

  
**F 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: 2025-26 [JANUARY SESSION]**

**Instructions to submit Second 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](http://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 – SECOND 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 Second semester assignments : 15.04.2026

Last date with late fee of Rs.300 (three hundred only) : 30.04.2026

**Dr. S.ARULSELVI**  
**Director**

## M.Sc. Chemistry (CDOE) – Assignment topics

### I Year - Second Semester

#### 020E1210 – Organic Chemistry- II

1. Discuss cope, Claisen and Sommet Hauser rearrangements.
2. Illustrate the conformational analysis of cyclohexane, mono and di-substituted derivatives and their reactivity.
3. Write a note on different types of RNA.
4. Discuss the synthesis and reaction of benzofuran.
5. Explain the structure and uses of penicillin.

#### 020E1220 – Inorganic Chemistry- II

1. Discuss the factors influencing the stability of complexes.
2. Illustrate the Valence Bond Theory and its limitations.
3. Explain the mechanism of acid hydrolysis of Co (III) complexes.
4. Write a short note on inner and outer sphere mechanism involved in redox reaction.
5. Discuss in detail (i) Photooxidation (ii) Photoreduction

#### 020E1230 – Physical Chemistry- II

1. Explain the Michaelis and Menten equation with suitable example.
2. Discuss the LFER correlation analysis with Hammett equation
3. Give the application of Schrodinger wave equation.
4. Illustrate the LCAO-MO theory for H<sub>2</sub> molecule.
5. Discuss the variation theorem and explain with suitable example.