**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\** |
| 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** |
| 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** |
| **Diazonium salts**  Preparation, Reactions- Conversion to Benzene, phenol and dyes | **2** | **3rd week of April -**  **4th week of April** | * **Lectures** * **Problem solving** |

Dr. Anjali Sehrawat

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