

DEPARTMENT OF PG MICROBIOLOGY AND RESEARCH CENTRE

PROGRAMME OBJECTIVES

1. To encourage microbiology students to participate in highly competitive National Exams like CSIR-NET/SLET and GATE.
2. To encourage the students to use Internet facilities in addition to reading of text books and Scientific Journals is a compulsory practice to the students to update their knowledge with reference to current developments in Science & Technology around the world and in India.
3. To pursuit excellence in presentation skills, students guided to participate and present research papers at National Seminars and Models in Academic Exhibitions.
4. To develop skill and hands on experience, students were given training in the advanced lab techniques.
5. To expose students to Industries/Institutes organized to develop zeal and enthusiasm towards R & D programmes.
6. To prepare students to the Industrial environment so as to improve skill development and future placements.
7. To offer useful and relevant hands on learning experimental programmes during two years study period of students.
8. To prepare the students to get jobs in food and pharmaceutical industries, medical Laboratories and in research Laboratories.

PROGRAMME OUTCOMES

1. Result showed high pass percentage with distinctions.
2. 50 -80% students have been employed after successful completion of the course.
3. Quiz contests, Group discussions and Core subject skits were conducted to improve different skills of the students.
4. Special moral classes and counseling classes were conducted per week to promote good ethics and morale among the students.

COURSE OBJECTIVES

The PG Microbiology is designed by the Andhra University in to four semesters.

1. The student will be aware of the basics of the General Microbiology, Virology, Bio-molecules and Analytical Techniques.
2. The basic practical knowledge is integrated in Microbiological methods & Virology and Analytical Techniques.
3. The Microbial Physiology & Metabolism, Enzymology & Cell Biology, Molecular & Microbial Genetics and Immunology were thought in the second semester for knowing the depth of the subject.
4. The subject learned in theory is kept in practicals under the headings: Enzymology & Immunology and Microbial Physiology & Genetics.
5. The advanced technology is designed in the third semester with Molecular Biology, Medical Microbiology, Bio-statistics & Bio-informatics and Molecular Biotechnology.
6. The advanced technology in theory is exhibited in the form of practicals as Molecular Biology & Molecular Biotechnology and Medical Microbiology & Bio-informatics.
7. The specialized papers are integrated in the fourth semester as Fermentation Technology & Industrial Microbiology, Environmental Microbiology, Food Microbiology & Agriculture Microbiology and Pharmaceutical Microbiology.
8. The practical are designed to let the students to get in to small scale industries and pharmaceutical industries with the practicals of Industrial Microbiology & Environmental Microbiology and Food, Agriculture & Pharmaceutical Microbiology

COURSE OUTCOMES

1. The student will be aware of the basics of the General Microbiology, Virology, Bio-molecules and Analytical Techniques.-Will prepare the students for self employment as water purification plant, mushroom cultivation and Microbiology laboratory.
2. The Microbial Physiology & Metabolism, Enzymology & Cell Biology, Molecular & Microbial Genetics and Immunology were thought in the second semester for knowing the depth of the subject.- Will prepare the students for entering Research and Development Laboratories, Research projects and CSIR Laboratories.
3. The practical are designed to let the students to get in to small scale industries and pharmaceutical industries with the practical hands on experience of Industrial Microbiology & Environmental Microbiology and Food, Agriculture & Pharmaceutical Microbiology