Lesson Plan for session:-2023-24

B.Sc.1st sem Organic Chemistry Name of Teacher:-Kavita Yadav

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| Week | Topic |
| 1 | **Section A**:- Structure and Bonding- Localised and delocalized chemical bond  \*vanderwaal’s interactions \* Resonance |
| 2 | \*Hyperconjugation \* Inductive \*Electromeric  \*comparison of electronic effects |
| 3 | \*Stereochemistry of Organic compound-I |
| 4 | \*Optical isomerism, elements of symmetry, molecular chirality  \*Enantiomers and diastereomers |
| 5 | \*Resolution of enantiomers  \*inversion, retension and racemisation |
| 6 | **Section B**:- Stereochemistry of Organic compound-II  \*RS nomenclature |
| 7 | \*Geometric isomerism  \*Conformational isomerism |
| 8 | **SectionC**:- Mechanism of organic reactions  \*Electropjile and nucleophile \*Types of organic reactions |
| 9 | \*Reactive Intermediates- Carbocation, carbanion, freeradical, nitrene,carbenes and arynes |
| 10 | **Section D**:- Alkanes and cycloalkanes  \*IUPAC Nomenclature |
| 11 | \*Isomerism  \*Method of prepration and properties |
| 12 | \*Cycloalkanes- nomenclature, synthesis and derivaties  \*photochemical (2+2) cycloadditon reactions |
| 13 | \*Dehalogenation of dihalides  \*Baeyers strain theory |
| 14 | \*Theory of strainless rings  \*Pyrolysis of Calcium and barium salt |
| 15 | \*revision of previous concepts |
| 16 | \*revision of previous difficults topics |
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