

POSTGRADUATE PROGRAM

M.Sc. Microbiology



योग: कर्मसु कौशलम्

INDRASHIL UNIVERSITY

Department of Biosciences | School of Science

M.Sc. Microbiology (2025-2027)

Postgraduate Program (2 Years | 4 Semesters)
Course Structure for M.Sc. Microbiology

Subject Name	Subject Code	Credit (Theory)	Credit (Practical)
SEMESTER I			
Biochemistry	CBM 401	3	0
Cell Biology	CBM 402	3	0
Molecular Biology	CBM 403	3	0
Ecology and Evolution	CBM 404	3	0
IPR, Biosafety and Bioethics	EBM 405	2	0
Personality development (Skill development)	EBM 406	2	0
Laboratory I	CBM 407	0	4
Laboratory II	CBM408	0	4
		Total	24
SEMESTER II			
Microbiology	CBM 409	3	0
Genetics	CBM 410	3	0
Immunology	CBM 411	3	0
Enzymology	CBM 412	3	0
Fundamentals of Omics	EBM 413	2	0
Biostatistics and Bioinformatics	EBM 414	2	0
Laboratory III	CBM 415	0	4
Laboratory IV	CBM 416	0	4
		Total	24
SEMESTER III			
Microbial Physiology	CBM417	3	0
Recombinant DNA Technology	CBM418	3	0
Industrial Microbial Technology	CBM419	3	0
Food and Dairy Microbiology	CBM420	3	0
Environmental Microbiology	EBM 421	2	0
Metabolic Engineering	EBM 422	2	0
Laboratory V (Microbial physiology and Genetic Engineering)	CBM423	0	4
Laboratory VI (Industrial microbial technology and Environmental Microbiology)	CBM424	0	4
		Total	24
Semester IV			
Critical review and assessment of research paper and Industrial Visit	EBM425		2
Preparation of project proposal	EBM426		2
Dissertation	CBM427		20
		Total	24

*Credit to Hours calculation Lecture: 1 Credit = 1h, Practical: 1 Credit = 2h. CB-: Core Biology, EB-: Elective Biology