

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 Third semester assignments in one envelope.** Send your assignments by Registered Post to The Director, Center 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 : **15.04.2025**

Last date with late fee of Rs.300 (three hundred only) : **30.04.2025**

Dr. T. SRINIVASAN

Director

CENTRE FOR DISTANCE AND ONLINE EDUCATION

S022 – M.Sc. BOTANY

SECOND YEAR – III SEMESTER

ASSIGNMENT TOPICS

022E2310: TAXONOMY OF ANGIOSPERMS AND ECONOMIC BOTANY.

1. Describe the outline of Bentham & Hookers system of classification.
2. Write a detailed account on various molecular tools used in plant taxonomy and their applications.
3. Bring out the characters of Lamiaceae.
4. Draw a label sketch on floral diagram of various species of Poaceae.
5. Write an essay on taxonomic diversity of useful plants.

022E2320: BIO CHEMISTRY AND MOLECULAR BIOLOGY.

1. What are the chemical structure and function of carbohydrates.
2. Explain in detail the structure, classification and properties of terpenoids.
3. Explain the Enzymology of DNA replication.
4. Difference between prokaryotic and Eukaryotic RNA polymerases.
5. Describe the structure of Ribosomes.

022E2330: BIOLOGICAL TECHNIQUES AND RESEARCH METHODOLOGY.

1. Describe the working principle of TEM and SEM.
2. Write an essay on different types of molecular biological techniques.
3. Describe the essay on materials and methods in research.
4. Write about plant variety production, plant breeders' rights and farmers' rights.
5. Note on MS-Office and MS-Excel.

022E2340: PLANT BIOTECHNOLOGY AND GENETIC ENGINEERING.

1. Isolation of protoplast by mechanical and enzymatic method.
2. Write brief account on artificial seed.
3. Describe the restriction endonuclease and its types.
4. What are the achievements in DNA sequence methods.
5. Write Nif gene techniques in non leguminous plants