

Semester Pattern: 2023-24

[January Session]

Instructions to submit First 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 First 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 – FIRST 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 **First semester** assignments : **15.04.2024**

Last date with late fee of Rs.300 (three hundred only) : **30.04.2024**

Dr. T. SRINIVASAN
Director

M.Sc Microbiology (I Semester) – First year

Assignments Topics (January session)

(AY - 2023-2024)

PROGRAMME: I M.Sc.,Microbiology (Two years)

YEAR: I/ SEM : I

I) Course Code: 792E1110

Course Title: General Microbiology

1. Brief notes on Classification of Bacteria (Bergey's Manual), Fungi, Algae and Virus.
2. Write an essay on microbial staining techniques
3. Give a detailed notes on general characteristics and nature of Archaeobacteria & Eubacteria
4. Describe Tests for sensitivity to antimicrobial agents.
5. Explain in detail about methods of microbial Preservation

II) Course Code: 792E1120

Course Title: Microbial Physiology and Metabolism

1. Give a brief notes on factors affecting bacterial growth
2. Explain about bacterial transport mechanisms
3. Brief account of photosynthetic bacteria and green algae
4. Describe about Embden Mayer Hoff & Enter Doudroff pathway
- 5 Give an elaborate notes on bacterial endospore structure , properties & germination

III) Course Code: 792E1130

Course Title: Microbial Genetics & Molecular Biology

1. Write a brief notes on discovery of DNA structure and physical properties of DNA
2. Explain in detailed about DNA replication in Prokaryotes and Eukaryotes
3. Brief account of RNA structure and its types
4. Describe about regulation of gene expression
5. Classify bacterial conjugations