

R21 Curriculum and Syllabus, MSc in Medical Microbiology Centre for Health Science and Technology, JISIASR Kolkata

SEMESTER - 1									
Sl. No.	Туре	Course No.	Course Name	L	Т	P	Credits		
	THEORY								
1	PC	PBB1001	Introduction to Bioinformatics	2	1	0	3		
2	PC	PBB1002	Cell and Molecular Biology	2	0	0	2		
3	PC	PBB1003	Biochemistry of Macromolecules	2	0	0	2		
4	PC	PMM1001	Human Anatomy and Physiology	2	0	0	2		
5	PC	PMM1002	Clinical Microbiology	2	0	0	2		
6	OE	PDS1001	Probability and Statistics	4	0	0	4		
	PRACTICAL								
7	PC	PBB1101	Biochemistry	0	0	4	2		
8	PC	PMM1101	Medical Microbiology	0	0	6	3		
MANDATORY NON-CGPA COURSE									
9	MC	PMM1501	Seminar/Skill-Ex	_	-	_	2		
	TOTAL				1	10	20		



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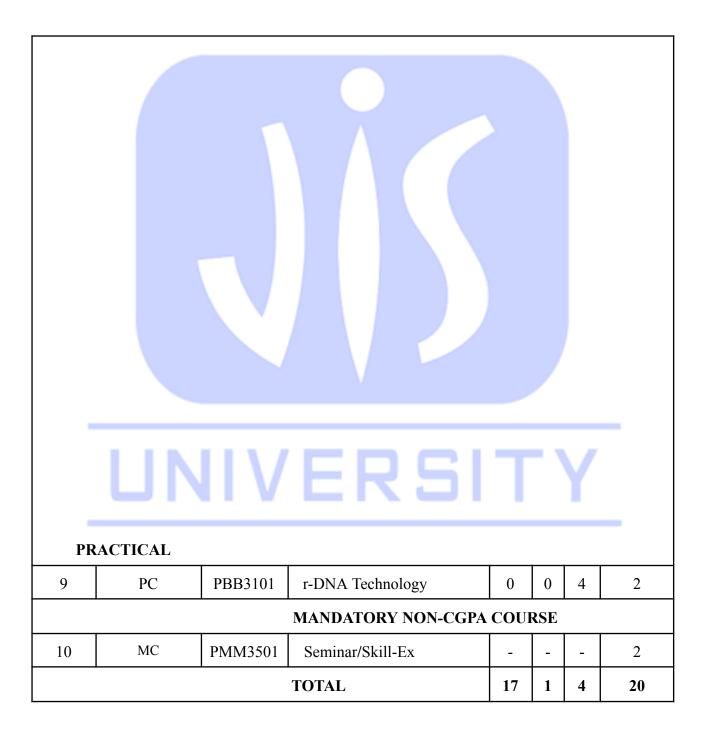
SEMESTER - 2									
Sl. No.	Туре	Course No.	Course Name	L	Т	P	Credits		
THEORY									
1	PC	PBB2001	Phylogenetics and Evolution	2	1	0	3		
2	PC	PMM2001	Medical Metagenomics and Microbiome	2	1	0	3		
3	PC	PMM2002	Bacterial Pathogenesis	2	0	0	2		
4	PC	PMM2003	Medical Virology	2	0	0	2		
5	PC	PMM2004	Medical Mycology	2	0	0	2		
6	OE	PPS2007	Immunology	4	0	0	4		
	PRACTICAL								
7	PC	PMM2101	Immunology	0	0	4	2		
8	PC	PMM2102	Systemic Bacteriology	0	0	4	2		
MANDATORY NON-CGPA COURSE									
9	MC	PMM2501	Seminar/Skill-Ex		-	-	2		

TOTAL 14	2	8	20
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SEMESTER - 3								
Sl. No.	Туре	Course No.	Course Name	L	Т	P	Credits	
			THEORY		_			
1	PC	PMM3001	Systems Biology and Biological Networks	2	0	0	2	
2	PC	PMM3002	Parasitology	2	0	0	2	
3	PC	PMM3003	Haematology	2	0	0	2	
4	PC	PMM3004	Medical Genomics and Computer-aided Drug Design	2	0	0	2	
5	PC	PMM3005	Global Health and Epidemiology	2	0	0	2	
6	PC	PBB3004	Genetic Engineering and Synthetic Biology	2	1	0	3	
7	PC	PBB3005	Career Development, Entrepreneurship and IPR	2	0	0	2	
8	PC	PBB3006	Research Methodology	3	0	0	3	



	SEMESTER - 4								
Sl. No.	Туре	Course No.	Course Name	L	T	P	Credits		
1	PC	PMM4001	Final Thesis with Oral Presentation and Viva Voce	-	-	-	20		
MANDATORY NON-CGPA COURSE									
2	MC	PMM4501	Seminar/Skill-Ex		-		2		
	TOTAL				-	-	20		