Department of Physics (M.Sc)

Objective:

1. The department of Physics is committed to impart quality education both in theoretical as well as experimental Physics.
2. To enable the students to acquire deep knowledge on fundamental aspects of all streams of Physics.
3. To assist the students in acquiring basic knowledge in the specialized thrust area like Electronics, High energy Physics, Plasma Physics, Solid state Physics and Astrophysics.
4. To develop abilities that encourages research and development activity and is useful in daily life.

Outcomes:

After the completion of the M.Sc. in Physics, students should

1. Have acquired extensive knowledge of different in Physics and basic knowledge in mathematics with advanced knowledge in some specialized area in Physics.
2. Have some research experience within a specific field of Physics through dissertations (projects).
3. A broad spectrum in different technical and educational field is also approachable as experimental knowledge of the concerned subject is quite helpful.

Department of Chemistry (M.Sc)

Program specific objectives:

1.To educate and prepare post graduate students from rural to urban area who will get employment on large scale in academic institute, R & D and quality control laboratories of Indian chemical/pharmaceutical industries as well as multinational and forensic Laboratories.

2. To provide students with broad theoretical and applied background in all specialization of chemistry with emphasis on qualitative and quantitative technique.

3.To provide broad common frame work of syllabus to expose our young graduates to the recent and applied knowledge of interdisciplinary braches of chemistry involving applied organic, inorganic, physical, analytical, industries, pharmaceutical, polymer, Nano science & technology.

4. To conduct lesser written tests and to encourage on non-written tests.

5. To focus on encouraging students to conduct various academic activities like midterm tests, online tests, open book tests, tutorial, surprise test, oral, seminar, assignments and seminar presentation.

Program outcome:

1. A graduate with a master's degree in chemistry has in-depth and detailed functional knowledge of the fundamental theoretical concepts and experimental methods of chemistry.

2. The graduate has expert knowledge of a well-defined area of research within chemistry. The graduate has specific skills in planning and conducting advanced chemical experiments and applying structural- chemical characterization techniques.Skilled in examining specific phenomenon theoretically and/or experimentally, the graduate is able to contribute to the generation of new scientific insights or to the innovation of new application of application of chemical research.

Department of Botany (M.Sc)

Objectives:

1.To impart the knowledge of plant sciences and make the students open minded, critical and curious about plants is the basic objective of Botany.

2. To understand scientific terms, concepts, facts, phenomenon and their relationships regarding plants.

3. To develop skill in practical work, experiments and laboratory materials, related to plants.

4. To make the students aware of natural resources and environment.

5. To enable the students to acquire the attitude of responsibility towards conservation and sustainable use of the natural resources.

6. To equip the students with the basics of plant sciences thereby enabling them to apply the acquired knowledge for improvement of agriculture and related fields to make the country self- reliant.

Programme specific outcomes/ Career Opportunities:

1. The students will pass out with proficiency in Botany.

2. Students can go for multifariousResearch field of Plant Sciences.

3. The students will be eligible to appear for the examinations for their jobs in government and non- government organizations.

4. Scope in Research laboratories, pathology laboratories, Forest and Environment related departments.

5. The students will be able to start ventures related to plants viz. horticulture units, agro-units (mushroom cultivation, plant-tissue culture, Hi-Tech Nursery etc.), plant exploration, and conservation NGO.

6. The students equipped with the basics of plant sciences will be able to apply the knowledge in practising agriculture with a scientific outlook thereby increasing the production and profits.

7. The students will become aware about their responsibility towards nature and environment.