

UNDERGRADUATE PROGRAM

B.Sc. Microbiology



योग: कर्मसु कौशलम्

INDRASHIL UNIVERSITY

Department of Biosciences | School of Science

B.Sc. Microbiology (2026-2027)

Undergraduate Program (4 Years | 8 Semesters)

Course Structure for B.Sc. Microbiology

Semester I					
Sr. No.	Course Code	Course Category	Course Title	L-T-P	Credits
1	MB1 MT 101	MSD	Fundamental Biochemistry	3-0-0	3
2	MB1 MT 102	MSD	Cell Biology	3-0-0	3
3	MB1 MT 103	Minor	Analytical techniques in biological science	3-0-0	3
4	MDC T 104	Multidisciplinary	Biodiversity	3-0-0	3
5	MB1 MP 105	MSD	Laboratory 1: Fundamental Biochemistry, Cell Biology and	0-0-4	2
6	MB1 MP 106	Minor	Laboratory 2: Analytical techniques in biological science	0-0-2	1
7	MB1 MP 107	Multidisciplinary	Laboratory 3: Biodiversity	0-0-2	1
8	AEC 1 108	AEC	English Language-1	2-0-0	2
9	SEC 1 109	SEC	Computer technology and IT skill	2-0-0	2
10	IKS 1 110	IKS	Traditional Yoga and its Modernization for Health benefits	2-0-0	2
			Total credits	18-0-8	22

MDS- Major Discipline specific, AEC- Ability Enhancement Course, SEC - Skills Enhancement Course, IKS – Indian Knowledge System

Semester II					
Sr. No.	Course Code	Course Category	Course Title	L- T- P	Total Credits
1	MB1MT 201	MSD	General Microbiology	3-0-0	3
2	MB1MT 202	MSD	Microbial Physiology	3-0-0	3
3	MB1MT 203	Minor	Food microbiology	3-0-0	3
4	MDC1 T 204	Multidisciplinary	Fundamental Physics	3-0-0	3
5	MB1MP 205	Major	Laboratory-4 General Microbiology and Microbial Physiology	0-0-4	2
6	MB1MP 206	Minor	Laboratory 5: Food microbiology	0-0-2	1
7	MDC1P 207	Multidisciplinary	Laboratory-6 Fundamental Physics	0-0-2	1
8	AEC1 208	AEC	English Language-2	2-0-0	2
9	SEC1 209	SEC	Techniques in organic cultivation	2-0-0	2
10	VAC1 210	VAC	Forest and wildlife conservation	2-0-0	2
			Total Credits	18-0-8	22

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Semester III					
Sr. No.	Course Code	Course Category	Course Title	L- T- P	Total Credits
1	MB2 MT 301	MDS	Genetics	3-0-0	3
2	MB2 MT 302	MDS	Agricultural Microbiology	3-0-0	3
3	MB2 MT 303	MDS	Enzymology	3-0-0	3
4	MDC-2 T 304	MDC	Biotechnology and human welfare	3-0-0	3
5	MB2 MP 305	MDS	Laboratory-7 Genetics, Agricultural Microbiology and Enzymology	0-0-6	3
6	MB2 MP 306	MDS	Laboratory-8 Biotechnology and human welfare	0-0-2	1
7	AEC-2 307	AEC	Environment Studies & Disaster Management	2-0-0	2
8	SEC-2 308	SEC	Basics of forensic sciences	2-0-0	2
9	IKS-2 309	IKS	Bharatiya Swasthya Sampada	2-0-0	2
			Total Credits	14-0-8	22

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Semester IV					
Sr. No.	Course Code	Course Category	Course Title	L- T- P	Total Credits
1	MB2 MT 401	MDS	Molecular biology	3-0-0	3
2	MB2 MT 402	MDS	Immunology	3-0-0	3
3	MB2 MT 403	MDS	Environmental Microbiology	3-0-0	3
4	MB2 MT 404	Minor	Parasitology	3-0-0	3
5	MB2 MP 405	MDS	Laboratory-9 Molecular biology; Immunology and Environmental Microbiology	0-0-6	3
6	MB2 MP 406	Minor	Laboratory-10 Parasitology	0-0-2	1
7	AEC2 407	AEC	Personality Development	2-0-0	2
8	SEC2 408	SEC	Fermentation Technology	2-0-0	2
9	VAC2 409	VAC	Effective Waste Management	2-0-0	2
			Total Credits	18-0-8	22

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