

FACULTY OF SCIENCE AND TECHNOLOGY - M.SC. MICROBIOLOGY (PG) PROGRAM
NEP 2020 SEMESTER PATTERN

SEM- I

Major Subject (Mandatory)

01. Microbial Diversity and Evolution
02. Enzymology and Techniques
03. Commercial Microbiology

Major Elective (Any one)

01. Microbial Physiology and Metabolism
02. Principle of Microbiology
03. Pharmaceutical Microbiology
04. Advanced Microbiology
05. Agriculture, Dairy & Food Microbiology

Compulsory Paper (RM)

01. Research methodology

SEM- II

Major Subject (Mandatory)

01. Advance Techniques in Microbiology
02. Membrane structure and signal transduction.
03. Microbiological Testing of industrial product

Major Elective (Any one)

01. Microbial Methods for environment management
02. Biosafety and IPR
03. Microbial Biotechnology
04. Microbial Enzyme Technology
05. Microbes in sustainable agriculture & Development

Compulsory Paper (RM)

01. On Job Training or Field Work

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SEM- III

Major Subject (Mandatory)

01. Genetics and Molecular Biology
02. Recombinant DNA Technology
03. Bioprocess Technology

Major Elective (Any one)

01. Food Microbiology and Food Safety
02. BIOCHEMISTRY
03. Cell Biology
04. Instrumentation and Biotechniques
05. Microbial Metabolism

Compulsory Paper (RM)

01. Research Project

SEM- IV

Major Subject (Mandatory)

01. Medical Microbiology and Parasitology
02. Immunology

Major Elective (Any one)

01. Virology
02. Biostatistics and Bioinformatics
03. Microbes in Environment
04. Microbial Diagnosis in Health Clinics
05. Management of Human Microbial Diseases

Compulsory Paper (RM)

01. Research Project