



JOY UNIVERSITY
semper paratus

School of Health and Life Sciences

Department of Microbiology

B.Sc Microbiology – I Semester

Sl.No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.	BSMB 1101	Basic Microbiology	4	0	3	7	6
2.	BSMB 1102	Biochemistry	4	0	3	7	6
3.	BAEN 1101	Communicative Skills in English	2	0	0	2	2
4.	BSMB 1103	Basic Computer	3	0	0	3	3
5.		Open elective	3	0	0	3	3
		TOTAL					20

B.Sc Microbiology – II Semester

Sl.No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.	BSMB 1201	Microbial Genetics	4	0	0	4	4
2.	BSMB 1202	Biophysics	4	0	0	4	4
3.	BSMB 1203	Cell and molecular biology	4	0	3	7	6
4.	BSMB 1201	Environmental Microbiology	4	0	0	4	4
5.		Open elective	3	0	0	3	3
		TOTAL					21

B.Sc Microbiology – III Semester

Sl.No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.	BSMB 2102	Microbial physiology and metabolism	4	0	0	4	4
2.	BSMB 2103	Cell and molecular biology	4	0	3	7	6
3.	BSMB 2104	Agricultural and soil microbiology	4	0	3	7	6
4.	BSMB 2105	Biofertilizers and biopesticides	4	0	0	4	4
5.		Open elective	3	0	0	3	3
		TOTAL					23

B.Sc Microbiology – IV Semester

Sl.No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.	BSMB 2201	Food Microbiology	4	0	3	7	6
2.	BSMB 2202	rDNA technology	4	0	0	4	4
3.	BSMB 2203	Bioenergy and Biofuels	3	0	3	6	5
4.	BSMB 2204	Food fermentation techniques	4	0	0	4	4
5.	BSMB 2205	Biostatistics	3	0	0	3	3
6.	BSMB 2206	Microbiological analysis of air and water	4	0	0	4	4
		TOTAL					26

B.Sc Microbiology – V Semester

Sl.No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.	BSMB 3101	Immunology	4	0	0	4	4
2.	BSMB 3102	Industrial Microbiology	4	0	0	4	4
3.	BSMB 3103	Bioremediation of pollutants	4	0	0	4	4
4.	BSMB 3104	Introduction to Bioinformatics	4	0	3	7	6
5.	BSMB 3105	Fermentation technology	4	0	0	4	4
6.	BSMB 3106	Waste management and upcycling	4	0	0	4	4
		TOTAL					26

B.Sc Microbiology – VI Semester

Sl.No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.	BSMB 3201	Medical Microbiology	4	0	0	4	4
2.	BSMB 3202	Microbial Biotechnology	4	0	0	4	4
3.	BSMB 3203	Enzyme technology	4	0	0	4	4
4.	BSMB 3204	Project and seminar					10
		TOTAL					22

TOTAL CREDITS = 138