**Summary of Lesson Plans of College Faculty**

**Name of College: Indira Gandhi National College, Ladwa (KKR) Academic Session: 2021-22 Semester: Odd For the Month of October 2021**

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| **Sr. No.** | **Name of Assistant/ Associate Professor** | **Subject** | **Topics/Chapter to be covered** | **Academic Activity to be organized** | **Topic of Assignments/Tests to be given to the students** |
|  |  |  | **B.Sc. I** |  |  |
| 1. | Dr. Amit Kumar |  Inorganic Chemistry | Atomic Structure | Orientation Programme/ Subject Awareness Lecture |  |
| 2. | Dr. R.K. Chauhan | Physical Chemistry | Gaseous States |  |  |
| 3.  | Dr. R.K. Chauhan | Organic Chemistry | Structure and Bonding |  |  |
|  |  |  | **B.Sc. II** |  |  |
| 1. | Dr. Amit Kumar | Inorganic Chemistry | Chemistry of d-Block elements: Upto comparison of properties of 3d elements with 4d and 5d elements  |  |  |
| 2. | Dr. Amit Kumar | Physical Chemistry | Thermodynamics: Upto Heat Capacity  |  |  |
| 3.  | Dr. R.K. Chauhan | Organic Chemistry | Alcohols |  |  |
|  |  |  | **B.Sc. III** |  |  |
| 1. | Dr. Amit Kumar | Inorganic Chemistry | Metal- Ligand Bonding in Transition Metal complexes |  |  |
| 2. | Dr. Amit Kumar | Physical Chemistry | Quantum Mechanics-I |  |  |
| 3.  | Dr. R.K. Chauhan | Organic Chemistry | NMR Spectroscopy: Upto deshielding of protons  |  |  |

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| **Sr. No.** | **Name of Assistant/ Associate Professor** | **Subject** | **Topics/Chapter to be covered** | **Academic Activity to be organized** | **Topic of Assignments/Tests to be given to the students** |
|  |  |  | **B.Sc. I** |  |  |
| 1. | Dr. Amit Kumar |  Inorganic Chemistry | Periodic table and atomic properties | Workshop on Safety measures in Chemistry lab and safety symbols. |  |
| 2. | Dr. R.K. Chauhan | Physical Chemistry | Critical Phenomenon |  |
| 3.  | Dr. R.K. Chauhan | Organic Chemistry | Stereochemistry of Organic Compounds |  |
|  |  |  | **B.Sc. II** |  |  |
| 1. | Dr. Amit Kumar | Inorganic Chemistry | Chemistry of d-Block elements: Latimer and Frost diagrams, Structure and properties of some compounds of transition elements | Workshop on Safety measures in Chemistry lab and safety symbols. |  |
| 2. | Dr. Amit Kumar | Physical Chemistry | Thermodynamics: From Joule–Thomson coefficient |  |
| 3.  | Dr. R.K. Chauhan | Organic Chemistry | Phenols and Epoxides |  |
|  |  |  | **B.Sc. III** |  |  |
| 1. | Dr. Amit Kumar | Inorganic Chemistry | Thermodynamics and kinetic aspects of metal complexes  | Workshop on Safety measures in Chemistry lab and safety symbols. |  |
| 2. | Dr. Amit Kumar | Physical Chemistry | Physical Properties and Molecular Structure |  |
| 3.  | Dr. R.K. Chauhan | Organic Chemistry | NMR Spectroscopy: From proton counting  |  |

**Summary of Lesson Plans of College Faculty**

**Name of College: Indira Gandhi National College, Ladwa (KKR) Academic Session: 2021-22 Semester: Odd For the Month of December 2021**

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| **Sr. No.** | **Name of Assistant/ Associate Professor** | **Subject** | **Topics/Chapter to be covered** | **Academic Activity to be organized** | **Topic of Assignments/Tests to be given to the students** |
|  |  |  | **B.Sc. I** |  |  |
| 1. | Dr. Amit Kumar |  Inorganic Chemistry | Covalent Bond | Poster Making/Power point presentation competition.**-----**------ | Assignment on Atomic Properties |
| 2. | Dr. R.K. Chauhan | Physical Chemistry | Liquid States | Assignment on Molecular theory of Gases |
| 3.  | Dr. R.K. Chauhan | Organic Chemistry | Mechanism of Organic Reactions |  |
|  |  |  | **B.Sc. II** |  |  |
| 1. | Dr. Amit Kumar | Inorganic Chemistry | Coordination compounds  | Poster Making/Power point presentation competition. |  |
| 2. | Dr. Amit Kumar | Physical Chemistry | Chemical equilibrium | Assignment on Thermodynamical properties |
| 3.  | Dr. R.K. Chauhan | Organic Chemistry | Ultraviolet (UV) absorption spectroscopy | Assignment on Alcohols and Phenols |
|  |  |  | **B.Sc. III** |  |  |
| 1. | Dr. Amit Kumar | Inorganic Chemistry | Magnetic properties of Transition metal complexes | Poster Making/Power point presentation competition. | Assignment on Metal- Ligand Bonding and Stability of Transition metal complexes |
| 2. | Dr. Amit Kumar | Physical Chemistry | Spectroscopy, Rotational and vibrational spectrum |  |
| 3.  | Dr. R.K. Chauhan | Organic Chemistry | Carbohydrates | Assignment on Structure elucidation by NMR |

**Summary of Lesson Plans of College Faculty**

**Name of College: Indira Gandhi National College, Ladwa (KKR) Academic Session: 2021-22 Semester: Odd For the Month of January 2022**

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| **Sr. No.** | **Name of Assistant/ Associate Professor** | **Subject** | **Topics/Chapter to be covered** | **Academic Activity to be organized** | **Topic of Assignments/Tests to be given to the students** |
|  |  |  | **B.Sc. I** |  |  |
| 1. | Dr. Amit Kumar |  Inorganic Chemistry | Ionic Solids  |  | **--** |
| 2. | Dr. R.K. Chauhan | Physical Chemistry | Solid State |  |  |
| 3.  | Dr. R.K. Chauhan | Organic Chemistry | Alkanes and Cycloalkanes |  | Test on Isomerism |
|  |  |  | **B.Sc. II** |  |  |
| 1. | Dr. Amit Kumar | Inorganic Chemistry | Non-aqueous solvents |  | Test on Coordination compounds |
| 2. | Dr. Amit Kumar | Physical Chemistry | Distribution Law  |  | **---** |
| 3.  | Dr. R.K. Chauhan | Organic Chemistry | Carboxylic Acids & Acid Derivatives |  |  |
|  |  |  | **B.Sc. III** |  |  |
| 1. | Dr. Amit Kumar | Inorganic Chemistry | Electronic spectra of Transition metal complexes |  |  |
| 2. | Dr. Amit Kumar | Physical Chemistry | Raman Spectrum |  | Test of Spectroscopy |
| 3.  | Dr. R.K. Chauhan | Organic Chemistry | Organo-metallic compounds  |  |  |