

**J.J. College of Arts and Science (Autonomous)**  
**Sivapuram Post, Pudukkottai – 622 422**  
**(Re-Accredited by NAAC – 4<sup>th</sup> Cycle)**  
**Affiliated to Bharathidasan University, Tiruchirappalli**

**PG and Research Department of Botany**

**Minutes of the Board of Studies Meeting**


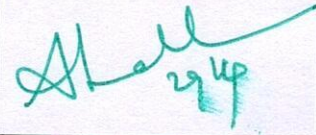

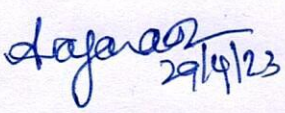
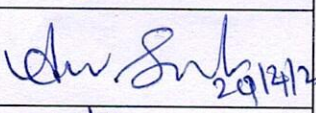
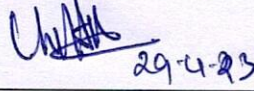
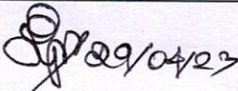
**Meeting No: 09**

**Date: 29.04.2023**

**Time: 11.00 a.m.**

The Meeting of the Board of Studies in Botany (U.G. and P.G.) for the **sixth revision of the curricula** to be implemented from **2023-2024**, was conducted at 11.00 a.m. on Saturday, 29.04.2023

**Members**

| S.No. | Name  | Designation                             | Signature   |
|-------|---|---|---|
| 1.    | <b>Dr. M. Arumugam</b><br>Head, Department of Botany<br>J.J. College of Arts and Science (Autonomous)<br>Pudukkottai- 622 422                     | Chairman                                | <br>29/4/23    |
| 2.    | <b>Dr. A. Lakshmi Prabha</b><br>Professor and Head<br>Department of Botany<br>Bharathidasan University<br>Tiruchirappalli – 620 024               | University Nominee                      | <br>29/4/23  |
| 3.    | <b>Dr. M. Jothi Basu</b><br>Assistant Professor in Botany<br>Directorate of Distance Education<br>Alagappa University Karaikudi – 630 003         | Subject Expert                          | Absent  |
| 4.    | <b>Dr.P.Abirami</b><br>Assistant Professor<br>Department of Botany<br>Seethalakshmi Achi College for Women<br>Pallathur, Sivagangai- District     | Subject Expert                          | <br>29.04.23 |
| 5.    | <b>Dr.A.Nagasathya</b><br>Assistant Professor and Head<br>Department of Zoology<br>Government Arts College for Women<br>(Autonomous), Pudukkottai | Special Invitee for<br>Zoology (Allied) | <br>29/4/23  |
| 6.    | Dr.A.N.Sundar   | Faculty Member                          | <br>29/4/23  |
| 7.    | Dr.J.Mohammed Hussain   | Faculty Member                          | <br>29-4-23  |
| 8.    | Dr.S.Vinoth Ponpandian  | Faculty Member                          | <br>29/04/23 |

|     |   |                                 |                             |
|-----|---|---------------------------------|-----------------------------|
| 9.  | K.Thamaraichelvi  | Faculty Member                  | Absent                      |
| 10. | Dr.A.Krishnapriya   | Faculty Member                  | A. Krishnapriya<br>29/04/23 |
| 11. | Mr. N.Selvam<br>Kallukudiyiruppu<br>Melnilavayal Po<br>Thirumayam Tk<br>Pudukkottai – 622 202 | Representative from<br>Industry | N.S. Selvam                 |
| 12  | S.Akila<br>Lena Vilakku<br>Thirumayam Tk<br>Pudukkottai Dist.                                 | Alumni                          | S. Akila                    |

The Chairman, Dr .M. Arumugam chaired the meeting and welcomed all the members to the ninth BoS Meeting. After the brief introduction, the agenda items listed were taken up for discussion and the following resolutions were passed.

It was resolved to

1. As per the instructions from **TANSCHÉ and the Parent University**, it is resolved to include **75 % of mandatory inclusion** content from model syllabus and **25 % of Preferential inclusion** by our Department to preserve equivalence in U.G. and P.G. Degree Programmes to enable student Mobility to be implemented from the academic year 2023 – 2024 onwards is framed and restructured following the guidelines laid down by the UGC - LOCF and Tamil Nadu State Council for Higher Education (TANSCHÉ) and the Parent University.
2. It is resolved to evaluate the Syllabus followed during the Academic Year 2022 – 2023 based on the first Semester Results.
3. It is also resolved to analyze the previous Curriculum based on the feedback received from the Teachers, Employers, Students and the Alumni.
4. Approve the Curriculum, Course Structure (Syllabi) and Text Books recommended for Implementation from 2023-2024 onwards.
5. The syllabi for the semester (III, IV, V and VI) are to be framed and discuss in the next meeting to be held on January 2024
6. Allow earning Extra Credits through Courses under SWAYAM-MOOC's

7. Apply Revised Bloom's Taxonomy in spelling out Course Outcomes.
8. Change Nomenclature of Courses as shown below
  - **Discipline Specific Elective (DSE)** Courses instead of Major Based Elective Courses (MBE)
  - **Skill Enhancement Courses (SEC)** instead of Skill Based Elective Courses.
  - **Ability Enhancement Compulsory Courses (AECC)** introduced.
    - Introduction to studies skills
    - Life skills
    - Job oriented Skills
    - Computing skills
- 9. Implement the following guidelines on Curriculum design given by NAAC**
  - a. Specific mention has been made of Program outcomes (POs) Program specific outcomes (PSOs), Course Outcomes (COs) Programme Educational Objectives (PEOs) and Course Objectives in the Syllabus.
  - b. Relationship Matrix for CO, PO and PSO for all courses implemented.
  - c. Curriculum addresses local, Regional, National and Global Needs
  - d. Courses focus on Employability, Entrepreneurship and Skill Development**
  - e. Courses also focus on Gender, Environment and Sustainability, Human values and Professional Ethics.
10. List the Courses newly introduced in UG & PG and details of Percentage of Revision carried out as an appendix.
11. Introduce foundation course (FC) as a new course in the first semester
12. A. Introduce in the industrial visit as a new course in the fifth semester.
  - B. The Following courses are newly introduced

| Sl.No | Name of the Course                                  | Course Code  | Year of introduction |
|-------|---|--------------|----------------------|
|       | PG  |              |                      |
| 1     | Conservation of Natural Resources and Policies      | P1R3BODSE1:2 | 2023                 |
| 2     | Mushroom Cultivation                                | P1R3BODSE1:3 | 2023                 |
| 3     | Phytopharmacognosy                                  | P1R3BODSE1:4 | 2023                 |
| 4     | Algal Technology                                    | P1R3BODSE2:1 | 2023                 |
| 5     | Ethnobotany, Naturopathy and Traditional Healthcare | P1R3BODSE2:2 | 2023                 |
| 6     | Herbal Technology                                   | P1R3BODSE2:4 | 2023                 |

|    |  |              |      |
|----|--|--------------|------|
| 7  | Introduction to Study Skills   | P1R3AECC1    | 2023 |
| 8  | Medicinal Botany   | P2R3BODSE3:1 | 2023 |
| 9  | Phytochemistry   | P2R3BODSE3:2 | 2023 |
| 10 | Research Methodology, Computer Applications & Bioinformatics                                       | P2R3BODSE2:3 | 2023 |
| 11 | Biopesticide Technology  | P2R3BODSE3:4 | 2023 |
| 12 | Applied Bioinformatics   | P2R3BODSE4:1 | 2023 |
| 13 | Biostatistics  | P2R3BODSE4:2 | 2023 |
| 14 | Intellectual Property Rights   | P2R3BODSE4:3 | 2023 |
| 15 | Nanobiotechnology  | P2R3BODSE4:4 | 2023 |
| 16 | Agriculture and Food Microbiology-II   | P2R3BOSEC2   | 2023 |
| 17 | Life Skills  | P2R3AECC2    | 2023 |
|    | Recombinant DNA Technology and Industrial Applications   | P3R3AECC2    | 2023 |
| 18 | Industrial Botany  | P3R3BOIM     | 2023 |
| 19 | Secondary Plant Products and Fermentation Biotechnology  | P3R3BODSE5:1 | 2023 |
| 20 | Entrepreneurial Opportunities in Botany  | P3R3BODSE5:2 | 2023 |
| 21 | Applied Plant Cell & Tissue Culture  | P3R3BODSE5:3 | 2023 |
| 22 | Silviculture and Commercial Landscaping  | P3R3BODSE5:4 | 2023 |
| 23 | Soft Skill   | P3R3AECC3    | 2023 |
| 24 | Internship/Industrial Activity<br>(Carried out in Summer Vacation at the End of 1 year – 30 hours) | P4R3 BOINT   | 2023 |
| 25 | Plant Physiology and Plant Metabolism  | P4R3BODSE1:1 | 2023 |
| 26 | Forestry and Wood Technology   | P4R3BODSE1:2 | 2023 |
| 27 | Gene cloning and Gene Therapy  | P4R3BODSE1:3 | 2023 |
| 28 | Farm Sciences- Green Wealth  | P4R3BODSE1:4 | 2023 |
| 29 | Training for Competitive Examinations  | P4R3BODSE1:1 | 2023 |
| 30 | Botany for net/UGC-CSIR/SET/TRB Competitive Examinations   |              | 2023 |
| 31 | Botany for Advanced Research   |              | 2023 |
|    | UG   |              | 2023 |
| 32 | Environmental Biotechnology  | U1R3SEC1:2   | 2023 |
| 33 | Nursery and Landscaping  | U1R3SEC1:3   | 2023 |
| 34 | Soft Skill 1   | U1R3AECC1    | 2023 |
| 35 | Herbal Medicine  | U2R3SEC2:2   | 2023 |
| 36 | Global Climate Change  | U2R3SEC2:3   | 2023 |
| 37 | Botanical Garden and Landscaping   | U2R3SEC3:1   | 2023 |
| 38 | Soft Skill 2   | U1R3AECC2    | 2023 |
| 39 | Herbal Technology  | U3R3SEC4     | 2023 |

|    |   |            |      |
|----|---|------------|------|
| 40 | Entrepreneurial Skill Entrepreneurial Opportunities in Botany | U3R3SEC5   | 2023 |
| 41 | Soft Skill 3  | U1R3AECC3  | 2023 |
| 42 | Cultivation of Algae  | U4R3EC4    | 2023 |
| 43 | Fermentation Technology                                       | U4R3SEC6   | 2023 |
| 44 | Environmental Impact Analysis                                 | U4R3SEC7   | 2023 |
| 45 | Soft Skill 4  | U1R3AECC4  | 2023 |
| 46 | Bio-analytical Techniques                                     | U5R3EC5:1  | 2023 |
| 47 | Aquatic Botany  | U5R3EC5:2  | 2023 |
| 48 | Entrepreneurial Botany  | U5R3EC5:3  | 2023 |
| 49 | Project with Viva-Voce  | U5R3BOPW   | 2023 |
| 50 | Natural Resource Management                                   | U6R3EC7:2  | 2023 |
| 51 | Forestry  | U6R3EC7:3  | 2023 |
| 52 | Bionanotechnology   | U6R3EC8:1  | 2023 |
| 53 | Computer Application in Botany                                | U6R3EC8:2  | 2023 |
| 54 | Forensic Botany   | U6R3EC8:3  | 2023 |
| 55 | Botany for Competitive Examinations                           | U6R3SEC8:1 | 2023 |
| 56 | General Studies Botany for Competitive Examinations           | U6R3SEC8:2 | 2023 |

13. Environmental science and value education course to be followed in IV and V semesters respectively

14. Resolved to have the following Courses in the first two semester

| Sem | Part | Course code         | Course Title  | Hrs/<br>Week | Credit | Exam<br>Hours | Marks |     | Total<br>Marks |
|-----|------|---------------------|---|--------------|--------|---------------|-------|-----|----------------|
|     |      |                     |   |              |        |               | Int   | Ext |                |
| I   | I    | U1R3TL1/<br>HL1/FL1 | Language Course – I   | 6            | 3      | 3             | 25    | 75  | 100            |
|     | II   | U1R3EL1             | English Language course – I   | 4            | 3      | 3             | 25    | 75  | 100            |
|     | III  | U1R3BOCC1           | Plant Diversity – I Algae   | 5            | 4      | 3             | 25    | 75  | 100            |
|     |      | U1R3BOCC2P          | Major Practical-I (Covering CC1)  | 4            | 3      | 3             | 40    | 60  | 100            |
|     |      | U1R3ZODSEC1         | Allied Zoology Theory – I   | 4            | 2      | 3             | 25    | 75  | 100            |
|     |      | -                   | Allied Practical -I   | 2            | 2      | 3             | 40    | 60  | 100            |
|     | IV   | U1R3                | ✓ Skill Enhancement Courses SEC1<br>Part - IV - NME-I<br>✓ To be opted from the other<br>Department | 2            | 1      | 3             | 25    | 75  | 100            |
|     | IV   | U1R3BOFC1           | Foundation Course FC  | 1            | 1      |               |       |     |                |
|     | IV   | U1R3BOAECC 1        | ✓ Ability Enhancement Compulsory  | 2            | 2      | 3             | 25    | 75  | 100            |

|              |            |                                       |   |           |           |          |          |            |
|--------------|------------|---------------------------------------|---|-----------|-----------|----------|----------|------------|
|              |            | Discipline-Centric)                   |   |           |           |          |          |            |
|              | P1R3BOED1  | Elective (Generic Discipline-Centric) | ED1: (One from each Group B)  | 4         | 3         | 25       | 75       | 100        |
|              | P1R3BOSE1  | Skill Enhancement (SE1)               | SE1: Nursery and gardening  | 3         | 2         | 25       | 75       | 100        |
|              | P1R3BOSS1  | Additional Skill Supportive Courses   | Part IV (Soft Skill)  | 2         | 2         | 25       | 75       | 100        |
| <b>Total</b> |            |                                       |   | <b>30</b> | <b>23</b> | <b>-</b> | <b>-</b> | <b>500</b> |
| <b>II</b>    | P2R3BOCC4  | <b>Core</b>                           | <b>Core IV</b> Taxonomy of Angiosperms and Economic Botany                                    | 5         | 4         | 25       | 75       | 100        |
|              | P2R3BOCC5  |                                       | <b>Core V</b> Plant Anatomy and Embryology of angiosperms                                     | 5         | 4         | 25       | 75       | 100        |
|              | P2R3BOCC6  |                                       | <b>Core VI</b> Ecology, phytogeography, Conservation Biology and Intellectual property rights | 5         | 4         | 25       | 75       | 100        |
|              | P2R3BOCC7P |                                       | <b>Core VII Laboratory course- II:</b> Covering Core Papers IV, V and VI                      | 6         | 4         | 40       | 60       | 100        |
|              | P2R3BOEG2  | Elective (Generic Discipline-Centric) | EG2: (One from each Group C)  | 6         | 3         | 25       | 75       | 100        |
|              | P2R3BOED2  | Elective (Generic Discipline-Centric) | ED2: (One from each Group D)  | 3         | 3         | 25       | 75       | 100        |
|              | P2R3BOSE2  | Skill Enhancement (SE1)               | SE2 Agriculture and Food Microbiology   | 3         | 3         | 25       | 75       | 100        |
|              | P2R3BOSS2  | Additional Skill Supportive Courses   | Part IV (Soft Skill)  | 2         | 2         | 25       | 75       | 100        |
| <b>Total</b> |            |                                       |   | <b>30</b> | <b>26</b> |          |          | <b>800</b> |

16. It is resolved to convene a Board of Studies meeting in the coming days (if the need arises) to incorporate the Modifications / Updatons in the Curriculum based on the communication from the Parent University / TANSICHE.

1. M. D. D. 29/4/23

2. A. K. 29/4

3. Absent

4. A. K. 29/04/2023

5. A. K. 29/4/23

6. A. K. 29/4/23

7. ~~U. K.~~ 29.4.23

8. ~~S. K.~~ 29.4.23

9. Absent.

10. A. K. 29/4/23

11. N. S. K.

12. S. A. K.