



# Mandsaur University

## Scheme of Examination

### Department of Life Science

#### Bachelor of Science (HONS.) (Microbiology)

#### Semester I

S. No.	Subject Code	Subject Name	Maximum Marks Allotted						Hours/Week			Credits	Total M
			Theory			Practical			L	T	P		
			End Sem Test (EST)	Mid Sem Test (MST)	Continuous Evaluation	End sem	Mid Sem	Continuous Evaluation					
1	MIC010	Introduction to Microbiology & Microbial Diversity	60	30	10	50	-	-	3	1	4	6	15
2	MIC020	Bacteriology	60	30	10	50	-	-	3	1	4	6	15
3	MIC030	Environmental Studies	60	30	10	-	-	-	3	1	-	4	10
4	MIC041	Introduction & Scope of Microbiology	60	30	10	50	-	-	3	1	4	6	15
5	MIC170	Seminar I	-	-	-	-	-	50	2	-	-	2	50
-	-	-	-	-	-	-	-	-	-	-	-	-	0
<b>Total</b>									<b>14</b>	<b>4</b>	<b>12</b>	<b>24</b>	<b>60</b>

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# Mandsaur University

## Scheme of Examination

### Department of Life Science

#### Bachelor of Science (Hons.) Microbiology

#### Semester II

S. No.	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	Mid Sem	Continuous Evaluation					
1	MIC050	Biochemistry	60	30	10	50	-	-	3	1	4	6	150
2	MIC060	Virology	60	30	10	50	-	-	3	1	4	6	150
3	MIC161 OR MIC163	English OR MIL Communication	60	30	10	-	-	-	3	1	-	4	100
4	MIC071 OR MIC072	Microbial Metabolism OR Industrial & Food Microbiology	60	30	10	50	-	-	3	1	4	6	150
5	MIC180	Seminar II	-	-	-	-	-	50	2	-	-	2	50
<b>Total</b>									<b>14</b>	<b>4</b>	<b>12</b>	<b>24</b>	<b>600</b>

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Scheme of Examination  
**Department of Life Science**  
 Bachelor of Science (Hons.) Microbiology  
 Semester III

S. No.	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	Mid Sem	Continuous Evaluation					
1	MIC250	Microbial Physiology and Metabolism	60	30	10	50	-	-	3	-	4	5	150
2	MIC260	Cell & Molecular Biology	60	30	10	50	-	-	3	-	4	5	150
3	MIC270	Chemistry I	60	30	10	50	-	-	4	-	4	6	150
4	MIC290	Elective-I	60	30	10	-	-	-	4	-	-	4	100
5	MIC280	Elective-II	30	10	10	-	-	-	2	-	-	2	50
<b>Total</b>									<b>16</b>	<b>0</b>	<b>12</b>	<b>22</b>	<b>600</b>

Elective-I	
MIC291	Microbes in Environment
MIC292	Medical Microbiology & Immunology
Elective-II	
MIC281	Microbial Quality Control in food & Pharmaceutical Industries
MIC282	Microbial Diagnosis in Health Clinics
MIC283	Biofertilizers & Biopesticides

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Scheme of Examination  
**Department of Life Science**  
 Bachelor of Science (Hons.) Microbiology  
 Semester IV

S. No.	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	Mid Sem	Continuous Evaluation					
1	MIC300	Microbial Genetics	60	30	10	50	-	-	3	-	4	5	150
2	MIC310	Microbes in Sustainable Agriculture and Development	60	30	10	50	-	-	3	-	4	5	150
3	MIC320	Chemistry II	60	30	10	50	-	-	4	-	4	6	150
4	MIC330	Elective-III	30	10	10	-	-	-	2	-	-	2	50
5	MIC340	Elective-IV	60	30	10	-	-	-	4	-	-	4	100
<b>Total</b>									<b>16</b>	<b>0</b>	<b>12</b>	<b>22</b>	<b>600</b>

Elective-III	
MIC331	Food Fermentation Techniques
MIC332	Management of Human Microbial Disease
MIC333	Microbiological Analysis of Air & Water
Elective-IV	
MIC341	Genetic Engg. & Biotechnology
MIC342	Instrumentation and Biotechniques

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Scheme of Examination  
**Department of Life Sciences**  
 Bachelor of Science (Hons.) Microbiology  
 Semester V

S. No.	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	Mid Sem	Continuous Evaluation					
1	MIC350	Microbial Biotechnology	60	30	10	50	-	-	3	-	4	5	150
2	MIC360	Recombinant DNA Technology	60	30	10	50	-	-	4	-	4	6	150
3	MIC370	Industrial Chemistry	60	30	10	50	-	-	4	-	4	6	150
4	MIC380	Elective-V	60	30	10	-	-	-	3	-	-	3	100
5	MIC390	Project Work & Seminar	-	-	-	50	-	-	-	-	4	2	50
<b>Total</b>									<b>14</b>	<b>0</b>	<b>16</b>	<b>22</b>	<b>600</b>

<b>Elective-V</b>	
MIC381	Biostatistics
MIC382	Advances in Microbiology

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**Department of Life Sciences**  
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**Semester VI**

S. No.	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	Mid Sem	Continuous Evaluation					
1	MIC400	Medical Microbiology	60	30	10	50	-	-	4	-	4	6	150
2	MIC410	Immunology	60	30	10	50	-	-	3	-	4	5	150
3	MIC420	Plant Pathology	60	30	10	50	-	-	4	-	4	6	150
4	MIC430	Elective-VI	60	30	10	-	-	-	3	-	-	3	100
5	MIC440	Project Work & Viva Voce	-	-	-	50	-	-	-	-	4	2	50
									<b>14</b>	<b>0</b>	<b>16</b>	<b>22</b>	<b>600</b>

Elective-VI	
MIC431	Bioinformatics
MIC432	Biosafety and Intellectual Property Rights