16th April 2013 Ahmednagar college Ahmednagar
45. Attended and present a poster International Workshop on Nanotechnology & Advanced Functional Materials NTA FM-2013 24th to 25th July 2013, Materials Research Society of India, MRSI (Pune Chapter)
46. Attended National Conference on Recent Trends in Chemistry Education 13th to 14th December 2013 P.G. Department of Chemistry, Sir Sayyed College, Aurangabad
47. Attended National Conference on ‘Sustainable Energy Development and Environment System’ (NCSEDES-2014) 10th to 11th January 2014 Haribhai V. Desai College, Pune 411002
48. Attended Frontiers in Physics-VII Astronomy Frontiers 21st to 23rd January 2014 Astro Club, Fergusson College, Pune
49. Attended Advances in Electronics & Its Interdisciplinary Applications (NCAEIA-2014) 19th – 20th September 2014 Department of Electronic Science, Fergusson College, Pune
50. Attended National Conference on Ancient Science and Technology: Retrospection and Aspiration (ASTRA-2015) 10th to 15th January 2015 Fergusson College, Pune
51. Attended Three Days Faculty Development Program on “LINUX AWARENESS” 23rd, 25th, 26th November 2016 Department of Computer Science, Fergusson college (Autonomous), Pune
52. Attended and presented a paper National Conference on Advanced Material and Application (NCAMA-2016) 4th – 5th March 2016 Department of Physics, Fergusson College, Pune

B) Awards/Fellowship

Sr. No.	Title of Conference Proceedings	Month & Date	Year	Place of Conference	Presented / attended
1.	National Level Seminar of National Children Science Congress - 2001, Department of Science and Technology, Govt. of India, Awarded to acknowledge as his contribution to NCSC as Judge	27 th -31 st December	2001	MIT Engineering College, Pune	Participated as a JUDGE (Resource Person)
2.	Refresher Course in Physics conducted at Department of Physics, University of Pune	3 rd March	2009	UGC – Academic Staff College, Scheme, University of Pune, Pune - 411007	Participated, Presented and awarded the B Grade
3.	Refresher Course in Life Science conducted at Department of Physics, University of Pune , Pune	7 th to 27 th September	2009	UGC – Academic Staff College, Scheme, University of Pune, Pune - 411007	Participated and awarded the B Grade
4.	BIONANO Frontier Journal of Science and Technology	8 th March	2010	Department of Bio-Physics, University of Mumbai, Vidyanagari, Santacruz(E), Kalina Mumbai-400 098	Participated and awarded as Senior Scientist

C) Research Projects Completed:

S.No	Title	Cost in Lakh	Start Date	End Date	Role as PI/Co-PI	Agency
1	Synthesis and characterization of TiO ₂ nanomaterial and its application	1.50	March 2012	March 2013	Principle investigator	BCUD, SPPU Pune
2	Synthesis and characterization of ZnO nanomaterial and its application	0.10	Oct 2021	March 2022	Principle investigator	DBT Star seed money scheme for colleges
3	Synthesis and characterization of nano partical and its application	0.25	Nov 2022	March 2023	Principle investigator	DBT Star seed money scheme for colleges

D)Research guidance:

M.Sc.		
Sr.	Name of Student	Year
1.	Thakare Jai Ashok	22-23
2.	Riya Manish Mahendra	22-23
3.	Omkar Padwal	22-23
4.	Gaurav Rajendra Gawande	22-23
5.	Chaitanya Rajender Patil.	22-23
6.	Muskan Shaikh	22-23
7.	Shinde Tejas	16-17
8.	Vaibhav Bhwari	17-18
9.	Dayananda karate	17-18
10.	Zhambde Popat	22-23
11.	Shrutika Shirsath	22-23
12.	Manasi Ravindra Mawale	22-23
13.	Rutik Ranpise	22-23
14.	Sushmita Arun Kunjeer	21-22
15.	Vaishnavi Sanjay Kharade	21-22
16.	Pratiksha Garaksha Barge	21-22
17.	Sushant hokhande	21-22
18.	Shraddha Pahot	21-22
19.	Jay Jagdish Jagtap	21-22
20.	Abhijeet Bhoyar	21-22

E) Research Guidance (Ph.D. Students):

1	Suryaji Netaji Mane	Studies on Synthesis, Characterization and Irradiation Effect of Metal Organic Framework and its applications
2	Abhijeet Pandurang Pole	Design, Synthesis and Characterization of Metal Organic Frameworks (MOFs) for Enhanced Hydrogen Storage and Release in Sustainable Energy Applications

E) Inventors(Patent)

Sr.No.	Patents
1	Nano composite based Humidity and Pre condensation Detection Sensors and Process ofManufacturing Thereof.Indian Patent E1/12180/2015-MUM

F)Awards:

Sr.No.	Awards	Organization
1	International	Best paper presentation award first prize in International conference on LASERS and Advanced Materials (ICLAM -2010)
2	International	Senior Scientist Award for Outstanding Contribution inResarch in the Field of Material Science by BionanoFrontiers Journal of Science and Technology
3	International	Best paper presentation 2nd Prize in Indo-Russian Workshop on Nanotechnology and Laser Induced Plasma2009 New Delhi

