

  
**A N N A M A L A I      U N I V E R S I T Y**

(Accredited with 'A+' Grade by NAAC)

CENTRE FOR DISTANCE AND ONLINE EDUCATION

Annamalainagar – 608 002

**Semester Pattern: 2024-25**

**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 Second 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 : 01.11.2024

Last date with late fee of Rs.300 (three hundred only) : 15.11.2024

**Dr. T.SRINIVASAN**  
**Director**

**CENTRE FOR DISTANCE AND ONLINE EDUCATION**  
**S022 – M. Sc BOTANY**  
**SECOND YEAR – III SEMESTER**  
**ASSIGNMENT TOPIC (JULY SESSION 2023 - 24)**

**022E2310: TAXONOMY OF ANGIOSPERMS AND ECONOMIC BOTANY.**

1. Describe the out line of Bentham & Hookers system of classification.
2. Discuss the importance of Herbarium. Mention two herbaria of India.
3. Note on tendrils of various species of cucurbitaceae.
4. Draw a lable sketch on floral diagram of various species of Poaceae.
5. Describe how fibres are classified according to their utilization.

**022E2320: BIO CHEMISTRY AND MOLECULAR BIOLOGY.**

1. What are the chemical structure and function of carbohydrates?
2. Describe the structure and classification of secondary metabolism.
3. Explain the role of activators and inducer in positive gene regulation.
4. 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. Working principle of TEM and SEM.
2. List the types of blotting technique.
3. What are the basic types of research? Give in details.
4. Mention about WTO, GATTT and TRIPS.
5. Note on MS-Office and MS-Excel.

**022E2340: PLANT BIOTECHNOLOGY AND GENETIC ENGINEERING.**

1. Isolation of protoplast by mechanical and enzymatic method.
2. Describe the structure of bio reactor.
3. Restriction endonuclease and its types.
4. Preparation of molecular gene mapping in cotton and forest tree.
5. Nif gene techniques in non leguminous plants.