

**B.Sc. Microbiology Scheme of Curriculum
(2020-21 Batch)**

Course Code	Course Name	L	T	P	Credit
SEMESTER-I					
05010101	Microbial World and Principles of Microbiology	4	0	2	5
05010102	Bacteriology and Systematics	4	0	2	5
05010103	Microbial World and Microbial Diversity	4	0	2	5
05000102	Environmental Science	4	0	0	4
05000101	Foundation course in English	3	0	0	3
	Total	19	0	6	22
SEMESTER-II					
05010201	Basic Biochemistry	4	0	2	5
05010202	Microbial techniques & Instruments	4	0	2	5
05010203	Bacteriology and Virology	4	0	2	5
05000201	Soft skills and personality Development	3	0	0	3
05000202	Disasters management	4	0	0	4
	Total	19	0	6	22
SEMESTER-III					
05010301	Virology	4	0	2	5
05010302	Mycology & Phycology	4	0	2	5
05020303	Biosafety and IPR	4	0	0	4
05010394	Advanced Instrumentation: Principles and Applications	4	0	2	5
05000301	Academic writing	3	0	0	3
	Total	19	0	6	22
SEMESTER-IV					
05010401	Cell and Molecular Biology	4	0	2	5
05010402	Microbial Genetics	4	0	2	5
05010403	Pharmaceutical Microbiology	4	0	2	5

05010404	Microbiological Analysis of Air, Water & Soil	4	0	2	5
05000401	Verbal Communication	3	0	0	3
	Total	19	0	8	23

SEMESTER-V					
05010501	Microbial Physiology and Metabolism	4	0	2	5
05010502	Environmental Microbiology and Microbial Ecology	4	0	2	5
05010503	Industrial Microbiology	4	0	2	5
05010504	Microbial Genetics and Molecular Biology	4	0	2	5
05010505	Microbial Quality Control in Food & Pharmaceutical Industries	4	0	0	4
	Total	20	0	8	24

SEMESTER-VI					
05010601	Medical and Veterinary Microbiology, and Immunology	4	0	2	5
05010602	Agriculture, Food and Dairy Microbiology	4	0	2	5
05010603	Advanced Microbiology	4	0	2	5
05010604	Genetic Engineering and Biotechnology	4	0	2	5
05010605	Microbial Diagnostics and Public Health	4	0	0	4
	Total	20	0	8	24