

**MASTER OF SCIENCE  
(BIOTECHNOLOGY)  
TWO-YEAR FULL-TIME PROGRAMME**

**AFFILIATION**

The proposed programme shall be governed by the Department of Biotechnology, Faculty of Science, D.D.U. Gorakhpur University, Gorakhpur– 273009.

**PROGRAMME STRUCTURE**

The M.Sc. Programme is divided into two Parts as under. Each part will consist of two Semesters as given below.

		<b>Semester – Odd</b>	<b>Semester – Even</b>
Part I	First Year	Semester – 1	Semester – 2
Part II	Second Year	Semester – 3	Semester – 4

For semester-1 and 2 would consist of four theory papers of 4 credits each, one laboratory course of 8 credits and one seminar of 1 credit. In semester 3 one elective course of 4 credits would also be offered for other Departments of Faculty of Sciences besides four theory papers (core courses), one laboratory course and seminar. In semester 4, students have to select three out of four papers (elective) along with dissertation (core) and one seminar of 1 credit. **Dissertation/project work will be carried out by students under supervision of faculty members.**

The schedule of papers prescribed for various semesters shall be as follows:

**PART I: Semester – 1**

1	BT 501	Microbiology
2	BT 502	Molecular Biology
3	BT 503	Biochemistry
4	BT 504	Cell Biology
5	BT 505	Laboratory course-I
6	BT 506	Seminar

**PART I: Semester – 2**

1	BT 507	Recombinant DNA technology
2	BT 508	Enzyme Technology
3	BT 509	Immunology
4	BT 510	Bioinformatics, Biostatistics and Genomics
5	BT 511	Laboratory course-II
6	BT 512	Seminar

**PART II: Semester – 3**

1	BT 513	Plant Biotechnology
2	BT 514	Animal Biotechnology
3	BT 515	Bioprocess Technology
4	BT 516	Environmental Biotechnology
5	BT 517	Introductory Biotechnology (Elective for other department)
6	BT 518	Laboratory course-III
7	BT 519	Seminar

**PART II: Semester – 4 (Elective course)**

- Students will select three papers (courses) out of four papers from MBT-401, MBT-402, MBT-403 and MBT-404.
- Each student will have to submit an allotted dissertation (MBT-406), which would be based on research works and will submit a report on which Viva-voce will be conducted.

1	BT 520	Genomics for crop improvement(Elective)
2	BT 521	Proteomics and Nanobiotechnology (Elective)
3	BT 522	Biosafety, IPR and Bioethics (Elective)
4	BT 523	Animal Cell and Tissue Culture (Elective)
5	BT 524	Seminar
6	BT 525	Dissertation