Lesson Plan

Name of Assistant/Associate Professor: Priti Rani Class and section: B.Sc I

Chemistry Lesson Plan: Week (From January 2024 to April 2024)

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| **Chapter 1 Hydrogen –Bonding &Vander Waal’s Forces** |  |
| * Hydrogen Bonding –Definition * Types of Hydrogen Bonding * Effect of Hydrogen Bonding on Properties of Substance | Jan , Week3rd |
| * Applications of Hydrogen Bonding * Brief discussion of various types of Vander Waal’s forces | Jan , Week 3rd |
| * Introduction of metallic bond * Qualitative Idea of Valence Bond theory * Band theory of metallic bond | Jan , Week 4th |
| * Semiconductors-Introduction * Types & Applications | Jan, Week 4th |
| **Chapter 2: S-Block Elements** |  |
| * Comparative study of the element including diagonal Relationship * Anomalous Behaviour of Li & Bi compared to other Elements in Same Group * Salient feature of hydrides, Oxides | Feb, Week Ist |
| * Salient Feature of Halide And Hydroxide * Behaviour of Solution in liquid NH3 | Feb, Week Ist |
| * Solvation * Complexation tendencies including their function in Bio system | Feb , Week 2nd |
| **Chapter 3: Chemistry of Noble Gases** |  |
| * Chemical properties of the noble gases * Emphasis on their low chemical properties | Feb , Week 2nd |
| * Chemistry of xenon * Structure &bonding of fluoride ,oxides & oxyfluorides of xenon | Feb , Week 2nd |
| **Chapter 4: p-Block Elements** |  |
| * Electronic Configuration * Atomic size & Ionic size * Metallic Character * Melting Point | Feb, Week 3rd |
| * Ionization Energy * Electron Affinity * Electronegativity | Feb, Week 3rd |
| * Inert Pair Effect * Diagonal Relationship | Feb,, Week 4th |
| o **Test of Chapter 1 And 2** |  |
| * Diborane * Properties & Structure of Diborane * Borazine & its structure * Chemical properties of Borazine | Mar, Week Ist |
| o Trihalides of Boron | Mar, Week 2nd |

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| * Relative Strength of Trihalides of Boron as Lewis Acid * Structure of Aluminium (III) Chloride |  |
| * Catenation * Carbides * Fluoro Carbons | Mar, Week 2nd |
| * Silicates * Types and Structure of Silicates | Mar, Week 3rd |
| * Silicones –General methods of preparations * Properties & its uses | Mar, Week 3rd |
| * Oxides-structure of oxides of N & P * Oxoacids –Structure & relative acid Strength of Oxoacids of N & P | Mar,, Week 4th |
| o Structure of white ,yellow & Red phosphorous |  |
| * Oxoacids of Sulphur * Structure & Acid strength | Mar, Week 4th |
| * H2O2 * Properties and Uses | April, Week Ist |
| o Basic Properties of Halogens | April,, Week Ist |
| * Interhalogen Compound * Their Types and Structure | April , Week 2nd |
| * Hydra and Oxy Acids of Chlorine * Structure and Acidic Strength | April, Week 2nd |
| o Cationic Nature of Iodine | April,, Week 3rd |
| o Problems From S-block and P-block Elements | April , Week 3rd |
| o Revision |  |
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