

Programme Name: Master of Science (Microbiology)
Semester – I For the Batch : AY 23-24 onwards

		Teaching Scheme (Hrs./Week)					ne Examination Scheme					
Sr. No.	Core	Course Code	Course Name	L	Т	P	C	Form Assess CIA	ment		native sment E	Total Marks
								Course	Lab	Course	Lab	
1	PC	NPMI101	Microbial Diversity and Taxonomy	4	0	0	4	50	-	50	-	100
2	PC	NPMI102	Instrumentation	4	0	0	4	50	-	50	-	100
3	PC	NPMI111	Microbial Diversity and Taxonomy Laboratory	0	0	4	2	-	50	-	50	100
4	PC	NPMI112	Instrumentation Laboratory	0	0	4	2	-	50	-	50	100
5	PE	NPMIE02	Food and Dairy Microbiology	4	0	0	4	50	-	50	-	100
6	UC	NRDP101	Research Methodology	4	0	0	4	50	1	50	-	100
	TOTAL					8	20	200	100	200	100	600

Course Code	Course Name
NPMIE01	Environmental Microbiology
NPMIE02	Food and Dairy Microbiology
NPMIE03	Parasitology

		Formative Assessment					
CIA: Continuous Internal Assessment	#: Internship for 15 days.	CIA	Weightage	Description			
L: Theory Lecture	*: Oral Examination	CIA 1	10%	Home Assignment			
T: Tutorial	UC: University Core	CIA 2	20%	Written Exam			
		CIA3	10%	Seminar Presentation			
P: Practical	PC: Programme Core	CIA 4	10%	Activity/Project & Research			
ESE: End Semester Exam	PE: Programme Elective	CIA4	1070	Based Activity			
	OE:Open Elective						
	VAC: Value Added Courses	TOTAL	50%				



Programme Name: Master of Science (Microbiology)
Semester – II For the Batch : AY 23-24 onwards

				Teaching Scheme (Hrs./Week)		Examination Scheme						
Sr. No.	Core	Course Code	Course Name	L	Т	P	С	Form Assess CLA	ment	Sumn Asses ES	sment	Total Marks
								Course	Lab	Course	Lab	
1	PC	NPMI201	Medical Microbiology	4	0	0	4	50	-	50	-	100
2	PC	NPMI202	Biochemistry	4	0	0	4	50	-	50	-	100
3	PC	NPMI203	Ecology	4	0	0	4	50	-	50	-	100
4	PC		Medical Microbiology Laboratory	0	0	4	2	-	50	-	50	100
5	PC	NPMI212	Biochemistry Laboratory	0	0	4	2	-	50	-	50	100
6	PC	NPMI203	Ecology Laboratory	0	0	4	2	-	50	-	50	100
7	PE	NPMIE06	Microbial Genetics	4	0	0	4	50	-	50	-	100
	TOTAL				0	12	22	200	150	200	150	700

Course Code	Course Name
NPMIE01	Environmental Microbiology
NPMIE02	Food and Dairy Microbiology
NPMIE03	Parasitology

		Formative Assessment				
CIA: Continuous Internal Assessment	#: Internship for 15 days.	CIA	Weightage	Description		
L: Theory Lecture	*: Oral Examination	CIA 1	10%	Home Assignment		
T: Tutorial	UC: University Core	CIA 2	20%	Written Exam		
	,	CIA 3	10%	Seminar Presentation		
P: Practical	PC: Programme Core	CIA 4	10%	Activity/Project & Research		
ESE: End Semester Exam	PE : Programme Elective			Based Activity		
	OE:Open Elective					
	VAC: Value Added Courses	TOTAL	50%			



Programme Name: Master of Science (Microbiology)
Semester – III For the Batch : AY 23-24 onwards

			Teaching Schem (Hrs./Week)			Exa						
Sr. No.	Core	Course Code	Course Name	L	Т	P	C	Form Assess CLA	sment		native sment E	Total Marks
								Course	Lab	Course	Lab	
1	PC	NPMI301	Industrial and Environmental Microbiology	4	0	0	4	50	-	50	-	100
2	PC	NPMI302	Microbial Physiology and Metabolim	4	0	0	4	50	-	50	-	100
3	PC	NPMI303	Large Scale Manufacturing Process	4	0	0	4	50	-	50	-	100
4	PE	NPMIE	Programme Elective III	4	0	0	4	50	-	50	-	100
5	PE	NPMIE	Programme Elective IV	4	0	0	4	50	-	50	-	100
6	PC	NPMI311	Environmental Microbiology Laboratory	0	0	4	4	-	50	-	50	100
7	PC	NPMI312	Microbial Physiology and Metabolim Laboratory	0	0	4	2	-	50	-	50	100
		20	0	8	26	250	100	250	100	700		

Course Code	Course Name
NPMIE07	Pharmaceutical Microbiology
NPMIE08	Industrial Microbiology
NPMIE09	Intellectural Property Rights

Course Code	Course Name
NPMIE10	Nutraceuticals
NPMIE11	Intellectual Property Rights
NPMIE12	Biostatistics and Bioinformatics

		Formative Assessment					
CIA: Continuous Internal Assessment	#: Internship for 15 days.	CIA	Weightage	Description			
L: Theory Lecture	*: Oral Examination	CIA 1	10%	Home Assignment			
T: Tutorial	UC: University Core	CIA 2	20%	Written Exam			
		CIA 3	10%	Seminar Presentation			
P: Practical	PC: Programme Core	CIA 4	10%	Activity/Project & Research			
ESE: End Semester Exam	PE: Programme Elective	CIA4	1070	Based Activity			
	OE:Open Elective VAC: Value Added Courses	TOTAL	50%				



Programme Name: Master of Science (Microbiology) Semester – IV For the Batch : AY 23-24 onwards

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	Sr. No.	Core	Course Code	Course Name	L	Т	P	C			Summative Assessment ESE		Total Marks
									Course	Lab	Course	Lab	
	1	PC	NPMI411	Research Project	0	0	36	20	-	300	-	300	600
Ī	TOTAL			0	0	36	20	-	300	-	300	600	

		Formative Assessment					
CIA: Continuous Internal Assessment	#: Internship for 15 days.	CIA	Weightage	Description			
L: Theory Lecture	*: Oral Examination	CIA 1	10%	Home Assignment			
T: Tutorial	UC: University Core	CIA 2	20%	Written Exam			
		CIA3	10%	Seminar Presentation			
P: Practical	PC: Programme Core	CIA 4	10%	Activity/Project & Research			
ESE: End Semester Exam	PE: Programme Elective	CIA4	1070	Based Activity			
	OE:Open Elective VAC: Value Added Courses	TOTAL	50%				