



STUDY AND EVALUATION SCHEME (2023-2024)

SUBJECT-WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS

Program: Bsc_Microbiology

Semester: 1st

S.No.	Course Code	Course Name	Maximum Marks Allotted							Credits Allotted			Total Credits
			Theory			Practical			Total Marks	L	T	P	
			End Sem. Exam	Mid Sem. Exam	Class Participation	End Sem. Exam	Progressive Evaluation	Internal Viva					
1	BSMB101[T]	Fundamentals of Biochemistry	60	20	20	0	0	0	100	3	0	0	3
2	BSMB102[T]	General Microbiology	60	20	20	0	0	0	100	3	0	0	3
3	BSMB103[T]	Cell Structure and Dynamics	60	20	20	0	0	0	100	3	0	0	3
4	BSMB101[P]	Fundamentals of Biochemistry	0	0	0	60	20	20	100	0	0	1	1
5	BSMB102[P]	General Microbiology	0	0	0	60	20	20	100	0	0	1	1
6	BSMB103[P]	Cell Structure and Dynamics	0	0	0	60	20	20	100	0	0	1	1
7		Elective5NCC*	60	20	20	0	0	0	100	2	0	0	2
8		Elective4.SECI[T]	60	20	20	0	0	0	100	2	0	0	2
9		Elective3.VACI[T]	60	20	20	0	0	0	100	2	0	0	2
10		Elective2. AEC I [T]	60	20	20	0	0	0	100	2	0	0	2
11		Elective1.GE I [T]	60	20	20	0	0	0	100	3	0	0	3
12		Elective1.GE I (P)	0	0	0	60	20	20	100	0	0	1	1
Total Credits													22

*Newly Added Courses

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STUDY AND EVALUATION SCHEME (2023-2024)

(SUBJECT-WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS)

Programme: Bsc_Microbiology(Bsc_Microbiology)

Semester: 2nd

S.No.	Course Code	Course Name	Maximum Marks Allotted						Credits Allotted			Total Credits	
			Theory			Practical			Total Marks	L	T		P
			End Sem. Exam	Mid Sem. Exam	Class Participation	End Sem. Exam	Prograssive Evaluation	Internal Viva					
1	BSMB 202(T)	Immunology	60	20	20	0	0	0	100	3	0	0	3
2	BSMB 203 (T)	Analytical Chemistry	60	20	20	0	0	0	100	3	0	0	3
3	BSMB201(T)	Molecular Biology –I	60	20	20	0	0	0	100	3	0	0	3
4	BSMB 201 (P)	Molecular biology I	0	0	0	60	20	20	100	0	0	1	1
5	BSMB 202 (P)	Immunology	0	0	0	60	20	20	100	0	0	1	1
6	BSMB 203 (P)	Analytical Chemistry	0	0	0	60	20	20	100	0	0	1	1
7		Elective4.SEC II (T)	60	20	20	0	0	0	100	2	0	0	2
8		Elective3.VAC II (T)	60	20	20	0	0	0	100	2	0	0	2
9		Elective2.AECII (T)	60	20	20	0	0	0	100	2	0	0	2
10		Elective1.GE II (T)	60	20	20	0	0	0	100	3	0	0	3
11		Elective1.GE II (P)	0	0	0	60	20	20	100	0	0	1	1
Total Credits													22

*Newly Added Courses

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STUDY AND EVALUATION SCHEME (2023-2024)

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Programme:Bsc_Microbiology(Bsc_Microbiology)

Semester:3rd

S.No.	Course Code	Course Name	Maximum Marks Allotted						Credits Allotted			Total Credits	
			Theory			Practical			Total Marks	L	T		P
			End Sem. Exam	Mid Sem. Exam	Class Participation	End Sem. Exam	Prograssive Evaluation	Internal Viva					
1	BSMB301(T)	Molecular Biology-II	60	20	20	0	0	0	100	3	0	0	3
2	BSMB302(T)	Plant Tissue Culture	60	20	20	0	0	0	100	3	0	0	3
3	BSMB303(T)	Genetics	60	20	20	0	0	0	100	3	0	0	3
4	BSMB 301 (P)	Molecular biology II	0	0	0	60	20	20	100	0	0	1	1
5	BSMB 302 (P)	Plant Tissue Culture	0	0	0	60	20	20	100	0	0	1	1
6	BSMB 303 (P)	Genetics	0	0	0	60	20	20	100	0	0	1	1
7		Elective4.SECIII (T)	60	20	20	0	0	0	100	2	0	0	2
8		Elective3.VACIII (T)	60	20	20	0	0	0	100	2	0	0	2
9		Elective2.AECIII (T)	60	20	20	0	0	0	100	2	0	0	2
10		Elective1.GEIII (T)	60	20	20	0	0	0	100	3	0	0	3
11		Elective1.GEIII (P)	0	0	0	60	20	20	100	0	0	1	1
Total Credits													22

*Newly Added Courses

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STUDY AND EVALUATION SCHEME (2023-2024)

(SUBJECT-WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS)

Programme: Bsc_Microbiology(Bsc_Microbiology)

Semester: 4th

S.No.	Course Code	Course Name	Maximum Marks Allotted							Credits Allotted			Total Credits
			Theory			Practical			Total Marks	L	T	P	
			End Sem. Exam	Mid Sem. Exam	Class Participation	End Sem. Exam	Progressive Evaluation	Internal Viva					
1	BSMB401(T)	Genetic Engineering, Tools and applications	60	20	20	0	0	0	100	3	0	0	3
2	BSMB402(T)	Bioprocess Engineering	60	20	20	0	0	0	100	3	0	0	3
3	BSMB403(T)	Enzymology	60	20	20	0	0	0	100	3	0	0	3
4	BSMB 401 (P)	Genetic Engineering, Tools and applications	0	0	0	60	20	20	100	0	0	1	1
5	BSMB 402 (P)	Bioprocess Engineering	0	0	0	60	20	20	100	0	0	1	1
6	BSMB 403 (P)	Enzymology	0	0	0	60	20	20	100	0	0	1	1
7		Elective5NCC*/MOOC*	60	20	20	0	0	0	100	2	0	0	2
8		Elective4.	60	20	20	0	0	0	100	2	0	0	2
9		Elective3.VACIV (T)	60	20	20	0	0	0	100	2	0	0	2
10		Elective2. AECIV (T)	60	20	20	0	0	0	100	2	0	0	2
11		Elective1.GEIV (T)	60	20	20	0	0	0	100	3	0	0	3
12		Elective1.GE IV (P)	0	0	0	60	20	20	100	0	0	1	1
Total Credits													22

*Newly Added Courses

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(SUBJECT-WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS)

Programme:Bsc_Microbiology(Bsc_Microbiology)

Semester:5th

S.No.	Course Code	Course Name	Maximum Marks Allotted						Credits Allotted			Total Credits	
			Theory			Practical			Total Marks	L	T		P
			End Sem. Exam	Mid Sem. Exam	Class Participation	End Sem. Exam	Prograssive Evaluation	Internal Viva					
1	BSMB 502 (T)	Cellular Metabolism	60	20	20	0	0	0	100	3	0	0	3
2	BSMB 503 (T)	Genomics & Proteomics	60	20	20	0	0	0	100	3	0	0	3
3	BSMB501 (T)	Bioinformatics	60	20	20	0	0	0	100	3	0	0	3
4	BSMB 501 (P)	Bioinformatics	0	0	0	60	20	20	100	0	0	1	1
5	BSMB 502 (P)	Cellular Metabolism	0	0	0	60	20	20	100	0	0	1	1
6	BSMB 503 (P)	Genomics & Proteomics	0	0	0	60	20	20	100	0	0	1	1
7	IAPC I	Industrial Training	0	0	0	200	0	0	200	0	0	6	6
8		Elective2.SEC V (T)	60	20	20	0	0	0	100	2	0	0	2
9		Elective2.SEC V (P)	0	0	0	60	20	20	100	0	0	1	1
10		Elective1.DSE I (T)	60	20	20	0	0	0	100	2	0	0	2
11		Elective1.DSE I (P)	0	0	0	60	20	20	100	0	0	1	1
											Total Credits	24	

*Newly Added Courses

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Programme: Bsc_Microbiology(Bsc_Microbiology)

Semester: 6th

S.No.	Course Code	Course Name	Maximum Marks Allotted						Credits Allotted			Total Credits	
			Theory			Practical			Total Marks	L	T		P
			End Sem. Exam	Mid Sem. Exam	Class Participation	End Sem. Exam	Prograssive Evaluation	Internal Viva					
1	BSMB 601(T)	Bacteriology, mycology and Virology	60	20	20	0	0	0	100	3	0	0	3
2	BSMB 602 (T)	Food and Dairy Microbiology	60	20	20	0	0	0	100	3	0	0	3
3	BSMB 601(P)	Bacteriology, mycology and Virology	0	0	0	60	20	20	100	0	0	1	1
4	BSMB 602 (P)	Food and Dairy Microbiology	0	0	0	60	20	20	100	0	0	1	1
5	IAPC II	Industrial Training	0	0	0	200	0	0	200	0	0	6	6
6		Elective4.SEC VI (T)	60	20	20	0	0	0	100	3	0	0	3
7		Elective3.DSE IV (T)	60	20	20	0	0	0	100	3	0	0	3
8		Elective2.	60	20	20	0	0	0	100	3	0	0	3
9		Elective1.DSE II (T)	60	20	20	0	0	0	100	3	0	0	3
Total Credits													26

*Newly Added Courses

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STUDY AND EVALUATION SCHEME (2023-2024)

(SUBJECT-WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS)

Programme: Bsc_Microbiology(Bsc_Microbiology)

Semester: 7th

S.No.	Course Code	Course Name	Maximum Marks Allotted						Credits Allotted			Total Credits	
			Theory			Practical			Total Marks	L	T		P
			End Sem. Exam	Mid Sem. Exam	Class Participation	End Sem. Exam	Prograssive Evaluation	Internal Viva					
1	BSMB 701 (T)	Microbial Genetics	60	20	20	0	0	0	100	3	0	0	3
2	BSMB 702 (T)	Research Methodology	60	20	20	0	0	0	100	3	0	0	3
3	BSMB 701 (P)	Microbial Genetics	0	0	0	60	20	20	100	0	0	1	1
4	BSMB 703 (P)	Dissertation I	0	0	0	400	0	0	400	0	0	6	6
5	FP/In I	Field Project/Internship	0	0	0	300	0	0	300	0	0	6	6
6		Elective2.DSE VI (T)	60	20	20	0	0	0	100	2	0	0	2
7		Elective2.DSE VI (P)	0	0	0	60	20	20	100	0	0	1	1
8		Elective1.DSE V (T)	60	20	20	0	0	0	100	3	0	0	3
Total Credits											25		

*Newly Added Courses

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(SUBJECT-WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS)

Programme:Bsc_Microbiology(Bsc_Microbiology)

Semester:8th

S.No.	Course Code	Course Name	Maximum Marks Allotted						Credits Allotted			Total Credits	
			Theory			Practical			Total Marks	L	T		P
			End Sem. Exam	Mid Sem. Exam	Class Participation	End Sem. Exam	Prograssive Evaluation	Internal Viva					
1	BSMB 801 (T)	Microbial Quality Control in Food and Pharmaceutical Industries	60	20	20	0	0	0	100	3	0	0	3
2	SEC VII (T)	Human Health and Vaccinology	60	20	20	0	0	0	100	2	0	0	2
3	BSMB 802 (P)	Dissertation II	0	0	0	400	0	0	400	0	0	6	6
4	FP/In II	Field Project/Internship	0	0	0	300	0	0	300	0	0	6	6
5	SEC VII (P)	Human Health and Vaccinology	0	0	0	60	20	20	100	0	0	1	1
6		Elective1.DSE VII (T)	60	20	20	0	0	0	100	2	0	0	2
7		Elective1.DSE VII (P)	0	0	0	60	20	20	100	0	0	1	1
Total Credits											21		

*Newly Added Courses

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List of Elective Subjects

Course Code	Course Name	Subject Type	Semester
3T GE I (P)	Animal Diversity	Elective1.GE I (P)	1st
3T GE I [T]	Animal Diversity	Elective1.GE I [T]	1st
CI [T]	English	Elective2. AEC I [T]	1st
CI[T]	Environmental Science	Elective3.VACI[T]	1st
CI[T]	Bioinstrumentation	Elective4.SECI[T]	1st
3T104 [T]	NCC*	Elective5NCC*	1st
MBGE II (P)	General anatomy & comparative anatomy of Vertebrates	Elective1.GE II (P)	2nd
MBGE II (T)	General anatomy & comparative anatomy of Vertebrates	Elective1.GE II (T)	2nd
MBGE II (T)	Plant Ecology	Elective1GE II (T)	2nd
MBGE II (P)	Plant Ecology	Elective1GE II B (P)	2nd
MB AECII (T)	Hindi I	Elective2.AECII (T)	2nd
MB VAC II (T)	India in 21st Century	Elective3.VAC II (T)	2nd
MB SEC II (T)	Basics of Forensic Science	Elective4.SEC II (T)	2nd
MB 204 (P)	NCC*	Elective5	2nd
MB 204 (T)	NCC*	Elective5	2nd
MBGEIII (P)	Inorganic Chmeistry	Elective1.GEIII (P)	3rd
MBGEIII (T)	Inorganic Chmeistry	Elective1.GEIII (T)	3rd
3T GE III (P)	Organic Chemistry	Elective1GE III (P)	3rd
3T GE III (T)	Organic Chemistry	Elective1GE III (T)	3rd
MB AECIII (T)	English II	Elective2.AECIII (T)	3rd
MB VACIII (T)	Disaster Management	Elective3.VACIII (T)	3rd
MB SECIII (T)	Biostatistics and Computer Applications	Elective4.SECIII (T)	3rd
MB 304 (P)	NCC*	Elective5	3rd
MB 304 (T)	NCC*	Elective5	3rd
MB GE IV (P)	Animal Physiology	Elective1.GE IV (P)	4th
MB GEIV (T)	Animal Physiology	Elective1.GEIV (T)	4th
MB GE IV (P)	Plant Physiology	Elective1GE IV (P)	4th
MB GE IV (T)	Plant Physiology	Elective1GE IV (T)	4th
MB AECIV	HINDI II	Elective2. AECIV (T)	4th
MBVACIV (T)	Environmental Issues and Sustainable Development	Elective3.VACIV (T)	4th
MBSECIV (T)	Bioethics and Biosafety	Elective4.	4th
MB 404 (T)	NCC*/MOOC*	Elective5NCC*/MOOC*	4th
E I (P)	Environmental Biotechnology	Elective1.DSE I (P)	5th
E I (T)	Environmental Biotechnology	Elective1.DSE I (T)	5th
E I (P)	Environemntal Microbiology	Elective1DSE I (P)	5th
E I (T)	Environemntal Microbiology	Elective1DSE I (T)	5th
CV (P)	Organic Farming	Elective2.SEC V (P)	5th
CV (T)	Organic Farming	Elective2.SEC V (T)	5th
CV (P)	Marine Microbiology	Elective2SEC V (P)	5th
CV (T)	Marine Microbiology	Elective2SEC V (T)	5th
E II (T)	Agriculture Biotechnology and Intellectual property rights	Elective1.DSE II (T)	6th
E II (T)	Agriclutlure Microbiology	Elective1DSE II (T)	6th
E III (T)	Waste Management	Elective2.	6th
E III (T)	Organic Mechanisms in Biology	Elective2DSE III (T)	6th
E IV (T)	Frontiers in Biotechnology & Microbiology	Elective3.DSE IV (T)	6th
E IV (T)	Molecular Diagnostics	Elective3DSE IV (T)	6th

SEC VI (T)	Introduction to Good Laboratory practices	Elective4.SEC VI (T)	6th
SEC VI (T)	Entrepreneurship development	Elective4SEC VI (T)	6th
DSE V (T)	Medical Biotechnology	Elective1.DSE V (T)	7th
DSE V (T)	Medical Microbiology	Elective1DSE V (T)	7th
DSE VI (P)	Industrial Biotechnology	Elective2.DSE VI (P)	7th
DSE VI (T)	Industrial Biotechnology	Elective2.DSE VI (T)	7th
DSE VI (P)	Industrial Microbiology	Elective2DSE VI (P)	7th
DSE VI (T)	Industrial Microbiology	Elective2DSE VI (T)	7th
DSE VII (P)	Food and Dairy Microbiology	Elective1.DSE VII (P)	8th
DSE VII (T)	Food and Dairy Microbiology	Elective1.DSE VII (T)	8th
DSE VII (P)	Pharmaceutical Biotechnology	Elective1DSE VII (P)	8th
DSE VII (T)	Pharmaceutical Biotechnology	Elective1DSE VII (T)	8th