

Curriculum Structure of 2-year M. Sc. Programme in Microbiology for Odd Sem 2020

1st SEMESTER - BIO

S. No.	Course Title	Core/ Elective	Contact Hours				Credits
			L	T	P	Total	
19M21BT111	Microbial Physiology and Diversity	Core	3	1	-	4	4
19M21BT113	Biomolecules	Core	3	1	-	4	4
19M21BT115	Microbial Genetics and Molecular Biology	Core	3	1	-	4	4
15B1NBT832	Biostatistics and Applications	Core	3	1	-	4	4
19M21HS111	Presentation and Communication Skills	Core	2	-	-	2	Audit

3rd SEMESTER - BIO

S. No.	Course Title	Core/ Elective	Contact Hours				Credits
			L	T	P	Total	
19M21BT211	Food & Dairy Microbiology	Core	3	1	-	4	4
19M21BT212	Recombinant DNA Technology	Core	3	1	-	4	4
19M21BT213	Bioinformatics and Omics	Core	3	-	-	3	3
XxxxX	DE-1	Elective	3	-	-	3	3
XxxxX	DE-2	Elective	3	-	-	3	3

Discipline Elective-1 (For III Sem)

S.No.	Course Code	Title	Remarks	Count
1	17M12BT116	Regulatory affairs		30
2	17M12BT111	Biosensors		30
3	17M12BT118	Product development in Biotechnology		30

Discipline Elective-2 (For III Sem)

S.No.	Course Code	Title	Remarks	Count
1	19M22BT211	Diagnostic Microbiology		30
2	18M12BT116	IPR in Biotechnology		30

Curriculum Structure of 2-year M. Sc. Programme in Mathematics for Odd sem-2020

1st SEMESTER - MATH

S. No.	Course Code	Course Name	Core/ Elective	Contact Hours				Credits
				L	T	P	Total	
1.	19M21MA112	Real Analysis	Core	3	1	-	4	4
2.	19M21MA113	Abstract Algebra	Core	3	1	-	4	4
3.	19M21MA114	General Topology	Core	3	1	-	4	4
4.	19M21HS111	Presentation and	Core	2	-	-	2	Audit

3rd SEMESTER - MATH

S. No	Course Code	Course Name	Core/ Elective	Contact Hours				Credits
				L	T	P	Total	
1.	19M21MA211	Mathematical Statistics	Core	3	1	-	4	4
2	XXXXXXXXXX	DE- 1	Elective	3	-	-	3	3
3	XXXXXXXXXX	DE- 2	Elective	3	-	-	3	3
4	XXXXXXXXXX	DE- 3	Elective	3	-	-	3	3

Discipline Elective-1 (For III Sem)				
S.No.	Course Code	Title	Remarks	Count
1	20M22MA211	Advanced Matrix Theory		3

Discipline Elective-2 (For III Sem)				
S.No.	Course Code	Title	Remarks	Count
1	20M22MA212	Continuum Mechanics		3

Discipline Elective-3 (For III Sem)				
S.No.	Course Code	Title	Remarks	Count
1	20M22MA213	Fuzzy Sets and Applications		3

Curriculum Structure of 2-year M. Sc. Programme in Physics for Odd Sem-2020

1st SEMESTER - PHYSICS									
S. No.	Course Code	Course	Core/ Elective	Contact hours				Credit	
				L	T	P	Total		
1.	19M21PH111	Classical Mechanics	Core	3	1	-	4	4	
2.	19M21PH112	Mathematical Physics	Core	3	1	-	4	4	
3.	19M21PH113	Quantum Mechanics	Core	3	1	-	4	4	
4.	19M21PH114	Electronics	Core	3	1	-	4	4	
5.	19M21HS111	Presentation and Communication Skills	Core	2		-	2	Audit	

3rd SEMESTER - PHYSICS									
S. No.	Course Code	Course	Core/ Elective	Contact hours	L	T	P	Total	Cr.
2	19M21PH212	Advanced Quantum Mechanics	Core	3	1	-	4	4	
3	19M21PH213	Numerical Techniques and Computer Programming	Core	3	-	-	3	3	
4	19M21PH214 Or 19M21PH215	Special Paper-1: Advanced Condensed Matter Physics-1 OR Special Paper-1: Optoelectronics	Core	3	-	-	3	3	
5	XxxxX	DE-1	Elective	3	-	-	3	3	

Discipline Elective-1 (For III Sem)				
S.No.	Course Code	Title	Remarks	Count
1	20M22PH212	Quantum Optics		5
2	20M22PH213	Semiconductor & Electronic Devices		5