

AMITY UNIVERSITY RAJASTHAN

PROGRAMME STRUCTURE (Proposed)

M.Sc. - MICROBIAL TECHNOLOGY

FIRST SEMESTER

Course Code	Course Title	Lectures(L) Hours per week	Tutorial (T) Hours per week	Practical (P) Hours per week	Total Credits
101	Bacteriology & Virology	3	-	-	3
102	Mycology & Phycology	3	-	-	3
103	Biochemistry and Microbial Physiology	3	1	-	4
104	Molecular Biology	3	-	-	3
111	Elective-I -Agricultural Microbiology	3	1	-	4
112	IPR, Biosafety and Bioethics				
113	Food and Dairy Microbiology				
121	Microbiology Practical-I	-	-	6	3
122	Biochemistry & Molecular Biology Practical	-	-	6	3
131	Communication Skills - I	1	-	-	1
132	Behavioural Science - I	1	-	-	1
133	Foreign Language - I	2	-	-	2
134	French				
135	German				
136	Spanish				
	Chinese				
	TOTAL				27

SECOND SEMESTER

Course Code	Course Title	Lectures(L) Hours per week	Tutorial (T) Hours per week	Practical (P) Hours per week	Total Credits
201	Environmental Microbiology	3	-	-	3
202	Immunology	3	1	-	4
203	Enzymology	3	-	-	3
204	Fermentation Technology	3	-	-	3
211	Elective-II -Industrial Microbiology	3	1	-	4
212	Medical Microbiology				
213	Plant Microbe Interaction				
214	Drug Discovery ,Design & Development				
221	Microbiology Practical –II	-	-	6	3
222	Immunology & Enzymology Practical	-	-	6	3
231	Communication Skills – II	1	-	-	1
232	Behavioural Science – II	1	-	-	1
233	Foreign Language – II	2	-	-	2
234	French				
235	German				
236	Spanish				
	Chinese				
	TOTAL				27

Term Paper Topic Distribution before Summer Vacations

THIRD SEMESTER

Course Code	Course Title	Lectures(L) Hours per week	Tutorial (T) Hours per week	Practical (P) Hours per week	Total Credits
301	Recombinant DNA Technology	3	-	-	3
302	Nanobiotechnology	2	-	-	2
303	Biological Techniques & Bioinstrumentation	2	1	-	3
304	Biostatistics	2	-	-	2
311	Elective-III – Genetic Modifications	3	1	-	4
312	Plant Tissue Culture				
313	Bioinformatics				
314	Industrial Safety & Management				
321	Microbiology Practical-III	-	-	6	3
322	Biological Techniques Practical	-	-	6	3
323	Term Paper (Evaluation)	-	-	-	4
331	Communication Skills - III	-	-	-	1
332	Behavioural Science - III	-	-	-	1
333	Foreign Language - III	-	-	-	2
334	French				
335	German				
336	Spanish				
	Chinese				
	TOTAL				28

FOURTH SEMESTER

Course Code	Course Title	Lectures(L) Hours per week	Tutorial (T) Hours per week	Practical (P) Hours per week	Total Credits
401	Research Project & Dissertation	-	-	-	30
	TOTAL	-	-	-	30

Total Credits 112