

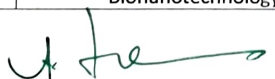
**1.1.1(c) c) Local, global, regional need format for the above batch**  
**List of Courses having focus on local, national, regional and global developmental needs**

**Offered by the Department of Botany**

| B.Sc.                |                                                                                                            |       |                                                                                                         |          |        |                         |
|----------------------|------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------------------------|----------|--------|-------------------------|
| Programme:<br>Botany |                                                                                                            |       | 2021 Batch - V and VI Semesters<br>2022 Batch - III and IV Semesters<br>2023 Batch - I and II Semesters |          |        |                         |
| Course Code          | Course Title                                                                                               | Need  |                                                                                                         |          |        | Rationale               |
|                      |                                                                                                            | Local | National                                                                                                | Regional | Global |                         |
| 23UBY101             | Plant diversity I(Phycology, Mycology and Bryology)                                                        |       |                                                                                                         |          | ✓      | Pursue research         |
| 23UZY1A1             | Allied : Botany<br>(Plant diversity, Anatomy, Embryology and Plant pathology)                              |       |                                                                                                         |          | ✓      | Pursue research         |
| 23UBY202             | Plant diversity II (Pteridophytes, Gymnosperms and Palaeobotany)                                           |       | ✓                                                                                                       |          |        | Pursue research         |
| 23UBY203             | LAB I – (Plant diversity I & II)                                                                           | ✓     |                                                                                                         |          |        | Pursue research         |
| 23UZY2A2             | Allied: Botany<br>(taxonomy of angiosperms, physiology, horticulture, pharmacognosy & plant biotechnology) |       |                                                                                                         |          | ✓      | Pursue research         |
| 23UZY2A3             | Allied botany practical                                                                                    |       | ✓                                                                                                       |          |        | Pursue research         |
| 22UBY304             | Cytology, Anatomy and Embryology                                                                           |       |                                                                                                         |          | ✓      | Pursue research         |
| 22UBY3N11            | Landscape Designing                                                                                        |       |                                                                                                         |          | ✓      | Pursue entrepreneurship |
| 22UBY3N12            | Herbal Cosmetics                                                                                           |       |                                                                                                         |          | ✓      | Pursue entrepreneurship |

|           |                                                                                                              |   |   |   |   |                          |
|-----------|--------------------------------------------------------------------------------------------------------------|---|---|---|---|--------------------------|
| 22UBY405  | Biochemistry, Biophysics & Bioinstrumentation                                                                |   |   | ✓ |   | Pursue research          |
| 22UBY406  | Major practical – II<br>(Cell biology, Anatomy & Embryology & Biochemistry, Biophysics & Bioinstrumentation) |   |   |   | ✓ | Pursue research          |
| 22UBY4N22 | Remote sensing and natural resource management                                                               |   |   | ✓ |   | Pursue Skill development |
| 22UBY4N22 | (Non Major) -Bioinformatics                                                                                  |   | ✓ |   |   | Pursue Skill development |
| 21UBY507  | Taxonomy of Angiosperms                                                                                      |   |   |   | ✓ | Pursue research          |
| 21UBY508  | Genetics & Evolution                                                                                         |   |   |   | ✓ | Pursue Skill development |
| 21UBY509  | Bioinformatics                                                                                               |   |   |   | ✓ | Pursue Skill development |
| 21UBY510  | Mathematics for Biologists                                                                                   |   |   |   | ✓ | Pursue Skill development |
| 21UBY5E1  | Microbiology and Plant pathology                                                                             |   |   |   | ✓ | Pursue Skill development |
| 21UBY5E2  | Ethno botany                                                                                                 | ✓ |   |   |   | Pursue Skill development |
| 21UBY5E3  | Herbal cosmetics and Cosmeceuticals                                                                          |   | ✓ |   |   | Pursue entrepreneurship  |
| 21UBY5AL  | Biological Disaster–Mitigation & Management                                                                  |   |   |   | ✓ | Pursue Skill development |
| 21UBY5S1  | Network and Information Security                                                                             |   |   |   | ✓ | Pursue Skill development |
| 21UBY5S2  | Cyber security–Ethicalhacking                                                                                |   |   |   | ✓ | Pursue Skill development |
| 21UBY611  | Plant Physiology                                                                                             |   |   |   | ✓ | Pursue research          |

|          |                                               |  |   |   |   |                          |
|----------|-----------------------------------------------|--|---|---|---|--------------------------|
| 21UBY612 | Biotechnology & Genetic Engineering           |  |   |   | ✓ | Pursue research          |
| 21UBY613 | Horticulture and Plant Breeding               |  |   | ✓ |   | Pursue entrepreneurship  |
| 21UBY6E4 | Habitat Ecology                               |  |   | ✓ |   | Pursue Skill development |
| 21UBY6E5 | Biodiversity and Its Conservation             |  |   |   | ✓ | Pursue Skill development |
| 21UBY6E6 | Environmental Biotechnology                   |  |   |   | ✓ | Pursue Skill development |
| 21UBY6E7 | Bioprospecting                                |  |   |   | ✓ | Pursue research          |
| 21UBY6E8 | Biofertilizers                                |  | ✓ |   |   | Pursue entrepreneurship  |
| 21UBY6E9 | Seed Technology                               |  |   |   |   | Pursue research          |
| 21UBY614 | Major Practical-III (For V Sem Theory Papers) |  |   |   | ✓ | Pursue Skill development |
| 21UBY615 | MAJOR PRACTICAL-IV(For VI sem theory Papers)  |  |   |   | ✓ | Pursue Skill development |
| 21UBY6AL | Advanced learner course -II Bionanotechnology |  |   |   | ✓ | Pursue Skill development |

  
Head of the Department

Dr. LOGAMADEVI, M.Sc., M.Phil., Ph.D.  
Associate Professor and  
Head  
Department of Botany  
NGM College Pollachi - 642 001

  
Principal

**Dr. R. MOITHUKUMARAN,**  
M.A., M.Phil., B.Ed., Ph.D.  
PRINCIPAL  
NGM College, Pollachi - 642 001  
Coimbatore District