

Gondwana University, Gadchiroli
Faculty of Science & Technology
Two Years Regular Post Graduate Program: M.Sc. (Micro-Biology)
Semester-I

Course and Examination Scheme- 2023-2024

Course Code.	Name of Subject	Total Credit	Lectures (L)	Tutorials (T)	Practical (P)	Total Hrs	University Examination								
							Theory					Practical			
							UA	CA	Total mark	Duration of Exam (Hrs)	Min Passing	UA	CA	Total marks	Min Passing
01MSCMB01	Microbial Diversity and Evolution	04	04	--	--	04	80	20	100	3	40	--	--	--	--
01MSCMB02	Enzymology and Techniques	03	03	--	--	04	80	20	100	3	40	--	--	--	--
01MSCMB03	Commercial Microbiology	03	03	--	--	04	80	20	100	3	40	--	--	--	--
Elective- I (Any One)															
01MSCMB04	Microbial Physiology and Metabolism	04	04	--	--	04	80	20	100	3	40	--	--	--	--
01MSCMB05	Principle of Microbiology														
01MSCMB06	Pharmaceutical Microbiology														
01MSCMB07	Advanced Microbiology														
01MSCMB08	Agriculture, Dairy and Food Microbiology														
01MSCMB09	Research Methodology	04	04			04	80	20	100	3	40	--	--	--	--
	Practical -I	02	--	--	02	04	--	--	--	--	--	30	20	50	25
	Total	20	18		02	22	400	100	500	--	--	30	20	50	--

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Semester-II

Course and Examination Scheme- 2023-2024

Course Code.	Name of Subject	Total Credit	Lectures (L)	Tutorials (T)	Practical (P)	Total Hrs	University Examination									
							Theory					Practical				
							UA	CA	Total mark	Duration of Exam (Hrs)	Min Passing	UA	CA	Total marks	Min Passing	
02MSCMB01	Advance Techniques in Microbiology	04	04	--	--	04	80	20	100	3	40	--	--	--	--	
02MSCMB02	Membrane structure and signal transduction	03	03	--	--	04	80	20	100	3	40	--	--	--	--	
02MSCMB03	Microbiological Testing of industrial product	03	03	--	--	04	80	20	100	3	40	--	--	--	--	
Elective- I (Any One)																
02MSCMB04	Microbial Methods for environment management	04	04	--	--	04	80	20	100	3	40	--	--	--	--	
02MSCMB05	Bio safety and IPR															
02MSCMB06	Microbial Biotechnology															
02MSCMB07	Microbial Enzyme Technology															
02MSCMB08	Microbes in sustainable agriculture and Development															
02MSCMB09	* Industrial Training/ Field Project / Research Project	04	--	--	--	08	08	--	--	---	40	50	50	100	50	
	** Practical II	02	--	--	--	04	04	--	--	--	--	30	20	50	25	
	Total	20	14			12	28	320	80	400	--	--	80	70	150	--

* OJT- On Job Training with Seminar

** Practical II shall be based on core subjects