



Koyana Education Society's
Balasaheb Desai College, Patan
Department of Chemistry
Monthly Teaching Plan- Year-2023-2024
July – 2023 Semester – I & V

Name of the Teacher- Prof.Dr. P.D.Kamble

Dates	Unit	Sub unit	Teaching Method Aids
B.Sc.-I			
05/07/2023	Unit II: Chemical Bonding and Molecular Structure: Ionic Bonding (6 hours)	1. Types of Chemical Bonds: a) Ionic Bond b) Covalent Bond c) Co-ordinate bond	Lecture
06/07/2023		2. d) metallic bond e) Hydrogen Bond f) Van-der Waals force.	Lecture
08/07/2023		3. Definition and formation of ionic bond. General characteristics of ionic bonding	Lecture
12/07/2023		4. Energetic in Ionic bond formation.	Lecture -Chart
13/07/2023		5. Born-Haber cycle for NaCl and its applications.	Lecture-Chart
15/07/2023		6. Fajan's Rule, Applications of Fajan's rule for, i) Polarizing power and polarizability	Lecture
19/07/2023		7. ii) Ionic character in covalent compounds iii) Bond moment, dipole moment and percentage ionic character.	Lecture
20/07/2023	Unit III: Chemical Bonding and Molecular structure :Valence bond theory (VBT).	1.VSEPR Theory.	Lecture
22/07/2023		2. Concept of hybridization, different types of hybridization and geometry of following molecules, i) Linear geometry- BeCl ₂ (sp hybridization)	Lecture
26/07/2023		3. ii) Planar trigonal geometry- BF ₃ (sp ² hybridization)	Lecture

27/07/2023		4. iii) Tetrahedral geometry- SiCl_4 (sp^3 hybridization)	Lecture



(Dr. S. D. Pawar)
Principal
Balasaheb Desai College, Patan
Tal.- Patan., Dist.- Satara