

Syllabus w. e. f. Session 2021-22 onward
Gurukula Kangri (Deemed to be University), Haridwar

M.Sc. MICROBIOLOGY

M.Sc. I, II Year

S.N	Paper Code	Paper Title	Period Per Week			Credit	Evaluation Scheme			Subject Total	
			L	T	P		Sessional		ESE		
							CT	T A			Total
M.Sc. I Year											
Semester - I											
1	MMB-C101	Vedic and Modern Microbiology	3	1	-	4	20	10	30	70	100
2	MMB-C102	Virology	3	1	-	4	20	10	30	70	100
3	MMB-C103	Microbial Physiology and Biochemistry	3	1	-	4	20	10	30	70	100
4	MMB-C104	Environmental Microbiology	3	1	-	4	20	10	30	70	100
5	MMB-C151	Lab Course -I : Based on MMB-C101 & MMB-C102	-	-	-	8	20	10	30	70	100
6	MMB-C152	Lab Course -II : Based on MMB-C103 & MMB-C104	-	-	-	8	20	10	30	70	100
						24					600
Semester - II											
1	MMB-C201	Molecular Biology and Recombinant DNA Technology	3	1	-	4	20	10	30	70	100
2	MMB-C202	Microbial Genetics & Genomics	3	1	-	4	20	10	30	70	100
3	MMB-C203	Food Microbiology	3	1	-	4	20	10	30	70	100
4	MMB-C204	Industrial Microbiology	3	1	-	4	20	10	30	70	100
5	MMB-C251	Lab Course -III : Based on MMB-C 201 & MMB-C 202	-	-	-	8	20	10	30	70	100
6	MMB-C252	Lab Course -IV : Based on MMB-C 203 & MMB-C 204	-	-	-	8	20	10	30	70	100
						24					600
M.Sc. II Year										Total	1200
Semester - III											
1	MMB-C301	Immunology	3	1	-	4	20	10	30	70	100
2	MMB-C302	Medical Microbiology	3	1	-	4	20	10	30	70	100
3	MMB-E301	Elective I Mycology*	3	1	-	4	20	10	30	70	100
4	MMB-E302	Elective II Pharmaceutical Microbiology*	3	1	-	4	20	10	30	70	100
5	MMB-E303	Elective III Cellular Microbiology*	3	1	-	4	20	10	30	70	100
6	MMB-E304	Elective IV Agricultural Microbiology*	3	1	-	4					
7	MMB-E305	Elective V Microbial Ecology*	3	1	-	4					
8	MMB-C351	Lab Course -V: Based on MMB-C 301 & MMB - C302**	-	-	-	8	20	10	30	70	100
9	MMB-E352	Lab Course -VI: Based on any two elective papers**	-	-	-	8	20	10	30	70	100
						24					600
Semester - IV											
1	MMB-C460	Industrial Training/Project report Project Evaluation Seminar Viva-voce				20	-	-	-		200
2	MMB-C461	SWAYAM				4					100
						24					100
						94					500
Total										1100	
G Total										2300	

*- - Select any two electives out of the five electives (MMB-E301 to MMB-E305)
**--- Practical will be based on theory papers.

L = Lecture
CT = Cumulative Test

T = Tutorial
TA = Teacher Assessment

P = Practical
ESE = End Semester Examination

Ashok

J.P.

Rishi
17/4/21

Sharma

Chopra
17/4/21
Kash

Vishal

Falgun
17/4/21

Nambh