

**Department of Microbiology**

**Departmental Teaching and Evaluation scheme**

**Three/Four- Years UG Programme**

**Department/Subject Specific Core or Major (DSC)**

**(as per NEP-2020 Guidelines)**

**First Year Semester-I&II**

Sr. No.	Course Abbr.	Course code	Course Name	Teaching Scheme Hours/week		Examination Scheme and Marks				Course Credits
				TH	PR	ESE	CIE	PR	Marks	
<b>Semester-I</b>										
1	DSC-I	DSC03MIC11	Introduction to microbiology	2	-	40	10	-	50	2
2	DSC-II	DSC03 MIC 12	Bacteriology	2	-	40	10	-	50	2
3	MIN-I	MIN03 MIC 11	Introduction to microbiology	2	-	40	10	-	50	2
4	MIN-II	MIN03 MIC 12	Bacteriology	2	-	40	10	-	50	2
5	OEC-I	OEC03 MIC 11	General Microbiology	2	-	40	10	-	50	2
6	OEC-II	OEC03 MIC 12	Techniques in Microbiology	2	-	40	10	-	50	2
7	IKS-I	IKS03GEC11	Indian Knowledge System	2	-	25	-	-	25	2
8	DSC-PR-I	DSC03MIC19	DSC Microbiology Lab-1	-	4	-	-	25	25	2
9	MIN-PR-I	MIN03MIC19	MIN Microbiology Lab-1	-	4	-	-	25	25	2
10	OEC-PR-I	OEC03MIC19	OEC Microbiology Lab-1	-	4	-	-	25	25	2
<b>Semester –I Total</b>				<b>14</b>	<b>12</b>	<b>265</b>	<b>60</b>	<b>75</b>	<b>400</b>	<b>20</b>
<b>Semester-II</b>										
1	DSC-III	DSC03 MIC 21	Basic Biochemistry-I	2	-	40	10	-	50	2
2	DSC-IV	DSC03 MIC 22	Microbial nutrition and techniques	2	-	40	10	-	50	2
3	MIN-III	MIN03 MIC 21	Basic Biochemistry-I	2	-	40	10	-	50	2
4	MIN-IV	MIN03 MIC 22	Microbial nutrition and techniques	2	-	40	10	-	50	2
5	OEC-III	OEL03 MIC 21	Microbial Nutrition and Control	2	-	40	10	-	50	2
6	OEC-IV	OEL03 MIC 22	Water and air microbiology	2	-	40	10	-	50	2
7	VSC-PR-I	VSC03MIC29	Dairy Microbiology	-	4	-	-	25	25	2
8	DSC-PR-II	DSC03MIC29	DSC Microbiology Lab-2	-	4	-	-	25	25	2
9	MIN-PR-II	MIN03MIC29	MIN Microbiology Lab-2	-	4	-	-	25	25	2
10	OEC-PR-II	OEC03MIC29	OEC Microbiology Lab-2	-	4	-	-	25	25	2
<b>Semester –II Total</b>				<b>12</b>	<b>16</b>	<b>240</b>	<b>60</b>	<b>100</b>	<b>400</b>	<b>20</b>

# Departmental Teaching and Evaluation scheme

## Second Year Semester-III&IV

Sr. No.	Course Abbr.	Course code	Course Name	Teaching Scheme Hours/week		Examination Scheme and Marks				Course Credits
				TH	PR	ESE	CIE	PR	Marks	
<b>Semester-III</b>										
1	DSC-V	DSC03MIC31	Medical Microbiology -I	2	-	40	10	-	50	2
2	DSC-VI	DSC03 MIC 32	Microbial Genetics -I	2	-	40	10	-	50	2
3	MIN-V	MIN03 MIC 31	Medical Microbiology -I	2	-	40	10	-	50	2
4	MIN-VI	MIN03 MIC 32	Immunology	2	-	40	10	-	50	2
5	VSC-PR-II	VSC03 MIC 39	Analytical Microbiology	-	4	-	-	25	25	2
6	DSC-PR-III	DSC03 MIC 39	DSC-Microbiology Lab-3	-	8	-	-	50	50	4
7	MIN-PR-III	MIN03 MIC 39	MIN- Microbiology Lab-3	-	4	-	-	25	25	2
<b>Semester –III Total</b>				<b>8</b>	<b>16</b>	<b>160</b>	<b>40</b>	<b>100</b>	<b>300</b>	<b>16</b>
<b>Semester-IV</b>										
1	DSC-VII	DSC03MIC41	Applied Microbiology -II	2	-	40	10	-	50	2
2	DSC-VIII	DSC03 MIC 42	Microbial Physiology	2	-	40	10	-	50	2
3	MIN-VI	MIN03 MIC 41	Basic Biochemistry -II	2	-	40	10	-	50	2
4	MIN-VIII	MIN03 MIC 42	Medical Microbiology-II	2	-	40	10	-	50	2
5	VSC-PR-III	VSC03 MIC 49	Microbial analysis of air and water	-	4	-	-	25	25	2
6	DSC-PR-IV	DSC03 MIC 49	DSC-Microbiology Lab-4	-	8	-	-	50	50	4
7	MIN-PR-IV	MIN03 MIC 49	MIN-Microbiology Lab-4	-	4	-	-	25	25	2
<b>Semester –IV Total</b>				<b>8</b>	<b>16</b>	<b>160</b>	<b>40</b>	<b>100</b>	<b>300</b>	<b>16</b>

# Departmental Teaching and Evaluation scheme

## Third Year Semester-V&VI

Sr. No.	Course Abbr.	Course code	Course Name	Teaching Scheme Hours/week		Examination Scheme and Marks				Course Credits
				TH	PR	ESE	CIE	PR	Marks	
<b>Semester-V</b>										
1	DSC-IX	DSC03MIC51	Immunology	2	-	40	10	-	50	2
2	DSC-X	DSC03 MIC 52	Virology	2	-	40	10	-	50	2
3	DSC-XI	DSC03 MIC 53	Food and Industrial Microbiology	2	-	40	10	-	50	2
4	DSC-XII	DSC03 MIC 54	Agricultural Microbiology	2	-	40	10	-	50	2
5	DSE-I	DSE03 MIC 51	Fermentation Technology-I	2	-	40	10	-	50	2
6	VSC-PR-IV	VSC03 MIC 59	Soil Microbiology	-	4	-	-	25	25	2
7	FP	FPR03 MIC 51	Field Project		4			50	50	2
8	DSC-PR-V	DSC03 MIC 59	DSC Microbiology Lab-5	-	16	-	-	100	100	8
<b>Semester –V Total</b>				<b>10</b>	<b>24</b>	<b>200</b>	<b>50</b>	<b>175</b>	<b>425</b>	<b>22</b>
<b>Semester-VI</b>										
1	DSC-XIII	DSC03 MIC 61	Microbial Genetics	2	-	40	10	-	50	2
2	DSC-XIV	DSC03 MIC 62	Microbial Biochemistry	2	-	40	10	-	50	2
3	DSC-XV	DSC03 MIC 63	Environmental Microbiology	2	-	40	10	-	50	2
4	DSC-XVI	DSC03 MIC 64	Medical Microbiology-II	2	-	40	10	-	50	2
5	DSE-II	DSE03 MIC 61	Fermentation Technology-II	2	-	40	10	-	50	2
6	VSC-PR-V	VSC03 MIC 69	Waste Water Management	-	4	-	-	25	25	2
7	OJT	OJT03 MIC 61	On Job Training		4			50	50	2
8	DSC-PR-VI	DSC03 MIC 69	DSC Microbiology Lab-6	-	16	-	-	100	100	8
<b>Semester –VI Total</b>				<b>10</b>	<b>24</b>	<b>200</b>	<b>50</b>	<b>175</b>	<b>425</b>	<b>22</b>

Abbreviations: TH-Theory, PR-Practical, PRO- Project, ESE- End Semester Examination, CIE-Continuous Internal Examination

Note: Minimum passing for 10 marks Internal evaluation = 04 marks

Minimum passing for 40 marks Theory paper = 16 marks

Minimum passing for 25 marks Practical = 10 marks

Minimum passing for 50 marks Practical/FP/OJT = 20 marks

Minimum passing for 100 marks Practical/FP = 40 marks

Passing percentage for Democracy, Election and Good Governance (DEGG) and Environmental Studies papers should be 40%

**Separate passing for each Head - ESE, CIE and Practicals**