

| C-26 Biotechnology template |                                          |          |              |                                          |         |             |                                             |          |                    |                                                                                       |            |             |                                  |
|-----------------------------|------------------------------------------|----------|--------------|------------------------------------------|---------|-------------|---------------------------------------------|----------|--------------------|---------------------------------------------------------------------------------------|------------|-------------|----------------------------------|
| Ist Year                    |                                          |          | III semester |                                          |         | IV Semester |                                             |          | V Semester         |                                                                                       |            | VI Semester |                                  |
| Sub_ Code                   | Sub_Name                                 | Cre dits | Sub_ Code    | Sub_Name                                 | Credits | Sub_ Code   | Sub_Name                                    | Cred its | Sub_ Code          | Sub_Name                                                                              | Credit s   | Sub _ Cod   | Sub_ Nam e                       |
| HU-101                      | English                                  | 2.0      | BT-301       | Biochemistry                             | 3.0     | BT-401      | Plant Biotechnology                         | 3.0      | ME-501             | Techno Entrepreneurship & Startups                                                    | 3.00       | 601         | Industrial Training (20 credits) |
| SC-102                      | Engineering Mathematics                  | 3.0      | BT-302       | Molecular Biotechnology                  | 3.0     | BT-402      | Bioinformatics                              | 3.0      | BT-502             | Environmental Biotechnology                                                           | 3.0        |             |                                  |
| SC-103                      | Engineering Physics                      | 3.0      | BT-303       | Genetics                                 | 3.0     | BT-403      | Advanced Biological Instrumentation         | 3.0      | BT-503             | Good Laboratory Practice                                                              | 3.0        |             |                                  |
| SC-104                      | Engineering Chemistry                    | 3.0      | BT-304       | Microbiology                             | 3.0     | BT-404      | Animal Tissue Culture                       | 3.0      | BT-504A<br>SC-504C | Industrial Microbiology & Fermentation Technology<br>Advanced Engineering Mathematics | 3.0        |             |                                  |
| BT-105                      | Fundamentals of Biology                  | 3.0      | CS-305       | Fundamentals of AI/ML                    | 3.00    | BT-405      | Digital Manufacturing                       | 3.00     | BT-505A<br>ME-505B | Immunology<br>Systems Engineering                                                     | 3.0<br>3.0 |             |                                  |
| BT-106                      | Principles of Biological Instrumentation | 3.0      | BT-306       | Basic Biotechnology Lab                  | 2.00    | BT-406      | Bioinformatics Lab 1                        | 2.00     | BT-506             | Advannced Instrumentation Lab 3                                                       | 2.00       |             |                                  |
| ME-107                      | Engineering Drawing With CAD             | 2.00     | BT-307       | Instrumentation Lab 1                    | 2.00    | BT-407      | Plant Tissue Culture Lab                    | 2.00     | BT-507             | Immunology Lab                                                                        | 2.00       |             |                                  |
| BT-108                      | Biology Lab                              | 2.00     | BT-308       | Basic Microbiology Lab                   | 2.00    | BT-408      | Instrumentation Lab 2                       | 2.00     | BT-508             | Bioinformatics lab 2                                                                  | 2.00       |             |                                  |
| SC-109                      | Science Lab                              | 2.00     | CS-309       | Fundamentals of AI/ML Lab                | 2.00    | BT-409      | Advanced Microbiology & Quality Control Lab | 2.00     | BT-509             | Fermentation & Biotechnology Lab                                                      | 2.00       |             |                                  |
| CS-110                      | Computer Fundamentals Lab                | 2.00     | HU-310       | Communication Skills and Life Skills Lab | 2.00    | BT-410      | Soil Biotechnology & Testing Lab            | 2.00     | BT-510             | Project Work                                                                          | 2.00       |             |                                  |
| I YEAR                      |                                          | 25       | III semester |                                          | 25      | IV Semester |                                             | 25       | V Semester         |                                                                                       | 25         | VI Sem      | 20                               |
| TOTAL CREDITS               |                                          |          |              |                                          |         |             |                                             |          |                    |                                                                                       | 120        |             |                                  |

