

| MS Biotechnology | | | | | | | | | | | |
|---------------------------|---|--------------|-------------|---------------------------|------------------------------------|---------------------------------------|--------------|-------------|--------------|--|--|
| YEAR 1 | | | | | | | | | | | |
| Semester (I) – Fall | | | | | Semester (II) - Spring | | | | Summer break | | |
| Course Code | Course | Credit Hours | Course Type | | Course Code | Course | Credit Hours | Course Type | | | |
| RMS-724 | Research Methodology and Biostatistics | 3(3+0) | C1 | | BTE-721/MIC-72 | Advances in Microbial Biotechnology | 3(3+0) | C4 | | | |
| MBS-721 | Advances in Cell and Molecular Biology | 3(3+0) | C2 | | MBS-711 | Current Trends in Research Techniques | 3(1+2) | C5 | | | |
| BTE-711 | Modern Biotechnology: Principles & Applications | 3(2+1) | C3 | | | Elective-II | 3 | E2 | | | |
| | Elective-I | 3(3+0) | E1 | | | Elective-III | 3 | E3 | | | |
| Total Credit Hours | | 12 | | Total Credit Hours | | 12 | | | | | |
| YEAR 2 | | | | | | | | | | | |
| Semester (III) – Fall | | | | | Semester (IV) - Spring | | | | Summer break | | |
| Course Code | Course | Credit Hours | Course Type | | Course Code | Course | Credit Hours | Course Type | | | |
| MBS-731 | Seminar | 2(2+0) | C5 | | BTE-799-2 | MS Research Work | 6(6+0) | | | | |
| BTE-799-1 | MS Research Work | 4(4+0) | | | | | | | | | |
| Total Credit Hours | | 6 | | | Total Credit Hours | | 6 | | | | |
| LIST OF ELECTIVES | | | | | | | | | | | |
| Semester – Fall | | | | | Semester – Spring | | | | Summer break | | |
| Course Code | Course | Credit Hours | Course Type | | Course Code | Course | Credit Hours | Course Type | | | |
| BTE-701 | Advances in Industrial Biotechnology | 3 | E | | BTE-703 | Medicinal Plant Biotechnology | 3 | E | | | |
| GEN-713 | Advances in OMIC studies | 3 | E | | BTE-704 | Advances in Fermentation Technology | 3 | E | | | |
| BTE-702 | Advances in Health Biotechnology | 3 | E | | BTE-705 | Applications of Nano-biotechnology | 3 | E | | | |
| MIC-712 | Advances in Immunology | 3 | E | | BTE-706 | Cell and Tissue culture | 3 | E | | | |
| | | | | BTE-707 | Metabolic Engineering and Biofuels | 3 | E | | | | |