



Fergusson College (autonomous), Pune
Internal Quality Assurance Cell (IQAC)
2019-2020

Plan of Action and Achievements

Sr.No.	Plan of action	Achievements
1	Diagnostic Test at entry level for undergraduate and post graduate programmes	<ul style="list-style-type: none">• Diagnostic test has been implemented at entry level for all post graduate programmes.• The test was MCQ based and a bench mark of 40% or less was kept in identifying a slow and advanced learner.
2	Catering to diverse needs of advanced learners	<ul style="list-style-type: none">• Skill enhancement courses/ programmes and activities were organized for advanced learners.• The Internal assessment provides flexibility in assessment. Diverse methods of assessment have been created by departments for advanced learners.• Project work for advanced learners and motivating and providing subjective guidance to such students for participating in various schemes and competitions.• Lectures/Interactive sessions on special topics like 'Astrobiology, Use of scientific toys for understanding the principles of science', 'How to write effective research paper', 'Into the History of Scientific Discoveries and Inventions, Realization of Hydrogen Economy with Electrochemical Energy Devices, Development of Animal Forms - formation and evolution of animal body forms. Using <i>Drosophila melanogaster</i>, <i>Xenopus laevis</i> and stem cells as key examples to explain various cellular signaling mechanisms which govern the formation of an

		<p>organism from a single cell to a multicellular organism, Aging and Mitochondrial Biology, Role of pharmacognosy in drug development’, Recent Techniques in Genetic Engineering, An overview of vaccine production process’, Online Webinar on “Bug Bounty in CYBER SECURITY” and Introduction to scientific hobby: HAM radio.</p>
3	<p>Mapping of Course Outcomes and Programme Outcomes- Developing an OBE model for all academic programmes</p>	<ul style="list-style-type: none"> • Extensive training of teachers in understanding and writing course outcomes was undertaken and teachers are now trained to write course outcomes. • The process of mapping and attainment has been designed and finalized and will be implemented in due course of time.
4	<p>Documentation of innovative methods of Evaluation/assessment</p>	<ul style="list-style-type: none"> • Documentation of innovative methods of evaluation/assessment has been done by departments.
5	<p>Publications in SCOPUS/Web of Science/UGC CARE list journals</p>	<ul style="list-style-type: none"> • Number of publications in SCOPUS/Web of Science/UGC CARE list journals of some departments is as follows: Botany=04, Environmental Science= 02 Geology=05, Physics=07 and Statistics=01
6	<p>Promotion of Research</p>	<ul style="list-style-type: none"> • Orientation programme/ presentation on new schemes - UGC SPARC programme, ISRO projects and UGC-STRIDE Scheme • Two research projects under UGC-STRIDE (Component-II) have been shortlisted. • Writing of policies for research, Plagiarism and Consultancy

7	Mentoring for all students	<ul style="list-style-type: none"> • The process/ mechanism of mentoring has been well established for all students and for all academic programmes
8	Skill based training programmes for students	<ul style="list-style-type: none"> • Skill based training programmes have been conducted through UGC-STRIDE programme and DBT - STAR Scheme. • Additional practicals for undergraduate science students and Hands on Training programmes/ workshops (Biotechnology-12, Chemistry-07, Computer Science-04, Electronic Science-12, Geology-06, Microbiology-03, Physics-06, Statistics-04 and Zoology-04) • Other Skill Enhancement programmes: Introduction to Python: - 12 hrs, Introduction to Econometrics with R - 12 hrs, Special Insights into Econometrics-6 hrs. and LINUX OS -15 hrs.
9	Creating awareness regarding IPR	<p>Following programmes has been conducted related to IPR- Writing policies with special reference to research and consultancy, Public Talk - National and International Status of IPR, Public Talk - GI(Geographical Indication: Importance and Necessity), Patenting Procedures and various forms of IPR for Life Science, IPR for Computer Science, Electronic Science and Fundamental Sciences, Forms of IPR in Arts and Humanities, Patenting Procedure and various forms of IPR for Chemical Sciences, Avenues and opportunities in Patinformatics, How an idea leads to US Patent :Inventors Perspective, Avenues and opportunities in IPR for Faculty and Career Avenues and opportunities in IPR for Students</p>
10	Diversification of Outreach Programmes	<ul style="list-style-type: none"> • Science Education Initiative (SEI): Under the Ramanujan training program this year 55 students from the Pune Municipal Corporation schools were trained for the International Math Olympiad examination. Out of this, 40 students appeared for the exam. • Geography Teacher's Workshops on Introduction to Geology, Earth and Solar System, Evolution of the Earth and Topography and Landforms. The teachers

		<p>also had a hands-on training on Maps and Toposheet reading and on minerals, rocks, fossils and rock thin sessions. Geography school teachers from 15 various schools in and around Pune city</p> <ul style="list-style-type: none"> • Two-day workshop on ‘Introduction to the Exciting World of Microbiology’ for high school students, The workshop was conducted in the science laboratory of New English School, Ramanbaug Pune where the presence of skin microflora, effect of sanitizers on the growth of microbes, presence of microflora in the air, yogurt cultures, effect of natural anti-microbial agents like clove oil, turmeric were demonstrated. 60 high school students from class 9th from New English School, Ramanbaug, Pune actively participated in this workshop. • Two-day workshop on ‘Understanding life-style diseases using Clinical biochemistry for high school teachers’. The workshop covered, Basic clinical biochemistry techniques like blood sugar estimation, techniques to identify pathogen using enzymology and qualitative tests for detection of carbohydrates and proteins. • Three-day programme on ‘Popularization of Science’. Lectures by eminent scientists on various topics and hands-on session on the use of scientific toys made from simple daily use objects to demonstrate. • Robinhood Army Educational Visit • Disposable Bag Making • Beti Bachao Beti Padhao Event
11	Innovative Activity	Recording of books for visually challenged students of college studying in faculty of Arts. This is a platform where any one can record and book in audio form and make it available for

		the student. A “virtual Study Circle” has also been formed for enhancing teaching-learning activities.
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