

Lesson Plan for the Month August 2022 to December 2022		Subject: Chemistry	
Name of the Teacher	Ms. Sarita	Class	Sem-01
23-08-2022 To 27-08-2022	Fundamentals of organic chemistry; Inductive effect, Resonance effect.		
29-08-2022 To 3-09-2022	Hyperconjugation effect. cleavage of bond structure, shape + reactivity of nucleophile + electrophile.		
05-09-2022 To 010-09-2022	Reaction intermediate carbocation, carbanion,		
12-09-2022 To 17-09-2022	Reaction intermediate free radical, Strength of organic acids and bases.		
19-09-2022 To 24-09-2022	Aromaticity: Benzeneoids + Huckel's rule.		
26-09-2022 To 01-10-2022	Stereochemistry: Isomerism, concept of chirality, optical isomers, R+S Nomenclature		
3-10-2022 To 8-10-2022	Geometrical isomers ^{E-Z} + Nomenclature		
10-10-2022 To 15-10-2022	Newmann, Sawhorse projection conformational analysis of ethane, propane.		
17-10-2022 To 21-10-2022	conformational analysis of Butane.		

17-10-2022 To 21-10-2022	
22-10-2022 To 30-10-2022	Break
31-10-2022 To 05-11-2022	conformational isomers of cyclohexane
07-11-2022 To 12-11-2022	Alkanes :- Preparation, Nomenclature & Physical properties.
14-11-2022 To 19-11-2022	Chemical properties of alkanes. cycloalkanes: nomenclature, preparation & physical properties.
21-11-2022 To 26-11-2022	Chemical properties of cycloalkane. Baeyer's strain theory. Alkenes :- Preparation & nomenclature.
28-11-2022 To 03-12-2022	Chemical properties of Alkenes.
05-12-2022 To 10-12-2022	Alkyne: Formation, Nomenclature & physical properties of alkyne.
12-12-2022 To 17-12-2022	Chemical properties of Alkynes.

Sarita

Lesson Plan for the Month August 2022 to December 2022		Subject: Chemistry	
Name of the Teacher	Ms. Sanita	Class	B.Sc. Sem-03
16-08-2022 To 20-08-2022	Chemical Equilibrium - Equilibrium constant and Free energy.		
22-08-2022 To 27-08-2022	concept of chemical potential, Thermodynamic derivation of law of chemical Equilibrium.		
29-08-2022 To 3-09-2022	Van't Hoff reaction isochore, Van't Hoff reaction isotherm.		
05-09-2022 To 010-09-2022	Le-Chatelier's principle + its application.		
12-09-2022 To 17-09-2022	Clausius + Clausius-Clausius equation + its application.		
19-09-2022 To 24-09-2022	Distribution law - Nernst distribution law + its thermodynamic derivation.		
26-09-2022 To 01-10-2022	Modification of Nernst distribution law when solute undergo association, dissociation or chemical combination.		
3-10-2022 To 8-10-2022	Application of distribution law		
10-10-2022 To 15-10-2022	Applications of distribution law		

17-10-2022 to 21-10-2022	Discussion of problems related to distribution law.
22-10-2022 To 30-10-2022	Break
31-10-2022 To 05-11-2022	Nomenclature of carboxylic acids, structure, bonding, physical properties and acidity.
07-11-2022 To 12-11-2022	Chemical properties of carboxylic acids. + Preparation of carboxylic acids.
14-11-2022 To 19-11-2022	Structure, nomenclature, preparation + chemical properties of acid chlorides + esters.
21-11-2022 To 26-11-2022	Structure, nomenclature, preparation + chemical properties of amides + acid anhydrides.
28-11-2022 To 03-12-2022	Relative stability of acyl derivatives
05-12-2022 To 10-12-2022	← Revision →
12-12-2022 To 17-12-2022	← Revision →

Savita

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Name of the Teacher	Ms. Sarita	Class	B.Sc. Sem-05
16-08-2022 To 20-08-2022	NMR spectroscopy-I - Principle of NMR, PMR spectra, number of signals, peak area, position of signals.		
22-08-2022 To 27-08-2022	Equivalent + non equivalent protons, chemical shift, shielding & deshielding of protons.		
29-08-2022 To 3-09-2022	Proton coupling, splitting of signals + magnetic equivalence of protons.		
05-09-2022 To 010-09-2022	Discussion of PMR spectra of ethyl bromide, propyl bromide, isopropyl bromide, 1,1-dibromoethane, ethanol, acetaldehyde, ethyl acetate, toluene, benzaldehyde + aceto- bi-proton		
12-09-2022 To 17-09-2022	<u>Carbohydrate</u> : - classification & nomenclature, monosaccharides, osazone formation, interconversion of glucose & fructose and epimers, epimerisation.		
19-09-2022 To 24-09-2022	Erythro + threo diastereomers, determination of ring size of glucose & fructose.		
26-09-2022 To 01-10-2022	open + ring structure of glucose, fructose, ribose & deoxyribose.		
3-10-2022 To 8-10-2022	An introduction to disaccharides. organometallic compounds: Grignard reagents formation, structure and chemical reaction.		
10-10-2022 To 15-10-2022	organolithium compounds: - formation and chemical reaction. Organozinc compounds: - formation & chemical reaction.		

17-10-2022 to 21-10-2022	Solution discussion of problem related to organometallic compounds.
22-10-2022 To 30-10-2022	Break
31-10-2022 To 05-11-2022	Quantum Mechanics: Introduction to classical Mechanics
07-11-2022 To 12-11-2022	Black Body radiation, Kirchoff's law, spectral distribution of Black body radiation.
14-11-2022 To 19-11-2022	Planck's radiation law, photoelectric effect, heat capacity of solids, Compton effect, Postulates of quantum mechanics, Quantum mechanical operator.
21-11-2022 To 26-11-2022	Role of operators in quantum mechanics, Determination of wave function + energy of a particle in one dimensional box.
28-11-2022 To 03-12-2022	optical activity, Polarization - Clausius Mossotti equation.
05-12-2022 To 10-12-2022	Dipole Moment + different Methods of Measurement of dipole moment.
12-12-2022 To 17-12-2022	Magnetic permeability, magnetic susceptibility + its determination, magnetic properties.

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