

| Course Module and Scheme                |   |   |   |   |           |              |
|---|---|---|---|---|-----------|--------------|
| M.Sc Biomedical Science -1 Year Program |   |   |   |   |           |              |
| Semester                                | Course Name                                       | L | T | P | C         | Lecture Type |
| I                                       | Metabolism of Biomolecules                        | 4 | 0 | 0 | 4         | PP           |
| I                                       | Microbiology                                      | 4 | 0 | 0 | 4         | PP           |
| I                                       | Recent Trends in Biological Research              | 4 | 0 | 0 | 4         | PP           |
| I                                       | Advanced Biomedical Science Lab-II                | 0 | 0 | 4 | 2         | PP           |
| I                                       | Elective -I                                       | 3 | 0 | 0 | 3         | PR           |
| I                                       | Campus to Corporate                               | 3 | 0 | 0 | 3         | PP           |
| I                                       | Creativity, Innovation and Entrepreneurship & IPR | 1 | 0 | 0 | 1         | PR           |
|   | <b>Total credit</b>                               |   |   |   | <b>21</b> |              |
|   |   |   |   |   |           |              |
| Semester                                | Course Name                                       | L | T | P | C         | Lecture Type |
| II                                      | Medical and Pharmaceutical Microbiology           | 4 | 0 | 0 | 4         | PP           |
| II                                      | Biotechnology And Genetic Engineering             | 4 | 0 | 0 | 4         | PP           |
| II                                      | Immunology  | 4 | 0 | 0 | 4         | PP           |

|    |                                    |   |   |   |           |    |
|----|------------------------------------|---|---|---|-----------|----|
| II | Pharmacology and Toxicology        | 3 | 0 | 0 | 3         | PP |
| II | Advanced Biomedical Science Lab-II | 0 | 0 | 4 | 2         | PR |
| II | Elective - II                      | 3 | 0 | 0 | 3         | PP |
| II | Professional Communication         | 1 | 0 | 2 | 2         | PR |
| II | Review Writing                     | 1 | 0 | 0 | 1         | PR |
|    | <b>Total credit</b>                |   |   |   | <b>23</b> |    |

|  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

|  |  |          |          |          |          |                     |
|--|--|----------|----------|----------|----------|---------------------|
|  | <b>List of Electives</b>                   |          |          |          |          |                     |
|  | <b>Course Name</b>                         | <b>L</b> | <b>T</b> | <b>P</b> | <b>C</b> | <b>Lecture Type</b> |
|  | Advanced Microbiology                      | 3        | 0        | 0        | 3        | PP                  |
|  | Structural Biology and Vaccine Development | 3        | 0        | 0        | 3        | PP                  |
|  | Animal behavior and Environmental biology  | 3        | 0        | 0        | 3        | PP                  |
|  | Plant – Pathogen interaction               | 3        | 0        | 0        | 3        | PP                  |

|                     |  |          |          |          |          |                     |
|---------------------|--|----------|----------|----------|----------|---------------------|
| <b>Elective - I</b> | Genetics: principle and advancements     | 3        | 0        | 0        | 3        | PP                  |
|                     | Bioanalytical and Biophysical Techniques | 3        | 0        | 0        | 3        | PP                  |
|                     |  |          |          |          |          |                     |
| <b>Elective-II</b>  | <b>Course Name</b>                       | <b>L</b> | <b>T</b> | <b>P</b> | <b>C</b> | <b>Lecture Type</b> |
|                     | Bioethics, Bio-safety and IPR            | 3        | 0        | 0        | 3        | PP                  |
|                     | Computational Biology                    | 3        | 0        | 0        | 3        | PP                  |
|                     | Pharmaceutical Biotechnology             | 3        | 0        | 0        | 3        | PP                  |
|                     | Biophysics                               | 3        | 0        | 0        | 3        | PP                  |
|                     | Biochemical Correlations In Diseases     | 3        | 0        | 0        | 3        | PP                  |
|                     | Industrial Aspects in Life Science       | 3        | 0        | 0        | 3        | PP                  |