



IBADAT INTERNATIONAL UNIVERSITY, ISLAMABAD

Bachelor of Science in Biotechnology (BS-BT)

SPRING SESSION 2022

| Semester I | | CR. HR |
|--------------|---------------------------------------|--------|
| 1 | Foundation of English | 3 |
| 2 | Introduction to Biochemistry | 4 |
| 3 | Psychology | 3 |
| 4 | Mathematics | 3 |
| 5 | Physical Education and Sports | 3 |
| | | 16 |
| Semester III | | |
| 1 | Communication Skills | 3 |
| 2 | Pakistan Study | 3 |
| 3 | Islamiat | 3 |
| 4 | Introductory genetics | 3 |
| 5 | Biostatistics | 3 |
| 6 | Introduction to Biotechnology | 3 |
| | | 18 |
| Semester V | | |
| 1 | Biotechnology and Entrepreneurship | 3 |
| 2 | Molecular Biology-I | 4 |
| 3 | Animal Biotechnology | 3 |
| 4 | Plant Biotechnology | 3 |
| 5 | Ecosystem and Environment | 3 |
| | | 16 |
| Semester VII | | |
| 1 | Microbial Biotechnology | 3 |
| 2 | Food Biotechnology | 3 |
| 3 | Genetic Resources & Conservation | 3 |
| 4 | Principles of Biochemical Engineering | 3 |
| 5 | Review Report/Research | 4 |
| | | 16 |

| Semester II | | CR. HR |
|---------------|---|--------|
| 1 | English Technical Writing and Comprehension | 3 |
| 2 | Cell Biology-I | 3 |
| 3 | Economics | 3 |
| 4 | Biomathematics | 3 |
| 5 | Urban and town Planning | 3 |
| | | 15 |
| Semester IV | | |
| 1 | Biosafety and Bioethics | 3 |
| 2 | Cell Biology-II | 3 |
| 3 | Health Biotechnology | 4 |
| 4 | Metabolism-I | 4 |
| 5 | Biological Diversity | 3 |
| | | 17 |
| Semester VI | | |
| 1 | Research Methodology | 3 |
| 2 | Industrial Biotechnology | 3 |
| 3 | Immunology | 4 |
| 4 | Recombinant DNA Technology | 4 |
| 5 | Bioinformatics and System Biology | 3 |
| | | 17 |
| Semester VIII | | |
| 1 | Genomics, Transcriptomics & Proteomics | 3 |
| 2 | Environmental Biotechnology 3 | 3 |
| 3 | Agriculture Biotechnology | 3 |
| 4 | Cell and Tissue Culture | 4 |
| 5 | Research Project/ Review | 4 |
| | | 17 |

Fee Schedule

| Semester | Credit Hours | Tuition Fee | Admission Fee | Semester Contribution | Exam Fee | Total |
|--------------------|--------------|-------------|---------------|-----------------------|----------|----------------|
| | | Rs. | | | | |
| 1 | 18 | 97200 | 20,000 | 11,500 | 7,500 | 136,200 |
| 2 | 18 | 97200 | | 11,500 | 7,500 | 116,200 |
| 3 | 18 | 97200 | | 11,500 | 9,000 | 117,700 |
| 4 | 17 | 91800 | | 11,500 | 7,500 | 110,800 |
| 5 | 16 | 86400 | | 11,500 | 7,500 | 105,400 |
| 6 | 17 | 91800 | | 11,500 | 7,500 | 110,800 |
| 7 | 16 | 86400 | | 11,500 | 7,500 | 105,400 |
| 8 | 17 | 91800 | | 11,500 | 6,000 | 109,300 |
| Grand Total | 137 | | | | | 911,800 |

1. **Tuition Fee** based on number of Credit Hours taken. Each Credit Hour Costs Rs.5400/-

2. **Contribution** includes cost of Labs, Library and Hospital Facility etc.

3. **Exam Fee** based on number of courses taken. Each Course costs Rs. 1500/-

4. **Admission Charges:** Rs. 20000/-

5. **University reserves the right to change the fee structure at any time.**