

Curriculum Structure of 2-year M. Sc. Programme
Environmental Biotechnology

(w. e. f. Academic Session 2020-21)

First Semester

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

Second Semester

S.No.	Course Title	Contact Hours				Credit
		L	T	P	Total	
XXXXXXXXXX	Environmental Pollution, Assessment & Monitoring	3	1	-	4	4
19M21BT114	Environmental Microbiology	3	1	-	4	4
XXXXXXXXXX	Environmental Toxicology	3	1	-	4	4
19M21BT116	Immunology and Immunotechnology	3	1	-	4	4
XXXXXXXXXX	Lab II - Environmental Biotechnology Lab -II	-	-	8	8	4
	Total	12	4	8	24	20

Third Semester

S.No.	Course Title	Contact Hours				Credit
		L	T	P	Total	
16B1NBT733	Waste Management	3	1	-	4	4
19M21BT212	Recombinant DNA Technology	3	1	-	4	4
XXXXXXXXXX	Environmental Policy, Ethics & Legislation	3	-	-	3	3
4	DE-I	3		-	3	3
5	DE-II	3		-	3	3
XXXXXXXXXX	Lab III- Environmental Biotechnology Lab -III	-	-	8	8	4
	Total	15	2	8	25	21

Fourth Semester

S.No.	Course Title	Contact Hours				Credit
		L	T	P	Total	
1	DE-III	3	-	-	3	3
2	DE-IV	3	-	-	3	3
3	DE-V	3	-	-	3	3
XXXXXXXX	Project Work/Dissertation	-	-	20	20	10
	Total	9	-	20	29	19

Total Credits: 80

Electives: Proposed and subject to change from time to time

DE-I

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

DE-II

XXXXXXXX	Bioremediation
XXXXXXXX	Bioformulations
18M12BT116	IPR in Biotechnology

Semester IV

DE-III

15B1NBT833	Plant Diseases & Biotechnology
XXXXXXXX	Bioentrepreneurship
19M21BT213	Bioinformatics and Omics

DE-IV

XXXXXXXX	Environment and Developmental Biology
XXXXXXXX	Genetics
XXXXXXXX	Genomics & proteomics

DE-V

17M12BT125	Nanobiotechnology
17M12BT129	Metagenomics
19M22BT214	Public Health