

2023 Scheme
Scheme of Examination
BSc (Biotechnology) (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)	Continuous Evaluation	End Sem Test	Mid Sem Test	Continuous Evaluation					
1	Major Core (Theory)	TH-1-SI-BTE C1T	Cell Biology and Biochemistry	60	30	10	-	-	-	4	0	0	4	100
2	Major Core (Practical)	PR-1SI-BTE C1P	Lab work for Cell Biology and Biochemistry	-	-	-	60	-	40	0	0	4	2	100
3	Minor Core (Theory)	S1-BCHE1T	Biochemical Techniques	60	30	10	-	-	-	4	0	0	4	100
4	Minor Core (Practical)	S1-BCHE1P	Application of techniques in Biochemical Analysis	-	-	-	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-MBIO1P	Study of Microorganisms	-	-	-	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)



Faculty of Life Sciences
Mandsaur University, Mandsaur

2023 Scheme
Scheme of Examination

Department of Life Science

BSc (Biotechnology) (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)	TH-2-SI-BTEC 2T	Microbiology and Immunology	60	30	10	-	-	-	4	0	0	4	100
2	Major Core (Practical)	PR-2SI-BTEC 2P	Lab on Microbiology and Immunology	-	-	-	60	-	40	0	0	4	2	100
3	Minor Core (Theory)	S1-BCHE2T	Chemistry of Biomolecules	60	30	10	-	-	-	4	0	0	4	100
4	Minor Core (Practical)	S1-BCHE2P	Biomolecular Analysis	-	-	-	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-MBIO2P	Microbial tools and Techniques	-	-	-	60	-	40	0	0	4	2	100
Total										16	0	12	22	700

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**MANDSAUR
UNIVERSITY**
MAKING FUTURE READY!

Faculty of Life Sciences
Mandsaur University, Mandsaur

2023 Scheme
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BSc (Biotechnology) (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-BTEC1T	Basic Molecular Biology	60	30	10	-	-	-	4	0	0	4	100
2	Major Core (Practical)	S2-BTEC1P	Lab work for Basic Molecular Biology	-	-	-	60	-	40	0	0	4	2	100
3	Minor Core (Theory)	S1-BINF2T	General Introduction to Bioinformatics	60	30	10	-	-	-	4	0	0	4	100
4	Minor Core (Practical)	S1-BINF2P	Practicals in General Introduction to Bioinformatics	-	-	-	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	S2-MBIO1P	Microbial biochemistry and metabolism	-	-	-	60	-	40	0	0	4	2	100
Total										16	0	12	22	700

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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-BTE C2 T	Recombinant DNA Technology	60	30	10	-	-	-	4	-	-	4	100
2	Major Core (Practical)	S2-BTEC2P	Lab work for Recombinant DNA Technology	-	-	-	60	-	40	-	-	4	2	100
3	Minor Core (Theory)	S2-BCHE1T	Clinical Biochemistry	60	30	10	-	-	-	4	-	-	4	100
4	Minor Core (Practical)	S2-BCHE1P	Clinical Investigation	-	-	-	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	S2INMB2P	Exercises in Biochemistry and Physiology of Microbes	-	-	-	60	-	40	-	-	4	2	100
Total									16	0	12	22	700	

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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-BTEC1D	Industrial Biotechnology	60	30	10	-	-	-	4	0	0	4	100
2	Major Core (Practical)	S3-BTEC1Q	Industrial Biotechnology Lab	-	-	-	60	-	40	0	0	4	2	100
3	Skill Enhancement Course (Theory)	V2-ZOO-MEDT	Clinical Pathology and Medical Diagnostics	60	30	10	-	-	-	2	0	0	2	100
4	Skill Enhancement Course (Practical)	V2-ZOO-MEDP	Clinical Pathology and Medical Diagnostics Lab	-	-	-	60	-	40	0	0	4	2	100
5	Discipline Specific Elective (Theory)	S3-BTE C3 D	Environmental Biotechnology	60	30	10	-	-	-	4	0	0	4	100
6	Field Project/ Internship/ Apprenticeship	S3-BTEC1P	Field Project/ Internship/ Apprenticeship	-	-	-	25	-	75	0	0	0	6	100
7	Additional Courses	S3-MBIO 1Q	Microbial Genetics and Molecular Biology 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-BTE C2D	Agriculture Biotechnology	60	30	10	-	-	-	4	0	0	4	100
2	Major Core (Practical)	S3-BTE C2Q	Agriculture Biotechnology Lab	-	-	-	60	-	40	0	0	4	2	100
3	Discipline Specific Elective (DSE) Theory	S3-BTE C4D	Bioinformatics	60	30	10	-	-	-	4	0	0	4	100
4	Discipline Specific Elective (DSE) Theory	S3-BTE C2T	Applied Biotechnology	60	30	10	-	-	-	4	0	0	4	100
5	Field Project/ Internship/ Apprenticeship	S3-BTEC2P	Field Project/ Internship/ Apprenticeship	-	-	-	25	-	75	0	0	0	6	100
6	Additional Courses	S3-BTE C4Q	Bioinformatics (Practical)	-	-	-	60	-	40	0	0	4	2	100
Total										12	0	8	22	600

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