



NEHRU ARTS AND SCIENCE COLLEGE

(Autonomous)

(Reaccredited With “A” Grade by NAAC, ISO 9001: 2008 & 14001: 2004 Certified,
Recognized by UGC with 2(f) & 12(B) and Affiliated to Bharathiar University)
Nehru Gardens, Thirumalayampalayam, Coimbatore - 641 105, Tamil Nadu.



M. Sc. MICROBIOLOGY SCHEME OF EXAMINATION

(Applicable to the students admitted during the academic year 2018– 2019)

Semester	Part	Course Code	Name of the Course	Ins. Hrs/ week	Examinations				Credit
					Dur. Hrs.	CIA	ESE	Total Marks	
I	III	18PGMBC101	Core Paper I - Fundamentals of Microbiology	5	3	25	75	100	4
		18PGMBC102	Core Paper II - Microbial Physiology and Biochemistry	5	3	25	75	100	4
		18PGMBC103	Core Paper III – Applied Biotechniques	5	3	25	75	100	4
		18PGMBC104	Core Paper IV - Environmental and Agricultural Microbiology	5	3	25	75	100	4
		18PGMBE 101/102/103	Discipline Specific Elective Paper – I	5	3	25	75	100	4
		18PGMBQ101	Core Paper V Lab in Fundamentals of Microbiology	5	9	40	60	100	4
			Sub Total	30				600	24
II	III	18PGMBC205	Core Paper VI – Molecular Genetics	5	3	25	75	100	4
		18PGMBC206	Core Paper VII – Bacteriology and Parasitology	5	3	25	75	100	4
		18PGMBC207	Core Paper VIII - Bioprocess Technology	5	3	25	75	100	4
		18PGMBC208	Core Paper IX – Gene Manipulation and Bioinformatics	5	3	25	75	100	4
		18PGMBE 201/202/203	Discipline Specific Elective Paper – II	5	3	25	75	100	4
		18PGMBQ202	Core Paper X Lab in Applied Microbiology	5	9	40	60	100	4
		18PGMBT201	Internship Training	-	-	-	-	50	2
			Sub Total	30				650	26
III	III	18PGMBC309	Core Paper XI– Immunology and Immunotechnology	5	3	25	75	100	4
		18PGMBC310	Core Paper XII - Virology ad Mycology	5	3	25	75	100	4
		18PGMBC311	Core Paper XIII - Biotechnology and IPR	5	3	25	75	100	4
		18PGMBC312	Core Paper XIV – Microbial Food Technology	5	3	25	75	100	4
		18PGMBC313	Core Paper XV – Biostatistics and Research Methodology	5	3	25	75	100	4
		18PGMBQ403	Core Paper XVI Lab in Medical Microbiology	5	-	-	-	-	-
	IV	18PGMBVALC	Skill Enhancement Add on course – Institute / Industry Linkage	-	-	-	-	-	Grade
			Sub Total	30				500	20

IV	III	18PGMBE 401/402/403	Discipline Specific Elective Paper – III	5	3	25	75	100	4
		18PGMBQ403	Core Paper XVI Lab in Medical Microbiology	5	9	40	60	100	4
		18PGMBV401	Project and viva voce	15	-	40	160	200	8
		18PGMBY402	Discipline Specific Elective Paper - IV- Lab in Health Care of the Community	5	9	40	60	100	4
				30				500	20
			Total					2250	90

LIST OF DISCIPLINE SPECIFIC ELECTIVE PAPER PAPERS:

Discipline Specific Elective Papers	Course code	Group	Name of the Course
Discipline Specific Elective Paper I/ Sem I	18P3MBE101	A	Principles of Quality Assurance
	18P3MBE102	B	Environment and Health
	18P3MBE103	C	Basic Biological Science
Discipline Specific Elective Paper II/Sem II	18P3MBE201	A	Quality Assessment in Pharmaceuticals
	18P3MBE202	B	Communicable and Non Communicable Diseases
	18P3MBE203	C	Biophysics and Biochemistry
Discipline Specific Elective Paper III/Sem IV	18P3MBE401	A	Total Quality Management (TQM)
	18P3MBE402	B	Health Care of the Community
	18P3MBE403	C	Molecular Cytology and Tissue Engineering

Part	Courses	Semesters	Credit/Points	Marks/Grade
III	Components Core / Discipline Specific Elective Papers	I to IV	82	2050
III	Research Project	IV	8	200
Total			90	2250
Optional	i) Advanced Learners Course (ALC) - self study	I – IV	Extra credit – 8 (2 / Paper / Sem)	400 [@]

@- NOT INCLUDED IN TOTAL MARKS & CGPA CALCULATION

List of Advanced Learners Course (Self Study)

S.No.	Course Code	Name of the Course
1	18PMBSS01	HACCP
2	18PMBSS02	Medical Laboratory Technology
3	18PMBSS03	Mushroom Cultivation Technology
4	18PMBSS04	Bio-Inoculant Technology
5	18PMBSS05	Basic techniques in Tissue culture

**Chairman
Board of Studies in Microbiology
Nehru Arts and Science College,
Coimbatore**