

BSc in Biotechnology

Course Short Code

BT

Course Year

4

Course Offering: 01

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## **B.Sc. in Biotechnology, Year 4, Full-Time**

**Major** BT-Biotechnology

Students must register for all modules within the relevant pathway

### **Core Modules**

| <b>Module Code</b> | <b>Module Title</b>                     | <b>Module Credits</b> | <b>Semester</b> |
|--------------------|---|-----------------------|-----------------|
| BIO1013            | Immunology & Immunoanalysis             | 5                     | Semester 1      |
| BIO1019            | Literature Review & Experimental Design | 7.5                   | Semester 1      |
| BTE1014            | Industrial Bioprocessing                | 5                     | Semester 1      |
| BTE1015            | Proteins, Proteomics & Biopharma        | 5                     | Semester 1      |
| BTE1021            | Animal Cell Biotechnology               | 5                     | Semester 2      |

**All Pathways/Students choose ONE of the following two options**

| <b>Module Code</b> | <b>Module Title</b>                       | <b>Module Credits</b> | <b>Semester</b> |
|--------------------|---|-----------------------|-----------------|
| BTE1020            | Bioreaction Engineering                   | 7.5                   | Semester 1      |
| GCB1013            | Current Topics in Genetics & Cell Biology | 7.5                   | Semester 1      |

**Biotechnology & Research Pathway, Select 25 Credits**

| <b>Module Code</b> | <b>Module Title</b>                  | <b>Module Credits</b> | <b>Semester</b> |
|--------------------|--------------------------------------|-----------------------|-----------------|
| BIO1020            | Research Project                     | 15                    | Semester 2      |
| BTE1017            | Commercial Biotechnology & Biopharma | 5                     | Semester 2      |
| GCB1002            | Genetics of Human Inheritance        | 5                     | Semester 2      |

**Biopharma Pathway, Select 20 Credits Optional Modules**

| <b>Module Code</b> | <b>Module Title</b>                                | <b>Module Credits</b> | <b>Semester</b> |
|--------------------|--|-----------------------|-----------------|
| BTE1017            | Commercial Biotechnology & Biopharma               | 5                     | Semester 2      |
| BTE1018            | Biopharmaceutical Industry Regulation & Management | 5                     | Semester 2      |
| BTE1019            | Biopharmaceutical Facility Design & Operation      | 5                     | Semester 2      |
| BTE1023            | Formulation & Delivery of Biopharmaceuticals       | 5                     | Semester 2      |
| GCB1002            | Genetics of Human Inheritance                      | 5                     | Semester 2      |

**Biopharma Pathway, Select an additional 5 Credits from ONE of the below**

| <b>Module Code</b> | <b>Module Title</b>             | <b>Module Credits</b> | <b>Semester</b> |
|--------------------|---------------------------------|-----------------------|-----------------|
| BIO1016            | Advanced Bioanalysis Laboratory | 5                     | Semester 2      |
| BTE1022            | Bioprocessing Laboratory        | 5                     | Semester 2      |