

DEPARTMENT OF MICROBIOLOGY

COURSE: B.Sc – Microbiology

Details of course outcome, i.e. (CO & CSO)

Course : B.Sc. I (CBCS Pattern)

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| Paper I | Introduction to Microbiology | Knowledge regarding microscopy and staining of micro-organisms |
| Paper II | Microbial Diversity | Study of micro-organisms and their control |
| Paper III | Bacteriology | Isolation and detail study of bacterial cell |
| Paper IV | Microbial Biochemistry | Study of biomolecules and modes of ATP generation |

COURSE: B.Sc. II (Old Pattern)

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| Paper V | Cytology Physiology and metabolism | Structure of cell parts, microbial growth and modes of ATP generations |
| Paper VI | Microbial Genetics | Basics of genetics, mutation and repair and gene transfer mechanism |
| Paper VII | Fundamentals of Industrial Microbiology, Biostatistics and Bioinformatics | Concept of fermentation, Biostatistics and Bioinformatics and Bioinstrumentation |
| Paper VIII | Basics of immunology and medical microbiology | Basics of immunology and microbial diseases |

COURSE : B.ScIII (Old Pattern)

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| Paper IX | Virology | Classification, structures, isolation, Purification, multiplication and pathogenicity of viruses |
| Paper X | Immunology and serology | Mechanism of antibody production and hypersensitivity |
| Paper XI | Food and Industrial Microbiology | Probiotics and food infection and Food poisoning, Techniques in industrial microbiology |
| Paper XII | Agricultural Microbiology | Exploring microbial activities in soil |
| Paper XIII | Microbial Genetics | Concepts, techniques of genetics and genetic engineering |
| Paper XIV | Microbial Biochemistry | Study of enzymes and their role in microbial metabolism |
| Paper XV | Environmental Microbiology | Study of pollution parameters and its monitoring in different environments |
| Paper XVI | Clinical Microbiology | Study of microbial diseases and their control |