

2023 Scheme
Scheme of Examination
BSc (Microbiology) (NEP)
Semester I

S. No.	Category	Subject Code	Subject Name	Maximum Marks Allotted						Hours/Week			Credits	Total Marks
				Theory			Practical			L	T	P		
				End Sem Test (EST)	Mid Sem Test (MST)	Continuou s Evaluation	End Sem Test	Mid Sem Test	Continuous Evaluation					
1	Major Core (Theory)	S1-MBIO1T	General Microbiology & Cell Structure	60	30	10	-	-	-	4	0	0	4	100
2	Major Core (Practical)	S1-MBIO1P	Study of Microorganisms	-	-	-	60	-	40	0	0	4	2	100
3	Minor Core (Theory)	S1INMB1T	Tools and Techniques in Industrial Microbiology	60	30	10	-	-	-	4	0	0	4	100
4	Minor Core (Practical)	S1INMB1P	Techniques in Industrial Microbiology	-	-	-	60	-	40	0	0	4	2	100
5	Generic elective	S1-COAP1G	Computer Fundamentals	60	30	10	-	-	-	4	0	0	4	100
6	Ability Enhancement Course	X1-FCEA1T	□□□□ और □□□□□□□□	30	15	5	-	-	-	2	0	0	2	50
7	Ability Enhancement Course	X1-FCHB1T	English language and Indian culture	30	15	5	-	-	-	2	0	0	2	50
8	Additional Courses	S1-BCHE1P	Application of techniques in Biochemical Analysis	-	-	-	60	-	40	0	0	4	2	100
Total										16	0	12	22	700

Prepared & Submitted By
(Course Coordinator)

Verified By
(Head of Department)

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(Dean Academics)

Forwarded By
(Dean IQAC)

Approved By
(Vice-Chancellor)

2023 Scheme
Scheme of Examination
Department of Life Science
BSc (Microbiology) (NEP)
Semester II

S. No.	Category	Subject Code	Subject Name	Maximum Marks Allotted						Hours/Week			Credits	Total Marks
				Theory			Practical			L	T	P		
				End Sem Test (EST)	Mid Sem Test (MST)	Continuous Evaluation	End Sem Test	Mid Sem Test	Continuous Evaluation					
1	Major Core (Theory)	S1-MBIO2T	Microbial Techniques	60	30	10	-	-	-	4	0	0	4	100
2	Major Core (Practical)	S1-MBIO2P	Microbial tools and Techniques	-	-	-	60	-	40	0	0	4	2	100
3	Minor Core (Theory)	S1INMB2T	Fundamentals of Industrial Microbiology	60	30	10	-	-	-	4	0	0	4	100
4	Minor Core (Practical)	S1INMB2P	Basic Exercises in Industrial Microbiology	-	-	-	60	-	40	0	0	4	2	100
5	Generic elective	S1-PHCH1G	Basic Concepts of Pharmaceutical Chemistry	60	30	10	-	-	-	4	0	0	4	100
6	Ability Enhancement Course	X1-FCAC1T	Environmental Education	30	15	5	-	-	-	2	0	0	2	50
7	Ability Enhancement Course	A1-YOSC1F	Yoga and Meditation	30	15	5	-	-	-	2	0	0	2	50
8	Additional Courses	S1-BCHE2P	Biomolecular Analysis	-	-	-	60	-	40	0	0	4	2	100
Total									16	0	8	20	600	

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**2023 Scheme
Scheme of Examination
BSc (Microbiology) (NEP)
Semester III**

S. No.	Category	Subject Code	Subject Name	Maximum Marks Allotted						Hours/Week			Credits	Total Marks
				Theory			Practical			L	T	P		
				End Sem Test (EST)	Mid Sem Test (MST)	Continuous Evaluation	End Sem Test	Mid Sem Test	Continuous Evaluation					
1	Major Core (Theory)	S2-MBIO1T	Microbial physiology and metabolism	60	30	10	-	-	-	4	0	0	4	100
2	Major Core (Practical)	S2-MBIO1P	Microbial biochemistry and metabolism	-	-	-	60	-	40	0	0	4	2	100
3	Minor Core (Theory)	S2INMB1T	Application of Industrial Microbiology	60	30	10	-	-	-	4	0	0	4	100
4	Minor Core (Practical)	S2INMB1P	Exercises in Application of Industrial Microbiology	-	-	-	60	-	40	0	0	4	2	100
5	Generic elective	S2-ZOOL1G	Nutrition and Health	60	30	10	-	-	-	4	0	0	4	100
6	Skill Enhancement (Theory)	V1-CLN-NUTT	Nutrition and Dietetics	60	30	10	-	-	-	4	0	0	4	100
7	Additional Courses	S1-BINF2P	Practicals in General Introduction to Bioinformatics	-	-	-	60	-	40	0	0	4	2	100
Total										16	0	12	22	700

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2023 Scheme
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BSc (Microbiology) (NEP)
Semester IV

S. No.	Category	Subject Code	Subject Name	Maximum Marks Allotted						Hours/Week			Credits	Total Marks
				Theory			Practical			L	T	P		
				End Sem Test (EST)	Mid Sem Test (MST)	Continuous Evaluation	End Sem Test	Mid Sem Test	Continuous Evaluation					
1	Major Core (Theory)	S2-MBIO2T	Microbial diversity and growth	60	30	10	-	-	-	4	-	-	4	100
2	Major Core (Practical)	S2-MBIO2P	Isolation and growth study of microorganisms	-	-	-	60	-	40	-	-	4	2	100
3	Minor Core (Theory)	S2INMB2T	Physiology and Biochemistry of Microbes	60	30	10	-	-	-	4	-	-	4	100
4	Minor Core (Practical)	S2INMB2P	Exercises in Biochemistry and Physiology of Microbes	-	-	-	60	-	40	-	-	4	2	100
5	Generic elective	H2-HSCA1G	Food Product development	60	30	10	-	-	-	4	-	-	4	100
6	Skill Enhancement (Theory)	V1-FOO-FPPT	Food preservation and Processing	60	30	10	-	-	-	4	-	-	4	100
7	Additional Courses	S2-BCHE1P	Clinical Investigation	-	-	-	60	-	40	-	-	4	2	100
Total										16	0	12	22	700

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MAKING FUTURE READY!

Faculty of Life Sciences
Mandsaur University, Mandsaur

**2023 Scheme
Scheme of Examination
BSc (Microbiology) (NEP)
Semester V**

S. No.	Category	Subject Code	Subject Name	Maximum Marks Allotted						Hours/Week			Credits	Total Marks
				Theory			Practical			L	T	P		
				End Sem Test (EST)	Mid Sem Test (MST)	Continuous Evaluation	End Sem Test	Mid Sem Test	Continuous Evaluation					
1	Major Core (Theory)	S3-MBIO 1D	Microbial Genetics and Molecular Biology	60	30	10	-	-	-	4	0	0	4	100
2	Major Core (Practical)	S3-MBIO 1Q	Microbial Genetics and Molecular Biology Lab	-	-	-	60	-	40	0	0	4	2	100
3	Skill Enhancement Course (SEC)	V2-ZOO-MEDT	Clinical Pathology and Medical Diagnostics	60	30	10	-	-	-	2	0	0	2	100
4	Skill Enhancement Course (SEC)	V2-ZOO-MEDP	Clinical Pathology and Medical Diagnostics Lab	-	-	-	60	-	40	0	0	4	2	100
5	Discipline Specific Elective (DSE) Theory	S3-MBIO 3D	Industrial Microbiology	60	30	10	-	-	-	4	0	0	4	100
6	Field Project/ Internship/ Apprenticeship	S3-MBIO1P	Field Project/ Internship/ Apprenticeship	-	-	-	25	-	75	0	0	0	6	100
7	Additional Courses	S3-BTEC1Q	Industrial Biotechnology Lab	-	-	-	60	-	40	0	0	4	2	100
Total									10	0	12	22	700	

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**2023 Scheme
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Semester VI**

S. No.	Category	Subject Code	Subject Name	Maximum Marks Allotted						Hours/Week			Credits	Total Marks
				Theory			Practical			L	T	P		
				End Sem Test (EST)	Mid Sem Test (MST)	Continuous Evaluation	End Sem Test	Mid Sem Test	Continuous Evaluation					
1	Major Core (Theory)	S3-MBIO 2D	Food Microbiology	60	30	10	-	-	-	4	0	0	4	100
2	Major Core (Practical)	S3-MBIO 2Q	Techniques of Food Microbiology Lab	-	-	-	60	-	40	0	0	4	2	100
3	Discipline Specific Elective (DSE) Theory	S3-MBIO 4D	Microbes as Pathogen	60	30	10	-	-	-	4	0	0	4	100
4	Discipline Specific Elective (DSE) Theory	S3-MBIO 2T	Environmental Microbiology	60	30	10	-	-	-	4	0	0	4	100
5	Field Project/ Internship/ Apprenticeship	S3-MBIO2P	Field Project/ Internship/ Apprenticeship	-	-	-	25	-	75	0	0	0	6	100
6	Additional Courses	S3-MBIO 2P	Environmental Microbiology (Practical)	-	-	-	60	-	40	0	0	4	2	100
Total										12	0	8	22	600

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