

B.Sc. MICROBIOLOGY HONOURS PROGRAMME

Semester	Course Code	Course Title	Total Hours	Hours/Week	Credits	Marks		
						Internal	External	Total
1	MBY1CJ 101/ MBY1MN100	Introduction to Microbiology	75	5	4	30	70	100
		Minor Course 1	75	5	4	30	70	100
		Minor Course 2	75	5	4	30	70	100
	ENG1FA 101(2)	AEC1– English	60	4	3	25	50	75
		AEC2 – Additional Language	45	3	3	25	50	75
		MDC1 – Other than Major	45	3	3	25	50	75
		Total		25	21	165	360	525
2	MBY2CJ 101/ MBY2MN100	Basic Techniques in Microbiology	75	5	4	30	70	100
		Minor Course 3	75	5	4	30	70	100
		Minor Course 4	75	5	4	30	70	100
	ENG2FA 103(2)	AEC3– English	60	4	3	25	50	75
		AEC4 – Additional Language	45	3	3	25	50	75
		MDC2 – Other than Major	45	3	3	25	50	75
		Total		25	21	165	360	525

3	MBY3CJ 201	Microbial Physiology	75	5	4	30	70	100
	MBY3CJ 202/ MBY3MN200	Microbial Metabolism	75	5	4	30	70	100
		Minor Course 5	75	5	4	30	70	100
		Minor Course 6	60/ 75	4	4	30	70	100
		MDC3 – Kerala Knowledge System	45	3	3	25	50	75
	ENG3FV 108(2)	VAC1 – English	45	3	3	25	50	75
		Total		25	22	170	380	550
4	MBY4CJ 203	Environmental and Sanitation Microbiology	75	5	4	30	70	100
		Soil and Agricultural Microbiology	75	5	4	30	70	100
	MBY4CJ 204	Molecular Biology	75	5	4	30	70	100
	ENG4FV 109(2)	VAC2 – English	45	3	3	25	50	75
		VAC3 – Additional Language	45	3	3	25	50	75
	ENG4FS 111(2)	SEC1 – English	60	4	3	25	50	75
		Total		25	21	165	360	525
5	MBY5CJ 301/ MBY8MN305	Systemic Bacteriology	75	5	4	30	70	100
		Industrial Microbiology	75	5	4	30	70	100
	MBY5CJ 303	Basic Aspects of Immunology	60	4	4	30	70	100
		Elective Course 1 in Major	60	4	4	30	70	100
		Elective Course 2 in Major	60	4	4	30	70	100
		SEC2 Entrepreneurial Microbiology	45	3	3	25	50	75
		Total		25	23	175	400	575
6	MBY6CJ 304/ MBY8MN304	Food and Dairy Microbiology	75	5	4	30	70	100

	MBY6CJ 305	Microbial Biotechnology	75	5	4	30	70	100
	MBY6CJ 306/ MBY8MN306	Principles of Genetics	60	4	4	30	70	100
		ElectiveCourse 3 in Major	60	4	4	30	70	100
		ElectiveCourse 4 in Major	60	4	4	30	70	100
	MBY6FS 113	SEC3 – Clinical Microbiology	45	3	3	25	50	75
	MBY6CJ 349	Internship in Major (Credit for internship to be awarded only at the end of Semester 6)	60		2	50	-	50
		Total		25	25	225	400	625
Total Credits for Three Years					133			3325
7	MBY7CJ 401	Biophysics and Instrumentation	75	5	4	30	70	100
	MBY7CJ 402	Advanced Immunology and Cancer Biology	75	5	4	30	70	100
		Microbial Biochemistry	75	5	4	30	70	100
	MBY7CJ 403	Mycology and Parasitology	75	5	4	30	70	100
	MBY7CJ 404	Antimicrobials and drug resistance	75	5	4	30	70	100
	MBY7CJ 405		75	5	4	30	70	100
		Total		25	20	150	350	500
8	MBY8CJ 406/MBY8MN406	Biostatistics and Bioinformaitcs	75	5	4	30	70	100
	MBY8CJ 407/MBY8MN407	Software Tools in Research	60	4	4	30	70	100
	MBY8CJ 408/MBY8MN408	Pharmaceutical Microbiology	60	4	4	30	70	100
	OR (instead of 3 Major courses)							

	MBY8CJ 449	Project (in Honours programme)	360*	13*	12	90	210	300
	MBY8CJ 499	Project (in Honours with Research programme)	360*	13*	12	90	210	300
		Elective Course 5 in Major / Minor Course 7	60	4	4	30	70	100
		Elective Course 6 in Major / Minor Course 8	60	4	4	30	70	100
		Elective Course 7 in Major / Minor Course 9 / Major Course in any Other Discipline	60	4	4	30	70	100
	OR (instead of Elective Course 7 in Major, in the case of Honours with Research Programme)							
	MBY8CJ 489	Research Methodology in Biological Science	60	4	4	30	70	100
		Total		25	24	180	420	600
Total Credits for Four Years					177			4425