**Bachelor of Technology (Biotechnology Engineering)**

**Non-Credit-Based**

***SCHEME OF STUDIES/EXAMINATIONS***

**Semester – V**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No.** | **Course No.** | **Course Title** | **Teaching Schedule** | **Allotment of Marks** | **Duration of Exam****(Hrs.)** |
| **L** | **T** | **P** | **Hours/Week** | **Sessional** | **Theory**  | **Practical** | **Total** |  |
| 1 | BT-301N | Recombinant DNA Technology | 4 | 0 | 0 | 4 | 25 | 75 | 0 | 100 | 3 |
| 2 | BT-303N | Bioreactor Analysis & Design | 3 | 0 | 0 | 3 | 25 | 75 | 0 | 100 | 3 |
| 3 | BT-305N | Bioprocess Engineering | 3 | 1 | 0 | 4 | 25 | 75 | 0 | 100 | 3 |
| 4 | BT-307N | Downstream Processing | 3 | 1 | 0 | 4 | 25 | 75 | 0 | 100 | 3 |
| 5 | BT-309N | Molecular Diagnostic Techniques & Healthcare Biotechnology | 3 | 0 | 0 | 3 | 25 | 75 | 0 | 100 | 3 |
| 6 | CSE-304N | Essentials of Information Technology | 3 | 1 | 0 | 4 | 25 | 75 | 0 | 100 | 3 |
| 7 | BT-311N | Recombinant DNA Technology Lab | 0 | 0 | 3 | 3 | 40 | 0 | 60 | 100 | 3 |
| 8 | BT-313N | Fermentation & Downstream Processing Lab | 0 | 0 | 3 | 3 | 40 | 0 | 60 | 100 | 3 |
| 9 | BT-315N | Diagnostic Techniques Lab | 0 | 0 | 3 | 3 | 40 | 0 | 60 | 100 | 3 |
| 10 | CSE-314N | Information Technology Lab | 0 | 0 | 2 | 2 | 40 | 0 | 60 | 100 | 3 |
| 11 | BT-317N | Industrial Training (Viva-Voce)\* | 0 | 0 | 2 | 2 | 40 | 0 | 60 | 100 |  |
|  |  | **Total** | **19** | **3** | **13** | **35** | **350** | **450** | **300** | **1100** |  |

\**The performance of the student will be evaluated after the presentation delivered and the report submitted by him/her related to*

*Industrial training undertaken after IVth semester.*

**Bachelor of Technology (Biotechnology Engineering)**

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***SCHEME OF STUDIES/EXAMINATIONS***

**Semester – VI**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No.** | **Course No.** | **Course Title** | **Teaching Schedule** | **Allotment of Marks** | **Duration of Exam****(Hrs.)** |
| **L** | **T** | **P** | **Hours/Week** | **Theory** | **Sessional** | **Practical** | **Total** |
| 1 | BT-302N | Microbial Biotechnology | 3 | 1 | 0 | 4 | 75 | 25 | 0 | 100 | 3 |
| 2 | BT-304N | Plant Biotechnology | 3 | 1 | 0 | 4 | 75 | 25 | 0 | 100 | 3 |
| 3 | BT-306N | Animal Biotechnology | 3 | 0 | 0 | 3 | 75 | 25 | 0 | 100 | 3 |
| 4 | BT-308N | Principles of Biostatistics | 3 | 0 | 0 | 3 | 75 | 25 | 0 | 100 | 3 |
| 5 | BT-310N | Environmental Biotechnology | 3 | 1 | 0 | 4 | 75 | 25 | 0 | 100 | 3 |
| 6 | BT-312N | Food Biotechnology | 3 | 0 | 0 | 3 | 75 | 25 | 0 | 100 | 3 |
| 7 | BT-314N | Animal Cell Culture Lab | 0 | 0 | 3 | 3 | 0 | 40 | 60 | 100 | 3 |
| 8 | BT-316N | Plant Cell Culture Lab | 0 | 0 | 3 | 3 | 0 | 40 | 60 | 100 | 3 |
| 9 | BT-318N | Food & Environmental Biotechnology Lab | 0 | 0 | 3 | 3 | 0 | 40 | 60 | 100 | 3 |
|  |  | **Total** | **18** | **3** | **9** | **30** | **450** | **270** | **180** | **900** |  |

***Note:*** *All the students have to undergo 4-6 weeks industrial training after VIth semester and it will be evaluated in VIIth semester.*