**IGN COLLEGE, LADWA**

**DEPARMENT OF CHEMISTRY**

**LESSON PLAN**

**Name of Teacher: Ms. Kirna Devi Academic Session: 2021-22**

**Semester: Even Month: April-2022**

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| S.No | Subject | Class | Topic/Chapter to be covered | Other Activity |
| 1 | Physical Chemistry | B.Sc II sem | Kinetics: Rate of reaction, rate equation and its types, Order of a reaction etc | Introduction of Syllabi and discussion of programme and course outcomes |
| 2 | Organic Chemistry | B.Sc II sem | Alkenes: Nomenclature and Chemical reactions | Introduction of Syllabi and discussion of programme and course outcomes |
| 3 | Physical Chemistry | B.Sc IV sem | Second law of thermodynamics, Carnot’s cycles and its efficiency, Concept of entropy | Introduction of Syllabi and discussion of programme and course outcomes |
| 4 | Organic Chemistry | B.Sc IV sem | Infrared (IR) absorption spectroscopy, selection rules, Applications of IR spectroscopy | Introduction of Syllabi and discussion of programme and course outcomes |
| 5 | Organic Chemistry | B.Sc VI sem | Organic Synthesis via Enolates | Introduction of Syllabi and discussion of programme and course outcomes |

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**Semester: Even Month: May-2022**

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| S.No | Subject | Class | Topic/Chapter to be covered | Other Activity |
| 1 | Physical Chemistry | B.Sc II sem | Kinetics: Theories of reaction rate | Poster display competition |
| 2 | Organic Chemistry | B.Sc II sem | Arenes and Aromaticity, Aromatic electrophilic substitution reactions, Alkynes: Preparation and properties |  |
| 3 | Physical Chemistry | B.Sc IV sem | Third law of thermodynamics: Nernst heat theorem, Gibbs function (G) and Helmholtz function (A) |  |
| 4 | Organic Chemistry | B.Sc IV sem | Amines: Structure, nomenclature, physical and chemical properties | Expert Lecture and Poster display competition |
| 5 | Organic Chemistry | B.Sc VI sem | Heterocyclic Compounds: Methods of synthesis and chemical reactions | Expert Lecture and Poster display competition |

**Name of Teacher: Ms. Kirna Devi Academic Session: 2021-22**

**Semester: Even Month: June-2022**

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| S.No | Subject | Class | Topic/Chapter to be covered | Other Activity |
| 1 | Physical Chemistry | B.Sc II sem |  Electrochemistry: Electrolytic conduction and various conductance | Presentations and Assignment, discussion on Assignment |
| 2 | Organic Chemistry | B.Sc II sem | Dienes and Alkynes: Structure and chemical Properties | Presentations and Assignment, discussion on Assignment  |
| 3 | Physical Chemistry | B.Sc IV sem | Electrolytic and Galvanic cell, Types of reversible electrodes | Presentations  |
| 4 | Organic Chemistry | B.Sc IV sem | Diazonium Salts: Mechanism of diazotisation, structure etc | Presentations and Assignment, discussion on Assignment |
| 5 | Organic Chemistry | B.Sc VI sem | Amino Acids, Peptides & Proteins | Presentations and Test, discussion on Test |

**Name of Teacher: Ms. Kirna Devi Academic Session: 2021-22**

**Semester: Even Month: July-2022**

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| S.No | Subject | Class | Topic/Chapter to be covered | Other Activity |
| 1 | Physical Chemistry | B.Sc II sem | Electrochemistry: solubility product of sparingly soluble salts, conducto-metric titrations, Buffer solution, Buffer action etc | Presentations and discussion on previous years questions |
| 2 | Organic Chemistry | B.Sc II sem | Alkyl and Aryl Halides: Nomenclature, methods of formation, chemical reactions of alkyl halides | Presentations and discussion on previous years questions |
| 3 | Physical Chemistry | B.Sc IV sem | Standard Hydrogen and reference electrodes etc | Presentations and Test, discussion on Test and previous years questions  |
| 4 | Organic Chemistry | B.Sc IV sem | Aldehydes and Ketones: Nomenclature and structure and chemical reactions of the carbonyl group | Presentations and discussion on previous years questions |
| 5 | Organic Chemistry | B.Sc VI sem | Synthetic Polymers: Types of Polymerization. Various Polymers etc | Presentations and discussion on previous years questions |