

**Swami Rama Himalayan University**  
**School of Biosciences**  
**Teaching & Evaluation Scheme**  
**B.Sc. (H) Biotechnology/B.Sc Biotechnology with Research-(NEP2020) program, Semester-III**  
**Academic Year-2024-25**

|                                   |            |                                                                 | Teaching              |   |              | Assessment |      |       |              |     |       | Course Attributes |               |                  |                   |                 |                              |             |                     |                               |
|-----------------------------------|------------|-----------------------------------------------------------------|-----------------------|---|--------------|------------|------|-------|--------------|-----|-------|-------------------|---------------|------------------|-------------------|-----------------|------------------------------|-------------|---------------------|-------------------------------|
|                                   |            |                                                                 | Hours/Periods/Credits |   | Total Credit | Sessional  |      |       | End Semester |     |       | Course Attributes |               |                  |                   |                 |                              |             |                     |                               |
| Course Category                   | Code       | Course name                                                     | L                     | T | P            | C          | SE I | SE II | DDA          | ESE | Total | Duration / Mode   | Employability | Entrepreneurship | Skill Development | Gender Equality | Environment & Sustainability | Human Value | Professional Ethics | Sustainable Development Goals |
|                                   |            |                                                                 |                       |   |              |            |      |       |              |     |       |                   |               |                  |                   |                 |                              |             |                     |                               |
| Theory                            |            |                                                                 |                       |   |              |            |      |       |              |     |       |                   |               |                  |                   |                 |                              |             |                     |                               |
| Major Core                        | BBTC 231   | Molecular Biology                                               | 3                     | 0 | 0            | 3          | 25   | 25    | 50           | 100 | 200   | 3 h/Theory        | ✓             | ✓                | ✓                 |                 | ✓                            | ✓           | ✓                   | 2, 3, 4, 6, 9,10              |
| Major Core                        | BBTC 232   | Developmental Biology                                           | 3                     | 0 | 0            | 3          | 25   | 25    | 50           | 100 | 200   | 3h/Theory         |               |                  |                   | ✓               |                              | ✓           | ✓                   | 2, 4, 9, 12, 13, 15           |
| Minor Core                        | BBTC 233   | Chemistry-I                                                     | 3                     | 0 | 0            | 3          | 25   | 25    | 50           | 100 | 200   | 3 h/Theory        | ✓             |                  | ✓                 |                 |                              |             |                     | 3,4,6,9,12,13                 |
| Open Elective (Multidisciplinary) | *          | To be opted from the list                                       | 3                     | 0 | 0            | 3          | 25   | 25    | 50           | 100 | 200   | 3 h/Theory        |               |                  |                   |                 |                              |             |                     |                               |
|                                   | BBTOE 231  | Bioethics and Biosafety                                         | 3                     | 0 | 0            | 3          | 25   | 25    | 50           | 100 | 200   | 3 h/Theory        | ✓             | ✓                |                   | ✓               |                              | ✓           | ✓                   | 3,4,8,9,12,13,16,17           |
|                                   | BBTOE 232  | Principles of marketing                                         | 3                     | 0 | 0            | 3          | 25   | 25    | 50           | 100 | 200   | 3h/Theory         | ✓             | ✓                |                   | ✓               |                              | ✓           | ✓                   | 4,8,9,10,12,17                |
| Skill enhancement course          | BBTSE 231  | Microbial Quality Control in Food and Pharmaceutical Industries | 3                     | 0 | 0            | 3          | 25   | 25    | 50           | 100 | 200   | 3h/Theory         | ✓             |                  | ✓                 |                 | ✓                            |             | ✓                   | 3,4,6,8,9,12,13               |
| Ability enhancement course        | AECC 231   | Environmental Sciences-II                                       | 2                     | 0 | 0            | 2          | 25   | 25    | 25           | 100 | 200   | 2h/Theory         |               |                  |                   |                 | ✓                            |             | ✓                   | 3,4,6,11,12,13,14,15          |
| Practical                         |            |                                                                 |                       |   |              |            |      |       |              |     |       |                   |               |                  |                   |                 |                              |             |                     |                               |
| Major Core                        | BBTPC 231  | Lab course based on course BBTC 231                             | 0                     | 0 | 2            | 1          | 25   | 25    | 50           | 100 | 200   | 2h/Practical      | ✓             |                  |                   | ✓               | ✓                            |             | ✓                   | 3,4,9,12,13                   |
| Major Core                        | BBPTC 232  | Lab course based on course BBTC 232                             | 0                     | 0 | 2            | 1          | 25   | 25    | 50           | 100 | 200   | 2h/Practical      |               | ✓                | ✓                 | ✓               |                              | ✓           | ✓                   | 3,4,5,9, 12,15                |
| Minor core                        | BBP TC 232 | Lab course based on course BBTC 233                             | 0                     | 0 | 2            | 1          | 25   | 25    | 50           | 100 | 200   | 2h/Practical      | ✓             |                  | ✓                 |                 | ✓                            |             | ✓                   | 4,6,9,12,13                   |
| Total Credits                     |            |                                                                 | 17                    | 0 | 6            | 20         |      |       |              |     | 1800  |                   |               |                  |                   |                 |                              |             |                     |                               |

L – Lecture, T – Tutorial, P – Practical, C – Credit