First year Chemistry Semester-1

Theory: Chemistry-1: Inorganic, Organic & Physical Chemistry-1 (core)

Block-1: Inorganic Chemistry – 1

Unit-1: Chemistry of Group-IA Elements

Unit-2: Chemistry of Group-IIA Elements

Unit-3: Principles of Semi-micro analysis

Block-2: Organic chemistry -1

Unit-4: Structural theory of organic chemistry

Unit-5: Alkanes and Cyclo Alkanes

Unit-6: Alkenes, and Dienes.

Block-3: Physical Chemistry-1

Unit – 7: Atomic Structure-1

Unit – 8: Atomic Structure-2

Unit − 9: Gaseous state

Block -4: General Chemistry -1

Unit − 10: Periodic table

Unit - 11: Concept of Chemical Bonding and theories of chemical bonding (VBT).

Unit – 12: Molecular Orbital Theory

Practical: Chemistry-1: Semi Micro qualitative analysis

Block – 1: General principles and procedure in semi Micro analysis

Unit − 1: Introduction to semi micro analysis

Unit -2: Reactions and identification of Anions.

Unit − 3: Reactions and identification of Cations-1.

Unit – 4: Reactions and identification of Cations-2.

Block -2: Semi micro analysis of mixture of salts.

Unit – 5: Systematic Qualitative semi micro analysis

Unit -6: Model analysis of a known binary salt mixture-1.

Unit -7: Model analysis of a known binary salt mixture-2

Unit – 8: Analysis of the given unknown binary salt mixture.