**M.D. UNIVERSITY, ROHTAK**

 **SCHEME OF STUDIES AND EXAMINATION**

 **B.Tech (Biotechnology) Scheme effective from 2019-20**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Course Code** | **Course Title** | **Hours per week** | **Total Contact Hrs. per week** | **Credit** | **Examination Schedule (Marks)** | **Duration of Exam (Hours)** |
| **L** | **T** | **P** | **Mark of** **Class work** | **Theory** | **Practical** | **Total** |
| 1 | BSC-BIO-201G | Biology For Engineers | 2 | 1 | 0 | 3 | 3 | 25 | 75 |  | 100 | 3 |
| 2 | ESC-BT-203G | Thermodynamicsof Bioprocesses | 3 | 1 | 0 | 4 | 4 | 25 | 75 |   | 100 | 3 |
| 3 | PCC-BT 205 G | Biochemistry | 3 | 0 | 0 | 3 | 3 | 25 | 75 |   | 100 | 3 |
| 4 | PCC-BT 207 G | Cell Biology | 3 | 0 | 0 | 3 | 3 | 25 | 75 |   | 100 | 3 |
| 5 | PCC-BT 209 G | Genetics | 3 | 0 | 0 | 3 | 3 | 25 | 75 |   | 100 | 3 |
| 6 | HSMC-211G | English-III | 3 | 0 | 0 | 3 | 3 | 25 | 75  |  | 100 | 3 |
| 7 | \*MC -106G | Environment Science | 3 | 0 | 1 | 4 | 0 | 25 | 75  | - | - | 3 |
| 8 | LC-BT 213 G | Biochemistry Lab. | 0 | 0 | 3 | 3 | 1.5 | 25 |  | 25 | 50 | 3 |
| 9 | LC-BT 215 G | Cell Biology Lab | 0 | 0 | 3 | 3 | 1.5 | 25 |  | 25 | 50 | 3 |
| **Total** | 22 |  |  |  | 700 |  |

**SEMESTER 3rd**

**MC-106G** is a mandatory non –credit course in which the students will be required passing marks in theory.

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Course Code** | **Course Title** | **Hours per week** | **Total Contact Hrs. per week** | **Credit** | **Examination Schedule (Marks)** | **Duration of Exam (Hours)** |
| **L** | **T** | **P** | **Mark of** **Class work** | **Theory** | **Practical** | **Total** |
| 1 | PCC-BT 202 G | Microbiology | 3 | 0 | 0 | 3 | 3 | 25 | 75 |  | 100 | 3 |
| 2 | PCC-BT 204 G | Molecular Biology | 3 | 0 | 0 | 3 | 3 | 25 | 75 |   | 100 | 3 |
| 3 | PCC-BT 206 G | Immunology | 3 | 0 | 0 | 3 | 3 | 25 | 75 |   | 100 | 3 |
| 4 | ESC-BT-208G  | Bioprocess Engineering | 3 | 0 | 0 | 3 | 3 | 25 | 75 |   | 100 | 3 |
| 5 | BSC-BS 210 G | Biostatistics | 3 | 1 | 0 | 4 | 4 | 25 | 75 |   | 100 | 3 |
| 6 | HSMC-02G | Organizational Behaviour | 3 | 0 | 0 | 3 | 3 | 25 | 75  |  | 100 | 3 |
| 7 | LC-BT 212 G | Microbiology Lab. |  | 0 | 3 | 3 | 1.5 | 25 |   | 25 | 50 | 3 |
| 8 | LC-BT 214 G | Molecular Biology Lab. | 0 | 0 | 3 | 3 | 1.5 | 25 |  | 25 | 50 | 3 |
| 9 | LC-BT 216 G | Immunology Lab | 0 | 0 | 3 | 3 | 1.5 | 25 |  | 25 | 50 | 3 |
| **Total** | 23.5 |  |  |  | 750 |  |

**SEMESTER 4TH**

**NOTE**: At the end of 4th semester each student has to undergo Practical Training of 4/6 weeks in an Industry/ Institute/ Professional Organization/ Research Laboratory/ training centre etc. and submit typed report along with a certificate from the organization & its evaluation shall be carried out in the 5th Semester.