**CURRICULUM PLAN (EVEN SEMESTER 2024-25)**

**Teacher Name: Dr. Anjali Sehrawat**

**Course: BSc. Life Science, II year (Semester IV)**

**Paper Name: Chemistry of Carboxylic acids and their derivatives, Amines and Heterocycles (NEP) (1 period per week)**

**UPC: 2172512401**

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| **Contents** | **Allocation of lectures** | **Month wise schedule to be followed** | **Tutorial/Assignments/****Presentations etc.** |
| **UNIT 1: Carboxylic acids and their derivatives (Aliphatic and Aromatic)**Preparation of Carboxylic acids (By Oxidation of alcohols, aldehydes and ketones), acidic and alkaline hydrolysis of esters, Reactions- Hell-Volhard Zelensky reaction | **4** | **2nd week of January- 1st week of February** | * **Syllabus Overview**
* **References Books**
* **Lectures\**
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| Carboxylic acid and their derivatives (Aliphatic)Preparation of acid chloride, esters, anhydrides etc from acid and their interconversions, Claisen condensation, Reactions – Relative reactivities of acid derivatives towards nucleophiles, | **4** | **2nd week of February – 1st week of March** | * **Lectures**
* **Class discussion**
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| Reformatsky reaction, prkin condensation.**Active methylene compounds**Tautomerism, Preparation and synthetic applications of EAA | **4** | **3rd week of March- 2nd week of April** | * **Lectures**
* **Class discussion**
* **Test**
* **Assignment**
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| **Diazonium salts**Preparation, Reactions- Conversion to Benzene, phenol and dyes | **2** | **3rd week of April -** **4th week of April** | * **Lectures**
* **Problem solving**
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 Dr. Anjali Sehrawat

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