DEPARTMENT OF BOTANY AND MICROBIOLOGY

REVISED SYLLABUS

M.Sc. (MICROBIOLOGY)

Effective from academic session 2015-2016



H.N.B. Garhwal
University
(A Central University)
Srinagar-Garhwal,
Uttarakhand

SCHOOL OF LIFE SCIENCES PAPER CODES PROGRAMME- M.Sc. MICROBIOLOGY

M.Sc. I Semester

Code	Paper	Credits				MM
		L	T	P	C	
SLS/MIC/C001	General Microbiology	4	0	0	4	100
SLS/MIC/C002	Fundamentals of Biochemistry	4	0	0	4	100
SLS/MIC/C003	Cell Biology	4	0	0	4	100
SLS/MIC/C004	Molecular Biology and Microbial Genetics	4	0	0	4	100
SLS/MIC/C005	Laboratory Course-I	0	0	3	3	100
SLS/MIC/C006	Laboratory Course-II	0	0	3	3	100
		Total			600	

Core Credits= 22 M.Sc. II Semester

Code	Paper	Credits				MM
		L	T	P	C	1
SLS/MIC/C007	Microbial Physiology and Metabolism	4	0	0	4	100
SLS/MIC/C008	Immunology	4	0	0	4	100
SLS/MIC/C009	Biological Techniques	4	0	0	4	100
SLS/MIC/C010	Recombinant DNA Technology	4	0	0	4	100
SLS/MIC/C011	Laboratory Course-I	0	0	3	3	100
SLS/MIC/C012	Laboratory Course-II	0	0	3	3	100
		Total			600	

Core Credits= 22 with additional 03 Credits of Self Study* M.Sc. III Semester

Code	Paper		Cı	MM		
		L	T	P	C	
SLS/MIC/C013	Medical Microbiology	4	0	0	4	100
SLS/MIC/C014	Industrial Microbiology	4	0	0	4	100
SLS/MIC/C015	Laboratory Course-I	0	0	3	3	100
SLS/MIC/E01A	Food and Dairy Microbiology	3	0	0	3	100
SLS/MIC/E01B	Drug Designing and Nanobiotechnology	3	0	0	3	100
SLS/MIC/E01C	Genomics and Proteomics	3	0	0	3	100
SLS/MIC/E01D	Epidemiology Bioprocess	3	0	0	3	100
SLS/MIC/E01E	Technology Environmental	3	0	0	3	100
SLS/MIC/E01F	Microbiology	3	0	0	3	100
SLS/MIC/E02A	Agricultural Microbiology	3	0	0	3	100
SLS/MIC/E02B	Microbial Diversity	3	0	0	3	100
SLS/MIC/E02C	Pharmaceutical Microbiology	3	0	0	3	100
SLS/MIC/E02D	Infection and Immunity	3	0	0	3	100
SLS/MIC/E02E	Intellectual Property Rights	3	0	0	3	100
SLS/MIC/E02F	Research Methodology	3	0	0	3	100
SLS/MIC/E003	Laboratory Course-II	0	0	3	3	100
		Total				600

Total Credits = 20 (Core Credits= 11+ Elective Credits= 09) with additional 03 Credits of Self Study*

M.Sc. IV Semester

Code	Paper		MM			
		L	T	P	C	
SLS/MIC/E004	Dissertation	0	0	10	10	200
		Total				200

Total Credits = 10 with additional 03 Credits of Self Study*

Grand Total: Core Credits 55+ Elective Credits 19= 74

- * With a total of 09 Credits (3+3+3 Credits in II, III and IV semester) of Self Study (2
 - Seminars equivalent to 2 Sessional Tests plus one End term written examination). Maximum Marks for each paper is 100 (Sessional Tests-40 + End Term Test- 60).
- ** 01 Credit= 01 hour of lecture/instructions per week; 01 Credit course= 15 hours of lectures per semester.
- *** 03 hours of laboratory course shall be considered equivalent to 01 hour of lecture.

Attested

Dolphin (P.GV Institute of Bio-Medical & Natural Sciences