

Dr Ambedkar College of Arts Commerce & Science, Chandrapur

PROGRAMME OUTCOMES

MASTER OF SCIENCE

M.SC BOTANY

1. Knowledge and understanding about plant diversity
2. Students learn to carry out practical work, in the laboratory and the field
3. Students know about plant classification and the flora of Maharashtra.
4. The role of plants in the functioning of the global ecosystem
5. Presentation skills (oral& writing) in plantsciences
6. Learn about practical technique in lab for detail study of phycology, mycology, reproductive biology, plant growth and development, plant taxonomy, anatomy, plant biochemistry, physiology, cell biology, genetics, biotechnology, plant ecology, basic botany, paleobotany, ethnobotany and applied botany and economic botany,
7. Scientific knowledge in life science and fundamental metabolism of plants
8. Knowledge about biodiversity exploration, estimation and conservation
9. Research oriented learning
10. M.Sc. students focused on research & diverted to research activity
11. It enhances skills in handling scientific instruments, planning and executing biological research
12. It also promotes creative ideas in biological concepts.
13. Prepare the students for many competitive exams like MPSC, UPSC, NET, SET
14. It promotes career and job opportunities in both Govt. and private sectors.
15. Plan, conduct and write a report on an independent on project.
16. Students know about effective management to set goal and establish priorities
17. Apply the knowledge of basic science, life sciences and fundamental process of plants to study and analyze any plant form.
18. Identify the taxonomic position of plants, formulate the research literature, and analyze non reported plants with substantiated conclusions using first principles and methods of nomenclature and classification in Botany.

M.SC CHEMISTRY

1. Gains complete knowledge about all fundamental aspects of all the elements of chemistry
2. Understands the background of organic reaction mechanisms, complex chemical structures and instrumental method of chemical analysis, molecular rearrangements and separation techniques.
3. Appreciates the importance of various elements present in the periodic table, coordination

chemistry and structure of molecules, properties of compounds, structural determination of complexes using theories and instruments.

4. Gathers attention about the physical aspects of atomic structure, dual behavior, reaction
5. pathways with respect to time, various energy transformations, molecular assembly in Nano level, significance of electrochemistry, molecular segregation using their symmetry.
6. Learns about the potential uses of analytical industrial chemistry, medicinal chemistry and green chemistry.
7. Carry out experiments in the area of organic analysis, estimation, separation, derivative
8. process, inorganic semi micro analysis, preparation, conductometric and potentiometric analysis.

M.SC MATHEMATICS

The successful completion of this program will enable the students to

1. Students will demonstrate in-depth knowledge of Mathematics, both in theory and application.
2. Students will attain the ability to identify, formulate and solve challenging problems in Mathematics.
3. Students will be able to analyze complex problems in Mathematics and propose solutions using research based knowledge
4. Students will be aware of their professional and ethical responsibilities.
5. Students will be able to work individually or as a team member or leader in uniform and multidisciplinary settings.
6. Students will develop confidence for self-education and ability for lifelong learning.
7. Acquire deep knowledge of different mathematical and computational disciplines so that they can qualify NET/ GATE examination

M.SC ZOOLOGY

1. Understand the concept of Ultra-structures of protozoan, locomotory organ, Polymorphism and metamorphosis
2. Understand the whole concept of Enzymes, Respiratory pigment, Neurotransmitters, Colour change mechanism
3. Get detail knowledge about the Male accessory sex gland in mammals, Semen and Pheromones and sexual behavior in mammals.
4. Understand the origin and ancestry of Chordate, General organization and affinities of Cephalochordata and Dipnoi
5. Understand the concept of comparative anatomy of the brain in vertebrates.
6. Give the demonstration on the Evolution of heart in vertebrates and sense organ in vertebrates, Evolution of Man.

M.SC ELECTRONICS

1. The students should possess the knowledge, skills and attitudes during the end of the M. Sc. degree course.
2. He can handle various Instruments in Medical like ECG, EEG, EMG, Ultrasonography and many medical Instruments
3. FuzzyLogic is used when one wants to deal with uncertainty of non-statistical kind.
4. This course aims to develop an understanding of the conceptual framework of Programming in C, C++.
5. The students provides knowledge on design of process control by using virtual instrumentation techniques. He acquires knowledge in process analysis by VI