Lesson Plan for session:-2023-24

B.Sc.3rd sem Organic Chemistry Name of Teacher:-Kavita Yadav

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| Week | Topic |
| 1 | **Section A:-** Alcohols:- Nomenclature and method of preparation |
| 2 | \*Physical and Chemical properties of alcohols |
| 3 | \*Dihydric alcohols- nomenclature, method of preparation  \*pinacol-pinacolone rearrangement |
| 4 | Epoxides:- Synthesis and Chemical properties  \*Reactions of RMgX and RLi with epoxides |
| 5 | **Section B**:- Phenols- Nomenclature, Preparation and Physical properties. |
| 6 | \*reactions of Phenols |
| 7 | **Section C**:- UV Spectroscopy  \*Absorption Laws  \*Molar absorptivity \*Presentation and analysis of UV Spectra |
| 8 | \*Types of electronic transitions |
| 9 | \*Effect of conjugation  \*Concepts of Chromophore and Auxochrome |
| 10 | \*Bathochromic, Hypsochromic, hyperchromic and hypochromic shift  \*Woodward-Fieser rules |
| 11 | \*Applications of UV Spectroscopy |
| 12 | **Section D**:- Carboxylic acid and Acid derivatives  \*Nomenclature, prepration and physical properties |
| 13 | \*Reactions of carboxylic acid  \*Acid Chlorides- preparation and properties |
| 14 | \*Esters- preparation and properties  \*Amides- preparation and properties |
| 15 | \*Acid anhydrides- preparation and properties  \*Mechanism of esterification and hydrolysis |
| 16 | \*Revision of difficult topics |
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