M.Sc. Microbiology

Total Credits: 100

Semester I

COURSE	PAPER	CREDITS
CODE		
PSMBTC101	Cell Biology	4
PSMBTC102	Bacteriology and Virology	4
PSMBTC103	Biochemistry & Metabolism	4
PSMBTC104	Molecular Biology	4
PSMBPC105	Laboratory course in Bacteriology and Virology and Cell Biology	4
PSMBPC106	Laboratory course in Biochemistry & Metabolism and Molecular Biology	4
TOTAL		24

STUDENTS WILL REGISTER FOR A MINIMUM OF 2 CREDIT COURSE FROM SWAYAM

Semester II

COURSE	PAPER	CREDITS
CODE		
PSMBTC201	Genetic Engineering	4
PSMBTC202	Enzymology	4
PSMBTC208	Microbial Genetics	2
PSMBTC204	Molecular Virology	2
PSMBTC205	Immunology	4
PSMBTC210	Term Paper	1
PSMBPC206	Laboratory course in Genetic Engineering and	4
	Enzymology	
PSMBPC209	Laboratory course in Microbial Genetics and Immunology	4
TOTAL		25

Semester III

COURSE	PAPER	CREDITS
CODE		
PSMBTC301	Mycology and Phycology	4
PSMBTC302	Food Microbiology	2
PSMBTC303	Bioprocess Engineering	4
PSMBTC310	Bioinformatics & Biostatistics	2
PSMBTC308	IPR	2
PSMBTE309	Nanotechnology in Biology	2
PSMBTC311	Review Paper writing	1
PSMBPC314	Laboratory course in Mycology and Phycology and Food	4
	Microbiology	
PSMBPC312	Laboratory course in Bioprocess Engineering	2
PSMBPC313	Laboratory course in Bioinformatics	2
TOTAL		25

Students will register for a minimum of 4 credits of course from other Departments of the University

Semester IV

COURSE	PAPER	CREDITS
CODE		
PSMBDC408	Research Project+Project presentation+Viva-	08
	Voce+Dissertation	
PSMBDC402	Journal Club	2
PSMBTC406	Environmental Microbiology	2
PSMBTC404	Medical Microbiology	4
PSMBPC407	Laboratory course in Environmental microbiology	2
TOTAL		18

Students will register for a minimum of 4 credits of course from other Departments of the University

Open courses offered by the School:-

1. Techniques in Biotechnology 4 Credits (To 3rd Sem students)

2. Essentials in Microbiology and Biochemistry 4 Credits (To 4th Sem students)