

PG Department of Microbiology

Programme Offered

B. Sc., (MICROBIOLOGY) 3 years-Full time

M. Sc., (APPLIED MICROBIOLOGY) 2 years-Full time

Curriculum

Department of Microbiology established in the year 1999 is one of the oldest departments in the college. PG Course was started from 2004. It has well furnished laboratories with all basic and advanced facilities to cater to the needs of the students. The department has well qualified staff members with the mission of producing intellectually motivated, scientifically advanced young community. The department has produced rank holders. Our students are well placed as research scholars and placed in leading industries.

In addition to the University Core Curriculum required of all students pursuing a bachelor's degree at NPSB, students majoring in microbiology will take a combination of courses in basic science and specialized courses from the Department. This Microbiology graduates for jobs in the pharmaceutical and related industries, for entry into professional, medical and laboratory technicians and other areas of molecular biology.

B.Sc., MICROBIOLOGY

I YEAR	II YEAR	III YEAR
SEMESTER - I	SEMESTER - III	SEMESTER - V
Language-I	Language – III	Medical Bacteriology
English –I	English – III	Medical Mycology & Parasitology
Allied-1: Biochemistry-I	Allied: Bio-Instrumentation	Medical Virology
Part III: General Microbiology and Microbial Physiology	Part III: Molecular Biology	Elective: Genetic Engineering
Practical –I General Microbiology and Microbial Physiology	Practical –III Molecular Biology	Practical V: Medical Bacteriology, Mycology, Parasitology and
Practical –I Biochemistry-I	Practical –IV Bio-Instrumentation	Value Education
Non Major Elective: Cellular Organization	Environmental Studies	
Soft Skills- I	Soft Skills- III	
SEMESTER - II	SEMESTER - IV	SEMESTER - VI
Language-II	Language – IV	Environmental and Agricultural Microbiology
English –II	English – IV	Food and Dairy Microbiology
Allied-II: Biochemistry -II	Allied : Bio-Statistics	Practical VI: Environmental, Food & Dairy Microbiology
Part III: Immunology and Microbial Genetics	Part III: Soil and Agricultural Microbiology	Elective II: Industrial & Pharmaceutical Microbiology
Practical – II: Biochemistry -II	Practical - IV Soil and Agricultural Microbiology	Elective III: Bio-Technology
Practical – II: Immunology and Microbial	Practical - IV Bio-Statistics	
Non Major Elective: Inheritance Biology	Environmental Studies	
Soft Skills-II	Soft Skills-IV	

M. Sc., APPLIED MICROBIOLOGY

I YEAR	II YEAR
SEMESTER - I	SEMESTER - III
Microbial Taxonomy	Microbial Genetics
General Microbiology & Laboratory Animal Science	Genetic Engineering
Immunology	Molecular Biology
Elective I: Metabolic Pathway	Practical III: Microbial Genetics, Molecular Biology and Genetic Engineering
Elective II: Microbial Diversity	Elective IV: Soil and Agricultural Microbiology
Practical-I General Microbiology, Microbial Physiology & Immunology	Extra disciplinary Elective II: Environmental Biotechnology
Soft skill- I	Internship
	Soft Skill - III
SEMESTER - II	SEMESTER - IV
Virology	Food, Dairy and Environmental Microbiology
Systematic Medical Bacteriology	Practical IV – Soil, Agricultural, Food and Environmental Microbiology
Mycology & Parasitology	Project
Extra Disciplinary: I Biostatistics and Bio Informatics	Elective V – Research Methodology
Practical II: Systematic Bacteriology, Mycology, Parasitology & Virology	Soft Skill – IV
Elective III: Industrial and Pharmaceutical Microbiology	
Soft Skill - II	

VALUE ADDED COURSES:

Certificate course on “Eco-Micro Products” have been conducted by the PG Department of Microbiology, for the students of all discipline. This course provides adequate knowledge about preparation of organic manure, composting, bio-fertilizers and Single Cell Protein which will help them to be a good entrepreneur in the commercial market.