

# Workload 2024-2025



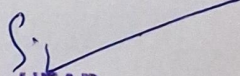
| Name of Faculty       | Workload                           |
|-----------------------|------------------------------------|
| 1. Mr S.G.Kulkarni    | 20 Hrs(T+P)                        |
| 2. Ms.V.N.More        | 20 Hrs(T+P)                        |
| 3. Ms.V.N.arekar      | 20 Hrs(T+P)                        |
| 4. Ms. R.M.Shetty     | 20 Hrs(T+P)                        |
| 5. Ms. T.S.Vagvekar   | 20 Hrs(T+P)                        |
| 6. Ms.S.S.Rote        | 20 Hrs(T+P)                        |
| 7. Ms.A.S.Kale        | 20 Hrs(T+P)                        |
| <b>Total Workload</b> | <b>140 Hrs (7 Full time staff)</b> |

## B.Sc. Biotechnology entire- Semester- I & II

### Semester- I

| Class                   | Verticals<br>NEP | No of<br>Students | No of<br>Batches | Semester | Course<br>Titles                                          | Cre<br>dits | Theory<br>Workload | Practical<br>Workload | Total<br>Workload |
|-------------------------|------------------|-------------------|------------------|----------|-----------------------------------------------------------|-------------|--------------------|-----------------------|-------------------|
| B.sc I                  | DSC-I            | 61                | 1                | Sem 1    | Biotechnology-I<br>(Biotechnology for<br>human welfare-I) | 2           | 6x2= 12            |                       |                   |
| B.sc I                  | DSC-II           |                   | 1                | Sem 1    | Biotechnology-II<br>(Biochemistry-I)                      | 2           |                    |                       |                   |
| B.sc I                  | MIN-I            |                   | 1                | Sem 1    | Microbiology-I<br>(Introduction to<br>Microbial world)    | 2           |                    |                       |                   |
| B.sc I                  | MIN-II           |                   | 1                | Sem 1    | Microbiology II<br>Techniques in<br>Microbiology          | 2           |                    |                       |                   |
| B.sc I                  | OEC-I            |                   | 1                | Sem 1    | Bioinstrumentation I                                      | 2           |                    |                       |                   |
| B.sc I                  | OEC-II           |                   | 1                | Sem 1    | (Plant Sciences)                                          | 2           |                    |                       |                   |
| B.sc I                  | AEC-I            |                   | 1                | Sem 1    | Business<br>Communication-I                               | 2           |                    |                       |                   |
| B.sc I                  | IKS-I            |                   | 1                | Sem 1    | Indian Knowledge<br>System                                | 2           |                    |                       |                   |
| B.sc I                  | DSC-PR-I         |                   | 3                | Sem 1    | Techniques in<br>Biochemistry                             | 2           |                    | 12                    |                   |
| B.sc I                  | MIN-PR-I         |                   | 3                | Sem 1    | Lab exercises<br>Microbiology                             | 2           |                    | 12                    |                   |
| B.sc I                  | OEC-PR-I         |                   | 3                | Sem 1    | Techniques in<br>Bioinstrumentation                       | 2           |                    | 12                    |                   |
| <b>Semester-I Total</b> |                  |                   |                  |          |                                                           | <b>22</b>   | <b>12</b>          | <b>36</b>             | <b>48</b>         |



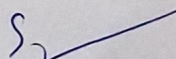
  
**HEAD**  
 DEPARTMENT OF BIOTECHNOLOGY (ENTIRE)  
 VIVEKANAND COLLEGE, KOLHAPUR  
 (EMPOWERED AUTONOMOUS)

### B.Sc. Biotechnology entire Semester- II

| Class               | Verticals NEP | No of Students | No of Batches | Semester | Course Titles                                              | Credits | Theory Workload | Practical Workload | Total Workload |
|---------------------|---------------|----------------|---------------|----------|------------------------------------------------------------|---------|-----------------|--------------------|----------------|
| B.sc I              | DSC-III       | 61             | 1             | Sem I    | Biotechnology -III<br>(Biotechnology for human welfare-II) | 2       | 6x2=12          |                    |                |
| B.sc I              | DSC-IV        |                | 1             | Sem I    | Biotechnology-IV<br>(Biochemistry-II)                      | 2       |                 |                    |                |
| B.sc I              | MIN-III       |                | 1             | Sem I    | Microbiology-III<br>(Bacterial Cytology and Cultivation)   | 2       |                 |                    |                |
| B.sc I              | MIN-IV        |                | 1             | Sem I    | Microbiology-IV<br>(Virology)                              | 2       |                 |                    |                |
| B.sc I              | OEC-III       |                | 1             | Sem I    | (Ecology)                                                  | 2       |                 |                    |                |
| B.sc I              | OEC-IV        |                | 1             | Sem I    | (Animal Sciences)                                          | 2       |                 |                    |                |
| B.sc I              | AEC-II        |                | 1             | Sem I    | Business Communication-II                                  | 2       |                 |                    |                |
| B.sc I              | VSC PR-I      |                | 3             | Sem I    | Basics in Cell biology                                     | 2       |                 | 12                 |                |
| B.sc I              | DSC PR-II     |                | 3             | Sem I    | Techniques in Biotechnology                                | 2       |                 | 12                 |                |
| B.sc I              | MIN-PR-II     |                | 3             | Sem I    | Techniques in Bacterial Cytology Virology-                 | 2       |                 | 12                 |                |
| B.sc I              | OEC-PR-II     |                | 3             | Sem I    | Techniques in Plant & Animal Sciences                      | 2       |                 | 12                 |                |
| Semester – II Total |               |                |               |          |                                                            | 22      | 12              | 48                 |                |

### B.Sc. Biotechnology entire- Semester- III & IV

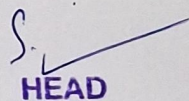
| Class         | Verticals NEP | No of Students | No of Batches | Semester | Course Titles                                  | Credits               | Theory Workload | Practical Workload | Total Workload |
|---------------|---------------|----------------|---------------|----------|------------------------------------------------|-----------------------|-----------------|--------------------|----------------|
| B.sc II       | DSC-V         | 38             | 1             | Sem 2    | Molecular Biology-I                            | 2                     | 4x2=8           |                    |                |
| B.sc II       | DSC-VI        |                | 1             | Sem 2    | Metabolic Pathways - I                         | 2                     |                 |                    |                |
| B.sc II       | MIN-V         |                | 1             | Sem 2    | Microbial Genetics                             | 2                     |                 |                    |                |
| B.sc II       | MIN-VI        |                | 1             | Sem 2    | Environmental Microbiology                     | 2                     |                 |                    |                |
| B.sc II       | VSC PR - II   |                | 2             | Sem 2    | Techniques in Genetics                         | 2                     | -----           | 4x2=8              |                |
| B.sc II       | AEC-III       |                | 1             | Sem 2    | Communication Skills-I                         | 2                     | ----            |                    |                |
| B.sc II       | VEC-I         |                | 1             | Sem 2    | Democracy, Election and Good Governance (DEGG) | 2                     | -----           |                    |                |
| B.sc II       |               |                | VEC-II        | 2        | Sem 2                                          | Environmental Studies | 2               |                    |                |
| B.sc II       | DSC PR-III    |                | 2             | Sem 2    | Techniques in Molecular Biology                | 4                     | -----           | 8x2=16             |                |
| B.sc II       | MIN PR-III    |                | 2             | Sem 2    | Techniques in Environmental Microbiology       | 2                     | -----           | 4x2=8              |                |
| SEM-III Total |               |                |               |          |                                                | 22                    | 8               | 32                 | 40             |

  
**HEAD**  
 DEPARTMENT OF BIOTECHNOLOGY (ENTIRE)  
 VIVEKANAND COLLEGE, KOLHAPUR  
 (EMPOWERED AUTONOMOUS)

Semester – III Total

**B.Sc. Biotechnology entire Semester - IV**

| Class               | Verticals<br>NEP | No of<br>Students | No of<br>Batches | Semester                    | Course<br>Titles                    | Cre<br>dits | Theory<br>Workload | Practical<br>Workload | Total<br>Workload |
|---------------------|------------------|-------------------|------------------|-----------------------------|-------------------------------------|-------------|--------------------|-----------------------|-------------------|
| B.sc II             | DSC-VII          | 38                | 1                | Sem 4                       | Molecular Biology -<br>II           | 2           | 4x2=8              |                       |                   |
| B.sc II             | DSC-VIII         |                   | 1                | Sem 4                       | Metabolic<br>Pathways-II            | 2           |                    |                       |                   |
| B.sc II             | MIN-VII          |                   | 1                | Sem 4                       | Immunology                          | 2           |                    |                       |                   |
| B.sc II             | MIN-VIII         |                   | 1                | Sem 4                       | Advahces in Cell<br>Biology         | 2           |                    |                       |                   |
| B.sc II             | VSC-PR-<br>III   |                   | 2                | Sem 4                       | Basics in Forensic<br>Sciences      | 2           |                    | 4x2=8                 |                   |
| B.sc II             | AEC-IV           |                   | 1                | Sem 4                       | Communication<br>Skills-II          | 2           |                    |                       |                   |
| B.sc II             | VEC-III          |                   | 1                | Sem 4                       | Environmental<br>Studies            | 2           |                    |                       |                   |
| B.sc II             | CC               |                   | 2                | Sem 4                       | C0-Curricular<br>Courses            | 2           |                    |                       |                   |
| B.sc II             | DSC PR-<br>IV    |                   | 2                | Sem 4                       | Techniques in<br>Metabolic Pathways | 2           |                    | 8x2=16                |                   |
| B.sc II             | MIN-PR-<br>IV    | 2                 | Sem 4            | Techniques in<br>Immunology | 4                                   |             | 4x2=8              |                       |                   |
| Semester – IV Total |                  |                   |                  |                             |                                     | 22          | 8                  | 32                    | 40                |


**HEAD**

**DEPARTMENT OF BIOTECHNOLOGY (ENTIRE)**  
**VIVEKANAND COLLEGE, KOLHAPUR**  
**(EMPOWERED AUTONOMOUS)**

# **B.Sc. Biotechnology entire - Semester- V & VI (2024-25)**

## **Semester- V & VI**

| Class        | Verticals<br>NON-<br>NEP | No of<br>Student<br>s | No of<br>Batches | Semester | Course<br>Titles                     | Theory<br>Workload | Practical<br>Workload | Total<br>Workload |
|--------------|--------------------------|-----------------------|------------------|----------|--------------------------------------|--------------------|-----------------------|-------------------|
| B.Sc-<br>III | DSE-<br>1355-E           | 54                    | 3                | Sem-V    | Basics in<br>Genetic<br>Engg         | 12                 |                       |                   |
|              | DSE-<br>1356-E           |                       | 3                |          | Industrial<br>Biotech                |                    |                       |                   |
|              | DSE-<br>1357-E           |                       | 3                |          | Application<br>of Biotech In<br>Agri |                    |                       |                   |
|              | DSE-<br>1358-E           |                       | 3                |          | Biosafety,<br>Bioethics,<br>IPR      |                    |                       |                   |
|              | AECC-E                   |                       |                  |          | English                              |                    |                       |                   |
|              |                          |                       |                  |          |                                      |                    |                       |                   |

|             |                         |  |   |            |                                                    |    |    |                                   |
|-------------|-------------------------|--|---|------------|----------------------------------------------------|----|----|-----------------------------------|
| BSc-<br>III | DSE-<br>1355-F          |  |   | Sem<br>-VI | Advances in GE                                     |    |    |                                   |
|             | DSE-<br>1356-F          |  |   |            | Food<br>Biotechnology                              |    |    |                                   |
|             | DSE-<br>1357-F          |  |   |            | Application of<br>Biotech in health                |    |    |                                   |
|             | DSE-<br>1358-F          |  |   |            | Bioinformatics                                     |    |    |                                   |
|             | AECC-F                  |  |   |            |                                                    |    |    |                                   |
|             | DSE-<br>1360 PR-<br>VII |  | 3 |            | Techniques in GE<br>and<br>Bioinformatics          |    |    |                                   |
|             | DSE-<br>1361-PR-<br>IX  |  | 3 |            | Techniques in<br>Industrial Biotech                |    | 40 |                                   |
|             | DSE-<br>1362-X          |  | 3 |            | Techniques in<br>Agriculture and<br>Health Biotech |    |    |                                   |
|             | DSE-<br>1363-XI         |  | 3 |            | Project                                            |    |    |                                   |
|             |                         |  |   |            | Grand Total (V+VI)                                 | 12 | 40 | 52<br>Lectures(41.6) =<br>42 Hrs) |



  
**HEAD**  
 DEPARTMENT OF BIOTECHNOLOGY (ENTIRE)  
 VIVEKANAND COLLEGE, KOLHAPUR  
 (EMPOWERED AUTONOMOUS)