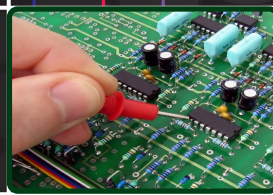


SANGAI INTERNATIONAL UNIVERSITY



Syllabus B. Sc. Honours Microbiology

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Structure of B. Sc. Honours Microbiology under CBCS

Core Course

- C-1: Introduction to Microbiology and Microbial Diversity
- C-2: Bacteriology
- C-3: Biochemistry
- C-4: Virology
- C-5: Microbial Physiology and Metabolism
- C-6: Cell Biology
- C-7: Molecular Biology
- C-8: Microbial Genetics
- C-9: Environmental Microbiology
- C-10: Food and Dairy Microbiology
- C-11: Industrial Microbiology
- C-12: Immunology
- C-13: Medical Microbiology
- C-14: Recombinant DNA Technology

Discipline Specific Elective (Any Four)

- DSE-1: Bioinformatics
- DSE-2: Microbial Biotechnology
- DSE-3: Advances in Microbiology
- DSE-4: Plant Pathology
- DSE-5: Biomathematics and Biostatistics
- DSE-6: Inheritance Biology
- DSE-7: Microbes in Sustainable Agriculture and Development
- DSE-8: Biosafety and Intellectual Property Rights
- DSE-9: Instrumentation and Biotechniques
- DSE-10: Project Work

Generic Electives (Any Four)

- GE-1: Introduction and Scope of Microbiology
- GE-2: Bacteriology and Virology
- GE-3: Microbial Metabolism
- GE-4: Industrial and Food Microbiology
- GE-5: Microbes in Environment
- GE-6: Medical Microbiology and Immunology
- GE-7: Genetic Engineering and Biotechnology
- GE-8: Microbial Genetics and Molecular Biology

Ability Enhancement Compulsory Courses

- AE-1: Environmental Sciences
- AE-2: English/MIL Communication

Skill Enhancement Elective Courses (Any Two)

- SE-1: Microbial Quality Control in Food and Pharmaceutical Industries
- SE-2: Microbial Diagnosis in Health Clinics
- SE-3: Biofertilizers and Biopesticides
- SE-4: Food Fermentation Techniques
- SE-5: Management of Human Microbial Diseases
- SE-6: Microbiological Analysis of Air and Water