



Deccan Education Society's  
Fergusson College (Autonomous), Pune  
Consultancy Services

<b>Department of B. Sc. &amp; B. Voc. Animation</b>		
Sr. No.	Areas of Consultancy	Details
1	Media and Entertainment	2d Animation
2	E-Learning	3D Animation
3	VFX, Illustration, Game Design, Animate Short movies, Motion Graphics 3d Walk-Through, Video Editing, Compositing, Flash Animation, Stop motion animation	
4	Advertising Agency	Branding
5	Pre-Press Industry	Brochure Design, Stationary Design, Graphic Design, Logo Design, Packaging Design
Name and Details of the Contact Person: Prasad Shukla animation@fergusson.edu		

<b>Department of B. Voc. Media and Communication</b>		
Sr. No.	Areas of Consultancy	Details
1	Video Production (Pre- Post production)	Short film, (Fiction & Non-fiction), Corporate films, Education Films, Ad films, Training videos, Face book videos, Product videos
2	Pre production: Script Writing, Content writing	Fiction & Non- Fiction
3	Photography / Videography	Feature Film, Ad film, Short film, Wedding Shoot/ Photography
4	Social Media Marketing	Facebook, Instagram, You Tube
5	Post Production: Video Editing	Final cut pro, Adobe premier
6	Media Research	
7	Public Relation & Advertising	
8	Audio Production	Radio Advertising

Name and Details of the Contact Person: Shri.Swapnil Kamble bvocmedcom@fergusson.edu
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<b>Department of Biotechnology</b>		
Sr. No.	Areas of Consultancy	Details
1.	Soil analysis	Physico Chemical and Microbiological
2.	Testing of Potability of water	Bacteriological
3.	Microbial analysis of food samples	Basic analysis (e.g. coliform count)
4.	Training programme for use of Foldscope	Use and applications
5.	Training programmes in Tissue Culture techniques.	Will be designed as per requirement
6.	Training programmes in Molecular Biology techniques	Will be designed as per requirement
7.	Training programme in basic Bioinformatics.	
8.	Training programme in use of Bench top Fermenter	From Screening to use lab Scale Fermenter for a product
9.	Content analysis of Medicines	Validation of the mentioned contents
Name and Details of the Contact Person Dr. Sonali Joshi biotechnology@fergusson.edu		

<b>Department of Chemistry</b>		
Sr. No.	Areas of Consultancy	Details
1	Analytical Chemistry	Soil and water analysis
		Food adulteration analysis
		Spectroscopic Analysis: 1. Infrared (IR) 2. Ultraviolet (UV) 3. Atomic Absorption (AA) 4. Flame Photometer
		Separation and Analysis: 1. Gas chromatography (GC) 2. High Performance Liquid Chromatography (HPLC)
		Cyclic Voltametry (CV)
		Thermogravimetric Analysis (TGA)
		2
3	Organic Chemistry	Process Development

		Process Improvement
		Project Management
		Medicinal chemistry
Name and Details of the Contact Person: Shri. Shridhar Vhankate chemistry@fergusson.edu		

<b>Department of Computer Science</b>		
Sr. No.	Areas of Consultancy	Details
1	Corporate Training	Company requires training session to be conducted for their employees. Training sessions can be offered in various areas such as – <ul style="list-style-type: none"> <li>• Operating Systems</li> <li>• Programming Languages</li> <li>• Databases</li> <li>• Data Analytics</li> <li>• Business Intelligence</li> <li>• Data Science</li> <li>• Web Development</li> </ul>
2	Live Projects	Our students can contribute in Live project development. As company requires students to develop small scale tools for their existing project.
3	Development of Test cases for Live Projects.	Students can contribute in developing test cases for testing applications developed by companies.
4	Research Consultancy	Our teachers can provide consultancy for writing and presenting research papers and posters.
Name and Details of the Contact Person: Dr. Kavita A. Khobragade computerscience@fergusson.edu		

<b>Department of Electronic Science</b>	
Sr. No.	Areas of Consultancy
1	Smart system design, networking and applications
2	Embedded Systems & Machine Vision
3	Semiconductor devices , Digital Systems, Verilog & Instrumentation
4	Matlab and Simulink, Embedded C Programming , Lab view programming
5	Power Electronic Systems and Industrial Automation.

6	WSN, Embedded system, Python Programming & IOT
7	16-bit / 32 Microcontroller Systems and Application, DSP & RTOS
8	Digital System Implements using CPLD / FPGA, 8- bit Microcontroller System & Communication
9	Electronic Instrumentation Networking , Mathematical Modelling
10	Electronic System Design Prototyping and Troubleshooting Microcontrollers.
11	Consumer Electronics, Electronic Circuit Designing and Troubleshooting
12	Industrial Automation and PLC Programming.
	Name and Details of the Contact Person: Dr. Nitin Kulkarni electronicscience@fergusson.edu

<b>Department of Environmental Science</b>		
<b>Sr. No.</b>	<b>Areas of Consultancy</b>	<b>Details</b>
1.	Water Quality monitoring	Monitoring of physicochemical water quality parameters like pH, conductivity, Total Hardness, Ca and Mg hardness, Chlorides, Alkalinity, Phosphates , Sulphates , Nitrates, Dissolved oxygen, Sodium , Potassium , Chemical oxygen Demand, MPN etc.
2.	Soil Quality monitoring	pH, conductivity, N,P,K, organic matter, organic carbon, etc.
3.	Noise Monitoring	Annoyance Score, Equivalent Noise level
4.	Air Quality Monitoring	Particulate matter and gases in Ambient Environment
5.	Biodiversity Monitoring	Field survey planning and assessment Assessment of avian and reptilian diversity.
6.	GIS consultation	Forest Mapping, Water quality mapping, soil quality mapping. Land Use Land Cover Maps. Change Detection.
	Name and Details of the Contact Person: Smt. Rupali Gaikwad environmentalscience@fergusson.edu	

<b>Department of Geology</b>		
Sr. No.	Areas of Consultancy	Details
1	Hydrogeology	Hydrogeological & geological survey & mapping for different Groundwater & Rain Water Harvesting related problems
2	Electrical Resistivity	Survey for Groundwater & other purposes
3	Gemmology	Gem identification and certification
4	Petrographic analysis of thin sections of rocks	Identification of various igneous, metamorphic and sedimentary rock types. Detailed report with photographs of thin sections
Name And Details Of The Contact Person: Dr. Tanuja Marathe geology@fergusson.edu		

<b>Department of Microbiology</b>		
Sr. No.	Areas of Consultancy	Details
1.	Biocomposting and personalized fertilizers	Use of lignin and cellulose degraders to improve quality of compost and reduce the time required for composting. Use of herbal extracts to improve quality of compost. Soil analysis to identify lacunae in soil fertility and provide personalized soil fertility solutions.
2.	Testing antimicrobial activity of samples	Using standard laboratory cultures both Gram positive and Gram negative bacteria as well as fungal cultures antibacterial and antifungal activity can be determined and quantified.
3.	Soil analysis	As per standard protocols soil analysis facility can be provided, especially with respect to microbial load.
4.	Provision of bacterial cultures	Bacterial cultures isolated and identified using standard biochemical and morphological analysis can be provided.
5.	Water analysis	Water samples can be tested for their potability.
6.	Biofertilizers	Biofertilizer formulations can be provided for application in gardens, landscaping and fields.
Name and Details of the Contact Person: Smt. Meghana Kulkarni microbiology@fergusson.edu		

<b>Department of Physics</b>	
1	Overseas scholarships and admissions for MS and PhD courses abroad.
2	Setting up Astronomy Observatory at school and college level.
3	Enhancing Leadership qualities among undergraduate students.
4	Enhancing Science education at primary and secondary school level including teachers training.
5	Consultancy regarding National Olympiad programs in all (science) subjects for XI <sup>th</sup> and XII <sup>th</sup> students including National Graduate Examination in Physics.
6	Project ideas and project report writing for postgraduates and undergraduate students.
7	Research proposals writing.
8	Energy audit of educational institutions.
Name and Details of the Contact Person: Dr. Raka Dabhade physics@fergusson.edu	

<b>Department of Statistics</b>		
Sr. No.	Areas of Consultancy	Details
1.	Statistical Quality control	Industrial statistics, Control charts, Process Capability etc.
2.	Reliability and Survival analysis	Reliability of system, components, Life time data analysis.
3.	Regression analysis	Simple and Multiple Regression models, Polynomial and logistic Regression models.
4.	Applied Statistics	
5.	Data analysis using R-software	
6.	Statistical data analysis required in the field of biology , physiotherapy medical sciences , agricultural science , industrial field etc. for researchers	Techniques such as Regression , design of experiments , time series , statistical testing using R / SPSS.
7.	Statistical data analysis of various research projects in different fields such as finance , economics, microbiology , biotechnology, psychology ,agriculture , etc.	Techniques such as Regression , statistical modeling, design of experiments , Time series , statistical testing using R / SPSS.
Name and details of the contact Person : Shri.Subhash Shende statistics@fergusson.edu		

<b>Department of Zoology</b>		
<b>Sr. No.</b>	<b>Areas of Consultancy</b>	<b>Details</b>
1.	Animal Bio-diversity Mapping	Western Ghats is having rich animal biodiversity hotspot therefore mapping of this biodiversity is necessary because of the variations in the biodiversity due to human interferences, deforestation, industrialization, civilization, construction. Therefore the mapping is necessary and this facility can be provided by experts of the departments.
2.	Soil Analysis	The soil very imp biological factors pertaining to agriculture, industrialization and civilization. Therefore the analysis of these biotic factors is having its own importance. Therefore this analysis facility can be provided by experts of the departments.
3	Water Analysis	Analysis of physical, chemical and biological parameters of samples from Pune could be done to understand the level or extent of pollution as well as the quality of water to start pisciculture / use it in agricultural field/ for drinking purposes etc.
Name and Details of the Contact Person: Dr. Kishor Pendharkar zoology@fergusson.edu		