

**Department of Biotechnology**  
**M.Phil (Biotechnology)**

**Semester wise breakup**

**FIRST SEMESTER (12 Credit Hours)**

<b>S.No.</b>	<b>Course</b>	<b>Credit hours</b>
1	GRC-5111: Research Methodology	3+0
2	BTH-5141/713: Recombinant DNA Technology	3+0
3	Elective I	3+0
4	Elective II	3+0
	<b>Total Credit Hours</b>	<b>12</b>

**SECOND SEMESTER (12 Credit Hours)**

<b>S.No.</b>	<b>Course</b>	<b>Credit hours</b>
1	BTH- 5102/708: Biological Safety and Risk Management	3+0
2	BTH-5132/714: Biotechnology Law and Regulation	3+0
3	Elective I	3+0
4	Elective II	3+0
	<b>Total Credit Hours</b>	<b>12</b>

**THIRD SEMESTER TO FOURTH SEMESTER (06 Credit Hours)**

Thesis: 06 Credit hours

**TOTAL CREDIT HOURS = 30**

## **LIST OF ELECTIVE COURSES**

<b>S.No</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Credit Hours</b>
1.	BTH-5021/701	Modern Biotechnology: Principles and application	3+0
2.	BTH-5031/703	Advances in Environmental Biotechnology	3+0
3.	BTH-5041/705	Advances in Plant Biotechnology	3+0
4.	BTH 5051/707	Microbial Enzyme Technology	3+0
5.	BTH-5061/709	Advances in Protein Chemistry	3+0
6.	BTH-5072/702	Advances in Industrial Biotechnology	3+0
7.	BTH-5082/704	Advances in Pharmacogenomics	3+0
8.	BTH- 5092/706	Bioprocess Technology	3+0
9.	BTH-5112/710	Forensic Sciences	3+0
10.	BTH- 5122/712	Advances in animal cell culture	3+0