

**M. Sc. Biotechnology Course Curriculum (2019-2020)**

**I st SEMESTER (MS1)**

S.No.	Subject	L-T-P	Credits
1	General Microbiology	3-0-0	3
2	Molecular Genetics and Genomics	3-0-0	3
3	Biochemistry and Intermediary Metabolism	3-0-0	3
4	Research Methodology and Inferential Statistics	3-0-0	3
5	GLP and Bioinstrumentation	3-0-0	3
6	Introduction to IPR	3-0-0	3
7	General Microbiology lab.	0-0-2	1
8	Molecular Genetics and Genomics lab	0-0-2	1
9	Biochemistry and Intermediary Metabolism lab.	0-0-2	1
	<b>Total</b>	<b>24</b>	<b>21</b>

**II nd SEMESTER (MS2)**

S.No.	Subject	L-T-P	Credits
1	Immunology and Immunotechnology	3-0-0	3
2	Bioprocess Technology	3-0-0	3
3	Plant and Animal Biotechnology	3-0-0	3
4	Basic Bioinformatics	2-0-0	2
5	Elective-I	3-0-0	3
6	Immunology and Immunotechnology lab.	0-0-2	1
7	Bioprocess Technology lab.	0-0-2	1
8	Plant and Animal Biotechnology lab	0-0-2	1
9	Environmental Biotechnology	3-0-0	3
10	Basic Bioinformatics lab.	0-0-2	1
11	Masters Research review seminar	0-0-2	1
	<b>Total</b>	<b>27</b>	<b>22</b>

**III rd SEMESTER (MS3)**

S.No.	Subject	L-T-P	Credits
1	Food Biotechnology	3-0-0	3
2	Enzymology and Enzyme Technology	3-0-0	3
3	Recombinant DNA Technology	3-0-0	3
4	Elective-II	3-0-0	3
5	Food Biotechnology lab.	0-0-2	1
6	Enzymology and Enzyme Technology Lab	0-0-2	1
7	Recombinant DNA Technology Lab.	0-0-2	1
8	Master's Research Thesis Part-I	0-0-8	4
	<b>Total</b>	<b>26</b>	<b>19</b>

**IV th SEMESTER (MS4)**

S. No.	Subject	L-T-P	Credits
1	Master's Research Thesis Part-II	0-0-26	13
	<b>Total</b>	<b>26</b>	<b>13</b>

**Total Credit Hours: 75**

**Electives: Elective courses would be offered from the exiting approved elective courses of the Department**