**CURRICULUM PLAN (EVEN SEMESTER 2023-24)**

**Teacher Name: Dr. Anjali Sehrawat**

**Course: BSc. Life Science, III year (Semester VI)**

**Paper Name: Organometallics, Bio-inorganic Chemistry, Polynuclear Hydrocarbons and UV, IR Spectroscopy (LOCF) (1 period per week),**

**Paper shared with Dr. Meenakhi Verma, Dr Rajita and Dr Kapil Mohan Saini**

**UPC: 42177926**

| **Contents** | **Allocation of lectures** | **Month wise schedule to be followed** | **Tutorial/Assignments/**  **Presentations etc.** |
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| **Unit 1:**  **Chemistry of 3d elements**  General discussion of 3d metals. Oxidation states displayed by Cr, Fe, Co, Ni and Cu. A study of the following compounds (including preparation and important properties): K2Cr2O7, KMnO4, K4[Fe(CN)6] . | **6** | **3rd week of January - 4th week of February** | * **Syllabus Overview** * **Reference book** * **Lectures** * **General discussion** |
| **Unit 2**  **Organometallic Compounds**  Definition and classification with appropriate examples based on nature of metal-carbon bond (ionic, s, p and multicentre bonds). Structure and bonding of methyl lithium and Zeise’s salt. Structure and physical properties of ferrocene. | **7** | **1st week of March - 4th week of April** | * **Lectures** * **Class discussion** * **Assignment distribution** * **Discussion of previous years question papers** |

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