

M.Sc. Microbiology Course Structure

| Semester | Course Title |
|---------------------|---|
| Semester I | Immunology |
| | General Microbiology |
| | Biochemistry |
| | Practical I (Based on Immunology, General Microbiology and Biochemistry) |
| | Bio-analytical Techniques (Seminar) |
| Semester | Course Title |
| Semester II | Genetic Engineering |
| | Molecular Biology |
| | Microbial Physiology |
| | Practical II (Based on Genetic Engineering Molecular Biology and Microbial Physiology) |
| | Biostatistics and Bioinformatics (Value Added Course) |
| Semester | Course Title |
| Semester III | Environmental and Agricultural Microbiology |
| | Medical Microbiology |
| | Fermentation Technology and Bioprocess Engineering |
| | Practical III (Based on Environmental and Agricultural Microbiology, Medical Microbiology and Fermentation Technology and Bioprocess Engineering) |
| | Intellectual Property Rights, Biosafety and Bioethics (Seminar) |
| Semester | Course Title |
| Semester IV | Research Thesis |

M.Sc. Biotechnology Course Structure

| Semester | Course Title |
|---------------------|--|
| Semester I | Immunology |
| | General Microbiology |
| | Biochemistry |
| | Practical I (Based on Immunology, General Microbiology and Biochemistry) |
| | Bio-analytical Techniques (Seminar) |
| Semester | Course Title |
| Semester II | Genetic Engineering |
| | Molecular Biology |
| | Advanced Cell Biology |
| | Practical II (Based on Genetic Engineering, Molecular Biology and Advanced Cell Biology) |
| | Biostatistics and Bioinformatics (Value Added Course) |
| Semester | Course Title |
| Semester III | Plant and Animal Biotechnology |

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|--------------------|---|
| | Genomics and Proteomics |
| | Fermentation Technology and Bioprocess Engineering |
| | Practical III (Based on Plant and Animal Biotechnology, Genomics and Proteomics and Fermentation Technology and Bioprocess Engineering) |
| | Intellectual Property Rights, Biosafety and Bioethics (Seminar) |
| Semester | Course Title |
| Semester IV | Research Thesis |