Lesson Plan for session:-2023-24

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

|  |  |
| --- | --- |
| 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 |
|  |  |