

Jinnah University for Women
Department of Microbiology
Courses Offered for Ph.D Program For Batch 2021-2022

<u>Course title</u>	<u>Course code</u>	<u>Credit hours</u>
1st Semester		
Proteomics & Genomics	MIC – 7301	3+0
Molecular Genetics	MIC – 7311	3+0
Vaccinology	MIC – 7321	3+0
Molecular Biology of Fungal Pathogenesis	MIC – 7331	3+0
Marine Natural Products	MIC – 7341	3+0
Research Planning and Report Writing	MIC- 7351	3+0
STUDENT HAS TO OPT 3 COURSES FROM 1ST SEMESTER		
2nd Semester		
Immunohaematology & Blood Banking	MIC – 7362	3+0
Pharmaceutical Microbiology	MIC – 7372	3+0
Industrial & Environmental Biotechnology	MIC – 7382	3+0
Advances in Immunotherapeutic	MIC – 7392	3+0
Bacteriophages & Bacteriocins	MIC – 7402	3+0
Medicinal Plants & Products	MIC – 7412	3+0
STUDENT HAS TO OPT 3 COURSES FROM 2ND SEMESTER		
Research Project		
LIST of ELECTIVE COURSES		
Food Production Management	MIC – 742X	3+0
Bioprocess Engineering of Food	MIC – 743X	3+0
Applied Biomolecular Technology for Biopharmaceutical and Biotechnology Industries	MIC-744X	3+0
Molecular Basis of Bacterial Pathogens	MIC-745X	3+0
Instrumentation and Analytical Techniques	MIC-746X	3+0
Seminars on Current advances in the Discipline	MIC – 747X	3+0 (1 Credit Hour for each Seminar)