

Govt. College, Safidon (Jind)-126112

Session: 2024-25 (Even- Semester)

Lesson Plan

Class: B.Sc-IV Sem

Name of the Teacher: Seema Rani

Subject: Chemistry
(VOC minor)

Sr. No.	Months	Topic
1	Jan	Plants as producers, photosynthesis, pesticides herbicide, fungicide, storage and preservation of agriculture produce.
	Feb	food processing, chemicals (alcohols) use of polymers in agriculture (Assignment-1) Soil fertility and soil productivity, Urea cycle, Organic and inorganic nitrogen (Haber Bosch process) Test-I
	March	Chemical composition of the earth's crust and soils, Chemistry of acid soil, chemistry of acid soil. (Assignment-II)
	April	Soil management and amendments Nature and sources of pollutants acid rains, oil spills, air, water and soil pollutants - their CPC standards and effect on plants, animals and human beings, soil as sink for waste disposal, (Test-II)
	May	

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Session: 2024-25 (Even- Semester)

Class: B.Sc - IVth Sem

Lesson Plan

Name of the Teacher: Seema Rani

Subject: Chemistry
(major)

Sr. No.	Months	Topic
1	Jan	Chemistry of d-Block elements, Compare of ionic radii 3d, 4d, 5d series elements Structure of TiO_2 , $VOCl_2$, $FeCl_3$, $CuCl_2$ and $Ni(CO)_4$ Chemistry of f-Block elements. Assignment-I
	Feb	Theory of Qualitative and Quantitative Analysis Theory of precipitation, co-precipitation, post precipitation, purification of precipitation. Test-I
	march	Alcohols, nomenclatures, methods of formation by reduction of aldehydes, Ketones Carboxylic acid and esters, Phenols, preparation, electrophilic aromatic substitution
	April	Aldehyde and Ketones, Thermodynamics-I First law of thermodynamics, internal energy enthalpy, Heat capacity, Joule-Thomson coefficient
	May	Chemical Equilibrium constant, temperature dependence of equilibrium constant, Clausius-Clapeyron equation and its applications Test-II Assignment-II

Govt. College, Safidon (Jind)-126112

Session: 2024-25 (Even- Semester)

Class: B.Sc-IIIrd year

Lesson Plan

Name of the Teacher: Seema Loni

Subject: Chemistry

Sr. No.	Months	Topic
1	Jan	Organic Synthesis via Enolates, Acidity of α -hydrogens, alkylation of diethyl malonate and ethyl acetoacetate, Heterocyclic compounds. Assignment-I
	Feb	characteristic of pyrrole, furan, thiophene, pyridine, Electrophilic substitution K_p^1 , quinoline, isoquinoline, indole, Mech ⁿ of electrophilic substitution K_p^2 , Test-I
	March	Amino acid, Peptide, Proteins, Preparation, structure, classification of proteins, Synthetic polymers, Natural and synthetic rubbers, Assignment-II
	April	Organometallic chemistry, bonding of alkyls of Li, Al, Mg, Sn, mononuclear carbonyls, Acid and Bases, HSAB concept, Test-II
	May	Bioinorganic chemistry, metalloporphyrin with to haemoglobin and myoglobin, Nitrogen fixation