

Scheme of the Programme

First Semester

| S. No. | Course code | Course title | L | T | P | C |
|--------|---------------------|--|---|---|----|---|
| 1. | SIAL BT_01_1_01_CC | Principles of Genetics and Molecular Biology | 5 | 0 | 0 | 5 |
| 2. | SIAL BT_01_1_02_CC | Biomolecules and Metabolism | 4 | 0 | 0 | 4 |
| 3. | SIAL BT_01_1_03_CC | Cell Biology | 5 | 0 | 0 | 5 |
| 4. | SIAL BT_01_1_04_CC | Practical I | 0 | 0 | 12 | 6 |
| 5. | SIAL BT_01_1_01_GEC | Principle of Biotechnology | 4 | 0 | 0 | 4 |

Second Semester

| S. No. | Course code | Course title | L | T | P | C |
|--------|---|--|---|---|---|---|
| 1. | SIAL BT_01_2_05_CC | Tools and Techniques in Biotechnology | 4 | 0 | 0 | 4 |
| 2. | SIAL BT_01_2_06_CC | Microbial Process Engineering and Technology | 4 | 0 | 0 | 4 |
| 3. | SIAL BT_01_2_07_CC | Immunology | 4 | 0 | 0 | 4 |
| 4. | SIAL BT_01_2_08_CC | Practical II | 0 | 0 | 8 | 4 |
| 5. | SIAL BT_01_1_02_GEC | Bioinformatics and Biostatistics (compulsory) | 0 | 4 | 0 | 4 |
| 6. | Any of the following two courses | | 4 | 0 | 0 | 4 |
| | SIAL BT_01_2_01_DCEC | Genomics and Proteomics | | | | |
| | SIAL BT_01_2_02_DCEC | Microbial growth, enzyme and fermentation kinetics | | | | |

Third Semester

| S. No. | Course code | Course title | L | T | P | C |
|--------|---|------------------------------------|---|---|----|---|
| 1. | SIAL BT_01_3_09_CC | Cell and Tissue Culture | 5 | 0 | 0 | 5 |
| 2. | SIAL BT_01_3_10_CC | Genetic Engineering | 5 | 0 | 0 | 5 |
| 3. | SIAL BT_01_3_11_CC | Seminar Paper | 0 | 4 | 0 | 4 |
| 4. | SIAL BT_01_3_12_CC | Practical III | 0 | 0 | 12 | 6 |
| 5. | Any of the following two courses | | 4 | 0 | 0 | 4 |
| | SIAL BT_01_3_03_DCEC | Agricultural Biotechnology and IPR | | | | |
| | SIAL BT_01_3_04_DCEC | Medical Biotechnology | | | | |

Fourth Semester

| S. No. | Course code | Course title | L | T | P | C |
|--------|----------------------|--------------|---|---|--------|--------|
| 1. | SIAL BT_01_4_01_SEEC | Dissertation | 0 | 0 | 2 4 | 2 4 |