(Accredited with 'A+' Grade by NAAC) CENTRE FOR DISTANCE AND ONLINE EDUCATION

Annamalainagar – 608 002

Semester Pattern: 2025-26

Instructions to submit Third Semester Assignments

- 1. Following the introduction of semester pattern, it becomes mandatory for candidates to submit assignment for each course.
- 2. Assignment topics for each course will be displayed in the A.U, CDOE website (**www.audde.in**).
- 3. Each assignment contains 5 questions and the candidate should answer all the 5 questions. Candidates should submit assignments for each course separately. (5 Questions x 5 Marks = 25 marks).
- 4. Answer for each assignment question should not exceed 4 pages. Use only A4 sheets and write on one side only. **Write your Enrollment number on the top right corner** of all the pages.
- 5. Add a template / content page and provide details regarding your Name, Enrollment number, Programme name, Code and Assignment topic. Assignments without template/ content page will not be accepted.
- 6. Assignments should be handwritten only. Typed or printed or photocopied assignments will not be accepted.
- 7. **Send all Third semester assignments in one envelope**. Send your assignments by Registered Post to The Director, Centre for Distance and Online Education, Annamalai University, Annamalai Nagar 608002.
- 8. Write in bold letters, "ASSIGNMENTS THIRD SEMESTER" along with PROGRAMME NAME on the top of the envelope.
- 9. Assignments received after the **last date with late fee** will not be evaluated.

Date to Remember

Last date to submit Third semester assignments : 01.11.2025 Last date with late fee of Rs.300 (three hundred only) : 15.11.2025

DIRECTOR CDOE

CENTRE FOR DISTANCE AND ONLINE EDUCATION S022 - M.Sc. BOTANY

SECOND YEAR - III SEMESTER (2025 - 2026) ASSIGNMENT QUESTION

022E2310: TAXONOMY OF ANGIOSPERMS AND ECONOMIC BOTANY.

- 1. Describe the outline of Bentham & Hookers system of classification.
- 2. Discuss the importance of Herbarium. Mention two herbaria of India..
- 3. Note on tendrils o fvarious species of cucurbitaceae
- 4. Draw a lable sketch on floral diagram of various species of Poaceae.
- 5. Write an essay taxonomic diversity of useful plants.

022E2320: BIO CHEMISTRY AND MOLECULAR BIOLOGY.

- 1. Describe the chemical structure and function of carbohydrates.
- 2. Describe the structure and classification of secondary metabolism.
- 3. Explain the Enzymology of DNA replication.
- 4. Discuss the difference between prokaryotic and Eukaryotic RNA polymerases.
- 5. What is codon and explain the different types of codon.?

022E2330: BIOLOGICAL TECHNIQUES AND RESEARCH METHODOLOGY.

- 1. Describe the working principle of TEM and SEM.
- 2. Enumerate the types of blotting technique.
- 3. Describe the essay on materials and methods in research..
- 4. Write about WTO, GATTT and TRIPS.
- 5. Write brief notes on MS-Office and MS-Excel.

022E2340: PLANT BIOTECHNOLOGY AND GENETIC ENGINEERING.

- **1.**Explain the Isolotion of protoplast by mechanical and enzymatic method.
- 2. Describe the structure of bio reactor.
- 3. Describe the restriction endonuclease and its types.
- 4. Enumerate the preparation of molecular gene maping in cotton and forest tree.
- 5. Write in detail of Nif gene techniques in non leguminous plants