



# Department of Microbiology

## KOHSAR UNIVERSITY MURREE



### Ph.D. Microbiology

#### Framework For PhD Microbiology

- Total numbers of Credit hours 24-30
- Duration as per HEC
- Semester duration 16-18 Weeks
- Semesters as per HEC
- Course Load per Semester 9-18 Cr. hours
- Number of courses per semester 3-6

Semester	Course Code	Subjects	Credit Hours
<b>First</b>	MIC-5XX	Course I	3
	MIC-5XX	Course II	3
	MIC-XXX	Elective I	3
		<b>Total</b>	<b>9</b>
<b>Second</b>	MIC-5XX	Course III	3
	MIC-5XX	Course IV	3
	MIC-XXX	Elective II	3
	<b>Total</b>		<b>9</b>
	<b>Ph.D. Thesis</b>		<b>9</b>
	<b>Total</b>		<b>27</b>

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



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<b>PhD Program Microbiology</b>		
<b>List of Core Courses PhD</b>		
<b>Course Code</b>	<b>Name of Course</b>	<b>Credits</b>
MIC-512	Advances in Microbiology	3
MIC-513	Molecular Mechanism of Pathogenesis	3
MIC-514	Biosafety and Lab Management	3(2,1)
MIC-515	Advances in Medical Microbiology	3
MIC-516	Computational Biology	3
MIC-517	Research Methodology	3
MIC-518	Seminar	
<b>List of Elective Courses PhD</b>		
<b>Course Code</b>	<b>Name of Course</b>	<b>Credits</b>
MIC-519	Microbial Plant Disease	3
MIC-520	Advances in Microbial genetics	3
MIC-521	Advances in Immunology	3
MIC-522	Diagnostic Virology	3(2,1)
MIC-523	Clinical Parasitology	3(2,1)
MIC-524	Advances in Soil Microbiology	3
MIC-611	Advances in Molecular Biology	3
MIC -612	Epidemiology and Public Health	3
MIC -613	Molecular Mechanism of Diseases	3
MIC -614	Environmental Toxicology	3
MIC -615	Plant Microbe Interaction	3
MIC -621	Environmental Pollution	3
MIC -622	Advances in Food Microbiology	3
MIC -623	Advances in Mycology	3
MIC-624	Management of Infectious waste	3