

**Department of Biotechnology
Jamia Millia Islamia, New Delhi-110025**

COURSE STRUCTURE & REVISED SYLLABUS AS PER NEP GUIDELINES

1ST YEAR

SEMESTER-I				
S.No.	Papers	Code	Credit	MM
1	Biochemistry & Metabolism (C-1)	BBT-101	4	100
2	Cell Biology (C-2)	BBT-102	4	100
3	Essential Mathematics (AECC)	BBT-103	4	100
4	Biotechnology and Human Welfare (GE-1)	BBT-104	4	100
5	Lab Course-I	BBT-105	4	100
Total			20	500

SEMESTER-II

S.No.	Papers	Code	Credit	MM
1	Mammalian Physiology (C-3)	BBT-201	4	100
2	Plant Anatomy & Physiology (C-4)	BBT-202	4	100
3	Bioinformatics and Biostatistics (AECC)	BBT-203	4	100
4	Entrepreneurship Development (GE-2)	BBT-204	4	100
5	Lab Course-II	BBT-205	4	100
Total			20	500

2ND YEAR

SEMESTER-III

S.No.	Papers	Code	Credit	MM
1	Genetics (C-5)	BBT-301	4	100
2	General Microbiology (C-6)	BBT-302	4	100
3	Chemistry-1 (C-7)	BBT-303	4	100
4	Medical Biotechnology (SEC-1)	BBT-304	4	100
5	Animal Biotechnology	BBT-305	4	100
6	Lab Course-III	BBT-306	4	100
Total			24	600

SEMESTER-IV

S.No.	Papers	Code	Credit	MM
1	Molecular Biology (C-8)	BBT-401	4	100
2	Immunology (C-9)	BBT-402	4	100
3	Chemistry-2 (C-10)	BBT-403	4	100
4	Development Biology (GE-3)	BBT-404	4	100
5	Enzymology (SEC-2)	BBT-405	4	100
6	Lab Course-IV	BBT-406	4	100
Total			24	600

3RD YEAR

SEMESTER-V				
S.No.	Papers	Code	Credit	MM
1	Bioprocess Technology (C-11)	BBT-501	4	100
2	Recombinant DNA Technology (C-12)	BBT-502	4	100
3	Animal Diversity-I (DES-I)	BBT-503	4	100
4	Plant Diversity-I (DES-II)	BBT-504	4	100
5	Plant Biotechnology	BBT-505	4	100
6	Lab Course- V	BBT-506	4	100
	Total		24	600

SEMESTER-VI				
S.No.	Papers	Code	Credit	MM
1	Bio Analytical Tools (C-13)	BBT-601	4	100
2	Genomic sand Proteomics (C-14)	BBT-602	4	100
3	Animal Diversity-II (DES-3)	BBT-603	4	100
4	Plant Diversity-II (DES-I4)	BBT-604	4	100
5	Environmental Biotechnology (GE- 4)	BBT-605	4	100
6	Lab Course- VI	BBT-606	4	100
	Total		24	600

4TH YEAR

SEMESTER-VII				
S.No.	Papers	Code	Credit	MM
1	Research Ethics (Human Animal & Environment) (SEC)	BBT-701	4	100
2	Biosafety & Radiation Safety	BBT-702	4	100
3	Seminar	BBT-703	2	50
4	Research Project-I	BBT-704	10	250
	Total		20	500

SEMESTER-VIII				
S.No.	Papers	Code	Credit	MM
1	Seminar	BBT-801	2	50
2	Research Project-II	BBT-802	18	450
	Total		20	500