

P.G. College, Safidon (Session-2025-26) Lesson Plan

Name of Teacher :- Poonam Rani

Designation :- Extension Lecturer

Subject :- Chemistry (Major)

Class :- B.Sc-III (Life Science & Physical Science)

Sr. No.	Month	Topic to be covered
1.	August	Co-ordination Compound: Theories, nomenclature, isomerism, EAN, chelates. M-L Bonding in Transition metal complexes: VBT, CFT in octahedral & tetrahedral complexes. Magnetic Properties of Transition Metals.
2.	September	Thermodynamics-II: Third Law, Nernst heat theorem, Residual Entropy, Gibbs function & Helmholtz function Phase Equilibria: Gibbs phase rule, one and two-component system.
3.	October	Quantum Mechanics-I: Need, Postulates, operators, Role of operators. Derivation and application of Schrodinger wave Equation Spectroscopy: Basic features Rotational Spectroscopy & its application. Unit Test & Assignment.
4.	November	Heterocyclic Compound: characteristics of pyrrole, furan, thiophene & pyridine. Method of synthesis, mechanism of reactions. Acidity of α -hydrogen & their reactions, claisen condensations & keto-enol tautomerism. Revision & Unit Test.

Lesson-Plan (Session-2025-26)

Name of Teacher :- Poonam Rani

Designation :- Extension Lecturer

Subject :- Chemistry (Introductory Chemistry)

Class :- M.D.C-3rd sem

Sr. No.	Month	Topic to be covered
1.	August	Plastic and polyethene pollution. Pollution sources, Recycling of plastic. Green house effect, Ozone depletion.
2.	September	Energy sources, renewable and non-renewable. Source, Cell, polymer cell. Unit Test.
3.	October	Source of drinking water and uses. Water conservation, permissible TDS. Techniques of purification of water. R.O water purification Assignment.
4.	November	Pesticides, herbicides, general introduction. Biological control and chemical control. Benefits and adverse effect of DDT, BHC Unit test and Revision.

Lesson Plan (Session 2025-26)

Name of Teacher :- Poonam Rani

Designation :- Extension Lecturer

Subject :- Chemistry (Introductory chemistry)

Class :- M.D.C - 1st Sem.

Sr. No.	Month	Topic To be Covered
1.	August	Introduction to atomic Structure and Chemical Bonding. Representation element, lewis Structure. Electronic Configuration.
2.	September	Introduction to tetravalance and allotropes of carbon and their properties. Hydrocarbon : Nomenclature and their Applications.
3.	October	Polymer : Introduction, homo and copolymer Properties and users of Rubber, Polyethene, Teflon, PVC, PAN, Nylon-66. Unit Test and Assignment.
4.	November	Elementary idea of food preservation. Artificial Sweeteners, uses and properties. Revision.