

Annexure 32.3.17 (i)

M.Sc. Microbiology			
Semester 1			
	CourseCode	Course Name	Credits
1	BIO419	BIOCHEMISTRY	4
2	MIC407	MICROBIOLOGY	2
3	MAT401	BIostatISTICS	3
4	BIO401	MOLECULAR BIOLOGY	3
5	BIO400	CELL BIOLOGY & STEM CELL BIOLOGY	3
6	BIO404	ETHICS IN RESEARCH & INTELLECTUAL PROPERTY RIGHTS	2
7	MIC480	MICROBIOLOGY - LAB	2
8	BIO482	BIOCHEMISTRY - LAB	2
9	CUL401	CULTURAL EDUCATION	1
	SSK401	Soft Skills I	1
		Total Credits	23
Semester 2			
1	BIO403	MOLECULAR GENETICS	3
2	BIO497	RESEARCH METHODOLOGY	2
3	BIO408	RECOMBINANT DNA TECHNOLOGY	3
4	MIC402	MICROBIAL PHYSIOLOGY	2
5	BIO418	INDUSTRIAL BIOTECHNOLOGY	3
6	MIC411	BACTERIAL & VIRAL PATHOGENESIS	4
7	BIO481	RECOMBINANT DNA TECHNOLOGY - LAB	2
8	BIO485	INDUSTRIAL BIOTECHNOLOGY - LAB	2
9	AVP411	VALUE PROGRAM	1
10	SSK411	SOFT SKILLS II	2
11		ELECTIVE - 1	3
	BIO466	CELL SIGNALLING	
	BIO464	CANCER BIOLOGY	
	BIO451	NEUROSCIENCE	
	BIO424	BIOANALYTICAL TECHNIQUES	
	BIO410	ADVANCED DISCOVERY BIOLOGY	
	BIO456	ADVANCED BIOCHEMISTRY	
	BIO465	PHAGE BIOLOGY	
	BIO467	BIOMIMICRY	
	BIO569	REGENERATIVE BIOLOGY & STEM CELLS	
		Total Credits	27
Semester 3			
1	BIO514	MOLECULAR AND CELLULAR IMMUNOLOGY & BIOLOGY OF VACCINES	4
2	BIO515	PHARMACEUTICAL BIOTECHNOLOGY	3

3	MIC509	ENVIRONMENTAL & AGRICULTURAL MICROBIOLOGY	3
4	MIC506	PARASITOLOGY	2
5	MIC505	MYCOLOGY	2
6	MIC503	FOOD MICROBIOLOGY	2
7	BIO584	IMMUNOLOGY - LAB	2
8	MIC581	FOOD MICROBIOLOGY - LAB	2
9		OPEN ELECTIVE / LIVE-IN-LABS	2
10	SSK501	SOFT SKILLS III	1
11		ELECTIVE - 2	3
	BIO559	MOLECULAR & CELLULAR NEUROSCIENCE	
	BIO553	NANOBIOTECHNOLOGY	
	BIO527	MASS SPECTROMETRY & PROTEOMICS	
	BIO550	DEVELOPMENTAL BIOLOGY	
	BIO561	GLYCOBIOLOGY	
	BIF514	BIOINFORMATICS	
	BIO568	ECOLOGY & EVOLUTION	
	BIO552	RECENT TRENDS IN RNA BIOLOGY	
	BIO555	MATRIX BIOLOGY AND BIOMATERIALS	
	BIO562	ADVANCED HUMAN PHYSIOLOGY	
		Total Credits	26
Semester 4			
1	MIC599	Dissertation/Thesis	10
		Total Credits	10