

Curriculum Structure of 2-year M. Sc. Programme
Environmental Biotechnology
(w. e. f. Academic Session 2023-24)

First Semester

S.No	Course Code	Course Title	Contact Hours				Credit
			L	T	P	Total	
1	19M21BT113	Biomolecules	3	1	-	4	4
2	20M31BT111	Environmental Chemistry	3	1	-	4	4
3	15B1NBT832	Biostatistics and Applications	3	1	-	4	4
4	19M21BT115	Microbial Genetics and Molecular Biology	3	1	-	4	4
5	20M35BT111	Lab I - Environmental Biotechnology Lab -I	-	-	8	8	4
6	19M21HS111	Presentation and Communication Skills	2	-	-	2	Audit
		Total	14	4	8	26	20

Second Semester

S.No.	Course Code	Course Title	Contact Hours				Credit
			L	T	P	Total	
1	20M31BT112	Environmental Pollution, Assessment & Monitoring	3	1	-	4	4
2	19M21BT114	Environmental Microbiology	3	1	-	4	4
3	20M31BT113	Environmental Toxicology	3	1	-	4	4
4	19M21BT116	Immunology and Immunotechnology	3	1	-	4	4
5	xxxxxxxx	DE-I	3	-	-	3	3
6	20M35BT112	Lab II - Environmental Biotechnology Lab -II	-	-	8	8	4
		Total	15	4	8	27	23

Third Semester

S.No.	Course Code	Course Title	Contact Hours				Credit
			L	T	P	Total	
1	16B1NBT733	Waste Management	3	1	-	4	4
2	19M21BT212	Recombinant DNA Technology	3	1	-	4	4
3	20M31BT211	Environmental Policy, Ethics & Legislation	3	-	-	3	3
4	Xxxxxxxxx	DE-II	3	-	-	3	3
5	Xxxxxxxxx	DE-III	3	-	-	3	3
6	xxxxxxxx	DE-IV	3	-	-	3	3
7	20M35BT211	Lab III- Environmental Biotechnology Lab -III	-	-	8	8	4
		Total	18	2	8	28	24

Fourth Semester

S.No.	Course Code	Course Title	Contact Hours				Credit
			L	T	P	Total	
1	xxxxxxxx	DE-V	3	-	-	3	3
2	20M37BT211	Project Work/Dissertation	-	-	20	20	10
		Total	3	-	20	23	13

Total Credits: 80

Electives: Proposed and subject to change from time to time

Semester II

DE-I

22M32BT211	Nanotechnology for Environmental Engineering (SS)
19M22BT214	Public Health (AM)
22M12BT111	Agriculture Biotechnology (KS)

Semester III

DE-II

17M12BT111	Biosensors
17M12BT118	Product development in Biotechnology
19M12BT113	Sustainable Agriculture

DE-III

20M32BT211	Bioremediation
20M32BT212	Bioformulations
19M21BT213	Bioinformatics and Omics

DE-IV

20M32BT214	Environment and Developmental Biology (PD)
22M22BT211	Market Research and Data Analysis (AM)
20M32BT216	Genomics & proteomics (SC)

Semester IV

DE-V

15B1NBT833	Plant Diseases & Biotechnology
20M32BT213	Bioentrepreneurship
18M12BT116	IPR in Biotechnology