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

Annamalainagar – 608 002

Semester Pattern: 2024-25 [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, Centre 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 : **30.04.2025** Last date with late fee of Rs.300 (three hundred only) : **15.05.2025**

Dr. T.SRINIVASAN
Director

CENTRE FOR DISTANCE AND ONLINE EDUCATION S792 - M.Sc. MICROBIOLOGY FIRST YEAR - I SEMESTER

ASSIGNMENT TOPICS (JANUARY SESSION 2025)

792E1110: GENERAL MICROBIOLOGY

- 1. Elaborate notes on the classification of Bacteria (Bergey's manual), fungi, algae and virus.
- 2. Explain the different types of staining techniques.
- 3. Describe the cell wall of bacteria & fungi.
- 4. Explain the sterilization methods.
- 5. Describe the isolation of different types of bacteria and fungi.

792E1120: MICROBIAL PHYSIOLOGY AND METABOLISM

- 1. Explain the phases of growth curve and its calculation.
- 2. Explain the biosynthesis of peptidoglycan
- 3. Discuss the photosynthetic and accessory pigments.
- 4. Explain about Embden Mayer Hoff pathway and Enter Doudroff pathway.
- 5. Elaborate notes on replication of bacterial chromosomes.

792E1130: MICROBIAL GENETICS & MOLECULAR BIOLOGY

- 1. Describe the structure, chemistry, forms and physical properties of DNA.
- 2. Explain a) Mutation and mutagenesis b) DNA damage and repair.
- 3. Elaborate notes on a) RNA structure and its types b) Transcription
- 4. Explain the a) Regulation of gene expression b) Operon concept.
- 5. Explain a) Recombination b) Molecular basis of transformation.