

POSTGRADUATE PROGRAM

M.Sc. Biotechnology



INDRASHIL UNIVERSITY

Department of Biosciences | School of Science

M.Sc. Biotechnology (2025-2027)

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

Subject Name	Subject Code	Credit (Theory)	Credit (Practical)
SEMESTER I			
Biochemistry	CBB 401	3	0
Cell Biology	CBB 402	3	0
Molecular Biology	CBB 403	3	0
Ecology and Evolution	CBB 404	3	0
IPR, Biosafety and Bioethics	EBB 405	2	0
Personality development (Skill development)	EBB 406	2	0
Laboratory I	CBB 407	0	4
Laboratory II	CBB 408	0	4
		Total	24
SEMESTER II			
Microbiology	CBB 409	3	0
Genetics	CBB 410	3	0
Immunology	CBB 411	3	0
Enzymology	CBB 412	3	0
Fundamentals of Omics	EBB 413	2	0
Biostatistics and Bioinformatics	EBB 414	2	0
Laboratory III	CBB 415	0	4
Laboratory IV	CBB 416	0	4
		Total	24
SEMESTER III			
Animal Biotechnology	CBB 417	3	0
Recombinant DNA technology	CBB 418	3	0
Industrial Microbial Technology	CBB 419	3	0
Plant Biotechnology	CBB 420	3	0
Environmental Biotechnology	EBB 421	2	0
Metabolic Engineering	EBB 422	2	0
Laboratory V (Animal Biotechnology and Genetic Engineering)	CBB 423	0	4
Laboratory VI (Industrial microbial technology and Plant Biotechnology)	CBB 424	0	4
		Total	24
Semester IV			
Critical review and assessment of research paper and Industrial Visit	EBB 425		2
Preparation of project proposal	EBB 426		2
Dissertation	CBB 427		20
		Total	24

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