**PG.GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan Odd Semester (For UG-PG Ongoing Classes)**

**Session (2023-2024)**

**Class: B.Sc. III**   **Name of the Teacher: Prof. (Dr.) Deepika Kansal**

**Subject: Chemistry Period: 2nd**

**Paper: A & C Room No: 29 (Mon, Tues, Fri & Sat) Section A & B**

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| **S. No** | **Dates** | **Topics to be covered** |
| Week 1 | 21-07-2023 to 22-07-2023 | Introduction to Photochemistry- Section A & B |
| Week 2 | 24-07-2023 to 28-07-2023 | Laws of Absorption |
| Week 3 | 31-07-2023 to 05-08-2023 | Laws of Photochemistry |
| Week 4 | 07-08-2023 to 12-08-2023 | Quantum Efficiency |
| Week 5 | 14-08-2023 to 19-08-2023 | Photochemical Reactions |
| Week 6 | 21-08-2023 to 26-08-2023 | Luminiscence |
| Week 7 | 28-08-2023 to 02-09-2023 | Jablonski Diagram |
| Week 8 | 04-09-2023 to 09-09-2023 | Limitations of VB Theory |
| Week 9 | 11-09-2023 to 16-09-2023 | Crystal Field Theory Concept |
| Week 10 | 18-09-2023 to 23-09-2023 | Metal Ligand bonding |
| Week 11 | 25-09-2023 to 30-09-2023 | Crystal Field Splitting |
| Week 12 | 03-10-2023 to 07-10-2023 | Spectrochemical Series |
| Week 13 | 09-10-2023 to 14-10-2023 | Revision & Tests |
| **Mid Semester Exam (16th October 2023 – 21st October, 2023)** | | |
| Week 15 | 25-10-2023 to 27-10-2023 | Thermodynamics & Kinetic aspects |
| Week 16 | 31-10-2023 to 04-11-2023 | Factors affecting the stability of metal complexes |
| Week 17 | 06-11-2023 to 11-11-2023 | Substitution reactions of square planar complexes |
| Week 18 | 14-11-2023 to 18-11-2023 | Revision of whole syllabus |

**PG.GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan Odd Semester (For UG-PG Ongoing Classes)**

**Session (2023-2024)**

**Class: B.Sc. III**   **Name of the Teacher: Dr. Anil Kumar Mankotia**

**Subject: Chemistry Period: 2nd & 6th**

**Paper: A & B Room No: 29 (Fri. & Sat.) Section A & B**

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| **S. No** | **Dates** | **Topics to be covered** |
| Week 1 | 21-07-2023 to 22-07-2023 | Carbohydrates Section- A & B |
| Week 2 | 24-07-2023 to 28-07-2023 | Carbohydrates Section- A & B |
| Week 3 | 31-07-2023 to 05-08-2023 | Carbohydrates Section- A & B |
| Week 4 | 07-08-2023 to 12-08-2023 | Carbohydrates Section- A & B |
| Week 5 | 14-08-2023 to 19-08-2023 | Electromagnetic Spectrum |
| Week 6 | 21-08-2023 to 26-08-2023 | Electromagnetic Spectrum |
| Week 7 | 28-08-2023 to 02-09-2023 | Electromagnetic Spectrum |
| Week 8 | 04-09-2023 to 09-09-2023 | Electromagnetic Spectrum |
| Week 9 | 11-09-2023 to 16-09-2023 | Electromagnetic Spectrum |
| Week 10 | 18-09-2023 to 23-09-2023 | Nuclear Magnetic Resonance spectroscopy |
| Week 11 | 25-09-2023 to 30-09-2023 | Nuclear Magnetic Resonance spectroscopy |
| Week 12 | 03-10-2023 to 07-10-2023 | Nuclear Magnetic Resonance spectroscopy |
| Week 13 | 09-10-2023 to 14-10-2023 | Revision & Tests |
| **Mid Semester Exam (16th October 2023 – 21st October, 2023)** | | |
| Week 15 | 25-10-2023 to 27-10-2023 | Infrared Absorption spectroscopy |
| Week 16 | 31-10-2023 to 04-11-2023 | Infrared Absorption spectroscopy |
| Week 17 | 06-11-2023 to 11-11-2023 | Infrared Absorption spectroscopy |
| Week 18 | 14-11-2023 to 18-11-2023 | Revision & Tests |

**PG.GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan Odd Semester (For UG-PG Ongoing Classes)**

**Session (2023-2024)**

**Class: B.Sc. II**   **Name of the Teacher: Dr. Seema Gupta**

**Subject: Chemistry Period : 4th**

**Paper : B Room No : 29 (Fri. & Sat.) Section A Room No: 126 (Mon. & Tues.)Section B**

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| **S. No** | **Dates** | **Topics to be covered** |
| Week 1 | 21-07-2023 to 22-07-2023 | Alcohols in Section A & B |
| Week 2 | 24-07-2023 to 28-07-2023 | Alcohols in Section A & B |
| Week 3 | 31-07-2023 to 05-08-2023 | Alcohols in Section A & B |
| Week 4 | 07-08-2023 to 12-08-2023 | Phenols in Section A & B |
| Week 5 | 14-08-2023 to 19-08-2023 | Phenols in Section A & B |
| Week 6 | 21-08-2023 to 26-08-2023 | Aldehydes and Ketones-1 in Section A & B |
| Week 7 | 28-08-2023 to 02-09-2023 | Aldehydes and Ketones-1 in Section A & B |
| Week 8 | 04-09-2023 to 09-09-2023 | Aldehydes and Ketones-1 in Section A & B |
| Week 9 | 11-09-2023 to 16-09-2023 | Aldehydes and Ketones-2 in Section A & B |
| Week 10 | 18-09-2023 to 23-09-2023 | Aldehydes and Ketones-2 in Section A & B |
| Week 11 | 25-09-2023 to 30-09-2023 | Aldehydes and Ketones-2 in Section A & B |
| Week 12 | 03-10-2023 to 07-10-2023 | Aldehydes and Ketones-2 in Section A & B |
| Week 13 | 09-10-2023 to 14-10-2023 | Revision & Tests |
| **Mid Semester Exam (16th October 2023 – 21st October, 2023)** | | |
| Week 15 | 25-10-2023 to 27-10-2023 | Carboxylic Acids in Section A & B |
| Week 16 | 31-10-2023 to 04-11-2023 | Carboxylic Acids in Section A & B |
| Week 17 | 06-11-2023 to 11-11-2023 | Carboxylic Acids in Section A & B |
| Week 18 | 14-11-2023 to 18-11-2023 | Revision & Tests |

**PG.GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan Odd Semester (For Undergraduate Classes - First Year)**

**Session (2023-2024)**

**Class: B.Sc. I**   **Name of the Teacher: Ms. Puneet Jyoti**

**Subject: Chemistry Period: 3rd**

**Paper: C Room No: 129 (Fri. & Sat.)**

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| **S. No** | **Dates** | **Topics to be covered** |
| Week 1 | 21-07-2023 to 22-07-2023 | Gaseous State |
| Week 2 | 24-07-2023 to 28-07-2023 | Gaseous State |
| Week 3 | 31-07-2023 to 05-08-2023 | Gaseous State |
| Week 4 | 07-08-2023 to 12-08-2023 | Gaseous State |
| Week 5 | 14-08-2023 to 19-08-2023 | Chemical Kinetics |
| Week 6 | 21-08-2023 to 26-08-2023 | Chemical Kinetics |
| Week 7 | 28-08-2023 to 02-09-2023 | Chemical Kinetics |
| Week 8 | 04-09-2023 to 09-09-2023 | Chemical Kinetics |
| Week 9 | 11-09-2023 to 16-09-2023 | Catalysis |
| Week 10 | 18-09-2023 to 23-09-2023 | Catalysis |
| Week 11 | 25-09-2023 to 30-09-2023 | Catalysis |
| Week 12 | 03-10-2023 to 07-10-2023 | Catalysis |
| Week 13 | 09-10-2023 to 14-10-2023 | Revision & Tests |
| **Mid Semester Exam (16th October 2023 – 21st October, 2023)** | | |
| Week 15 | 25-10-2023 to 27-10-2023 | Mathematical Concepts & Analytical Data |
| Week 16 | 31-10-2023 to 04-11-2023 | Mathematical Concepts & Analytical Data |
| Week 17 | 06-11-2023 to 11-11-2023 | Mathematical Concepts & Analytical Data |
| Week 18 | 14-11-2023 to 18-11-2023 | Revision & Tests |

**PG.GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan Odd Semester (For UG-PG Ongoing Classes)**

**Session (2023-2024)**

**Class: B.Sc. II**   **Name of the Teacher: Ms. Puneet Jyoti**

**Subject: Chemistry Period : 4th**

**Paper : C Room No : 29 (Mon. & Tues.)Section A Room No: 126 (Wed. &Thurs.)Section B**

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| **S. No** | **Dates** | **Topics to be covered** |
| Week 1 | 21-07-2023 to 22-07-2023 | Liquid State & Liquid Crystals |
| Week 2 | 24-07-2023 to 28-07-2023 | Liquid State & Liquid Crystals |
| Week 3 | 31-07-2023 to 05-08-2023 | Liquid State & Liquid Crystals |
| Week 4 | 07-08-2023 to 12-08-2023 | Liquid State & Liquid Crystals |
| Week 5 | 14-08-2023 to 19-08-2023 | Chemical Equilibrium |
| Week 6 | 21-08-2023 to 26-08-2023 | Chemical Equilibrium |
| Week 7 | 28-08-2023 to 02-09-2023 | Chemical Equilibrium |
| Week 8 | 04-09-2023 to 09-09-2023 | Chemical Equilibrium |
| Week 9 | 11-09-2023 to 16-09-2023 | Thermodynamics II |
| Week 10 | 18-09-2023 to 23-09-2023 | Thermodynamics II |
| Week 11 | 25-09-2023 to 30-09-2023 | Thermodynamics II |
| Week 12 | 03-10-2023 to 07-10-2023 | Thermodynamics II |
| Week 13 | 09-10-2023 to 14-10-2023 | Revision & Tests |
| **Mid Semester Exam (16th October 2023 – 21st October, 2023)** | | |
| Week 15 | 25-10-2023 to 27-10-2023 | Thermodynamics III |
| Week 16 | 31-10-2023 to 04-11-2023 | Thermodynamics III |
| Week 17 | 06-11-2023 to 11-11-2023 | Thermodynamics III |
| Week 18 | 14-11-2023 to 18-11-2023 | Revision & Tests |

**PG.GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan Odd Semester (For UG-PG Ongoing Classes)**

**Session (2023-2024)**

**Class: B.Sc. III**   **Name of the Teacher: Dr. Gurpreet Kaur**

**Subject: Chemistry Period: 2nd & 6th**

**Paper: A & B Room No: 29 (Wed. & Thurs.) Section A & B**

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| **S. No** | **Dates** | **Topics to be covered** |
| Week 1 | 21-07-2023 to 22-07-2023 | Introduction to Quantum Mechanics-I- Section A & B |
| Week 2 | 24-07-2023 to 28-07-2023 | Black body & its spectral distribution, Planck’s Radiation Law, Compton effect, Photoelectric Effect- Section A & B |
| Week 3 | 31-07-2023 to 05-08-2023 | Postulates of Quantum Mechanics, Schrodinger wave equation, Operators and their Algebra, Mathematical expressions- Section A & B |
| Week 4 | 07-08-2023 to 12-08-2023 | Hermitian operators, expectation values ,Numerical problems-Section A & B |
| Week 5 | 14-08-2023 to 19-08-2023 | Application of Particle in 1-D box and numerical problems based on it - Section A & B |
| Week 6 | 21-08-2023 to 26-08-2023 | Solution of Hydrogen -atom- Section A & B |
| Week 7 | 28-08-2023 to 02-09-2023 | Organometallic Chemistry- nomenclature & Classification- Section A & B |
| Week 8 | 04-09-2023 to 09-09-2023 | Preparation, Properties, Bonding & Applications- Section A & B |
| Week 9 | 11-09-2023 to 16-09-2023 | Preparation, Properties, Bonding & Applications- Section A & B |
| Week 10 | 18-09-2023 to 23-09-2023 | Preparation, Properties, Bonding & Applications- Section A & B |
| Week 11 | 25-09-2023 to 30-09-2023 | Preparation, Properties, Bonding & Applications- Section A & B |
| Week 12 | 03-10-2023 to 07-10-2023 | Metal-ethylenic complexes, Homogeneous hydrogenation -Section A & B |
| Week 13 | 09-10-2023 to 14-10-2023 | Carbonyls & nature of bonding in metal carbonyls - Section A & B |
| **Mid Semester Exam (16th October 2023 – 21st October, 2023)** | | |
| Week 15 | 25-10-2023 to 27-10-2023 | Quantum mechanics-II |
| Week 16 | 31-10-2023 to 04-11-2023 | Bio-inorganic chemistry- Section A & B |
| Week 17 | 06-11-2023 to 11-11-2023 | Bio-inorganic chemistry- Section A & B |
| Week 18 | 14-11-2023 to 18-11-2023 | Revision & Tests |

**PG.GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan Odd Semester (For Undergraduate Classes - First Year)**

**Session (2023-2024)**

**Class: B.Sc. (Biotech Honours) I**   **Name of the Teacher: Dr. Gurpreet Kaur**

**Subject: Chemistry Period: 1st**

**Paper: Chemistry Room No: 111 (Mon., Tues., Fri. & Sat.)**

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| **S. No** | **Dates** | **Topics to be covered** |
| Week 1 | 21-07-2023 to 22-07-2023 | Photochemistry |
| Week 2 | 24-07-2023 to 28-07-2023 | Photochemistry |
| Week 3 | 31-07-2023 to 05-08-2023 | Solutions |
| Week 4 | 07-08-2023 to 12-08-2023 | Chemical Kinetics |
| Week 5 | 14-08-2023 to 19-08-2023 | Chemical Kinetics, Fundamentals |
| Week 6 | 21-08-2023 to 26-08-2023 | Fundamentals |
| Week 7 | 28-08-2023 to 02-09-2023 | Periodic properties |
| Week 8 | 04-09-2023 to 09-09-2023 | Chemical bonding |
| Week 9 | 11-09-2023 to 16-09-2023 | Chemical bonding |
| Week 10 | 18-09-2023 to 23-09-2023 | Molecular Spectroscopy |
| Week 11 | 25-09-2023 to 30-09-2023 | Molecular Spectroscopy |
| Week 12 | 03-10-2023 to 07-10-2023 | Molecular Spectroscopy |
| Week 13 | 09-10-2023 to 14-10-2023 | Revision & Tests |
| **Mid Semester Exam (16th October 2023 – 21st October, 2023)** | | |
| Week 15 | 25-10-2023 to 27-10-2023 | Coordination compounds |
| Week 16 | 31-10-2023 to 04-11-2023 | Carboxylic acids & derivatives |
| Week 17 | 06-11-2023 to 11-11-2023 | Carboxylic acids & derivatives |
| Week 18 | 14-11-2023 to 18-11-2023 |  |

**PG.GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan Odd Semester (For Undergraduate Classes - First Year)**

**Session (2023-2024)**

**Class: B.Sc. I**   **Name of the Teacher: Dr. Ankita**

**Subject: Chemistry Period: 3rd**

**Paper: C Room No: 129 (Mon. to Thurs.)**

|  |  |  |
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| **S. No** | **Dates** | **Topics to be covered** |
| Week 1 | 21-07-2023 to 22-07-2023 | Atomic Structure |
| Week 2 | 24-07-2023 to 28-07-2023 | Atomic Structure |
| Week 3 | 31-07-2023 to 05-08-2023 | Periodic Properties |
| Week 4 | 07-08-2023 to 12-08-2023 | Periodic Properties |
| Week 5 | 14-08-2023 to 19-08-2023 | s-block Elements |
| Week 6 | 21-08-2023 to 26-08-2023 | Noble Gases |
| Week 7 | 28-08-2023 to 02-09-2023 | Structure and Bonding |
| Week 8 | 04-09-2023 to 09-09-2023 | Mechanism of Organic Reactions |
| Week 9 | 11-09-2023 to 16-09-2023 | Alkanes and Cycloalkanes |
| Week 10 | 18-09-2023 to 23-09-2023 | Alkanes and Cycloalkanes |
| Week 11 | 25-09-2023 to 30-09-2023 | Stereochemistry of Organic Compounds-I |
| Week 12 | 03-10-2023 to 07-10-2023 | Stereochemistry of Organic Compounds-I |
| Week 13 | 09-10-2023 to 14-10-2023 | Revision & Tests |
| **Mid Semester Exam (16th October 2023 – 21st October, 2023)** | | |
| Week 15 | 25-10-2023 to 27-10-2023 | Chemical Bonding-I: Covalent Bond |
| Week 16 | 31-10-2023 to 04-11-2023 | Chemical Bonding-I: Covalent Bond and Stereochemistry of Organic Compounds-II |
| Week 17 | 06-11-2023 to 11-11-2023 | Stereochemistry of Organic Compounds-II |
| Week 18 | 14-11-2023 to 18-11-2023 | Revision & Tests |

**PG.GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan Odd Semester (For UG-PG Ongoing Classes)**

**Session (2023-2024)**

**Class: B.Sc. II**   **Name of the Teacher: Dr. Ankita**

**Subject: Chemistry Period: 4th**

**Paper: A Room No : 29 (Wed. &Thurs.) Section A Room No: 126 (Fri. & Sat.) Section B**

|  |  |  |
| --- | --- | --- |
| **S. No** | **Dates** | **Topics to be covered** |
| Week 1 | 21-07-2023 to 22-07-2023 | Chemistry of Coordination Compounds-I |
| Week 2 | 24-07-2023 to 28-07-2023 | Chemistry of Coordination Compounds-I |
| Week 3 | 31-07-2023 to 05-08-2023 | Chemistry of Coordination Compounds-I |
| Week 4 | 07-08-2023 to 12-08-2023 | Chemistry of Coordination Compounds-I |
| Week 5 | 14-08-2023 to 19-08-2023 | Chemistry of Coordination Compounds-II |
| Week 6 | 21-08-2023 to 26-08-2023 | Chemistry of Coordination Compounds-II |
| Week 7 | 28-08-2023 to 02-09-2023 | Chemistry of Coordination Compounds-II |
| Week 8 | 04-09-2023 to 09-09-2023 | Chemistry of Coordination Compounds-II |
| Week 9 | 11-09-2023 to 16-09-2023 | Chemistry of Elements of First Transition Series |
| Week 10 | 18-09-2023 to 23-09-2023 | Chemistry of Elements of First Transition Series |
| Week 11 | 25-09-2023 to 30-09-2023 | Chemistry of Elements of First Transition Series |
| Week 12 | 03-10-2023 to 07-10-2023 | Chemistry of Elements of First Transition Series |
| Week 13 | 09-10-2023 to 14-10-2023 | Revision & Tests |
| **Mid Semester Exam (16th October 2023 – 21st October, 2023)** | | |
| Week 15 | 25-10-2023 to 27-10-2023 | Chemistry of Elements of Second & Third Transition Series |
| Week 16 | 31-10-2023 to 04-11-2023 | Chemistry of Elements of Second & Third Transition Series |
| Week 17 | 06-11-2023 to 11-11-2023 | Chemistry of Elements of Second & Third Transition Series |
| Week 18 | 14-11-2023 to 18-11-2023 | Revision & Tests |