



Department of Microbiology

KOHSAR UNIVERSITY MURREE



MS Microbiology

Framework For MS Microbiology (2 Years Programme)

- Total numbers of Credit hours 30
- Duration 2 Years
- Semester duration 16-18 Weeks
- Semesters 04
- Course Load per Semester 9-18 Cr. hours
- Number of courses per semester 3-5

Semester	Course Code	Subjects	Credit Hours
First	MIC-5XX	Course I	3
	MIC-5XX	Course II	3
	MIC-5XX	Course III	3
	MIC-XXX	Elective I	3
		Total	12
Second	MIC-5XX	Course IV	3
	MIC-5XX	Course V	3
	MIC-5XX	Course VI	3
	MIC-XXX	Elective II	3
	Total		12
	Master Thesis		6
	Total		30

Department may offer core/elective courses from the given list (but not limited to) according to the availability of resources



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MS Program Microbiology		
List of Core Courses MS		
Course Code	Name of Course	Credits
MIC-501	Advances in Microbiology	3
MIC-502	Molecular Mechanism of Pathogenesis	3
MIC-503	Biosafety and Lab Management	3
MIC-504	Advances in Medical Microbiology	3
MIC-505	Computational Biology	3
MIC-506	Research Methodology	3
List of Elective Courses MS		
Course Code	Name of Course	Credits
MIC-507	Microbial Plant Disease	3
MIC-508	Advances in Microbial genetics	3
MIC-509	Advances in Immunology	3
MIC-510	Diagnostic Virology	3
MIC-511	Clinical Parasitology	3
MIC-512	Advances in Soil Microbiology	3
MIC-513	Advances in Molecular Biology	3
MIC -514	Epidemiology and Public Health	3
MIC -515	Molecular Mechanism of Diseases	3
MIC -516	Environmental Toxicology	3
MIC -517	Plant-Microbe Interaction	3
MIC -518	Environmental Pollution	3
MIC -519	Advances in Food Microbiology	3
MIC -520	Advances in Mycology	3
MIC-521	Management of Infectious waste	3
MIC-522	Microbial Enzyme technology	3
MIC-523	Bioprocessing	3



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MIC-524	Introduction to Biochemical Engineering	3
MIC-525	Molecular Mechanism of Pathogenesis	3
MIC-526	Renewable Bioenergy	3
MIC-527	Research Innovation and Entrepreneurship	3