

Second year

Semester-3

Chemistry-3: Inorganic, organic & Physical Chemistry-3 (core)

Block - 1: Inorganic Chemistry - 3.

Unit – 1: Chemistry of Group VIA elements

Unit – 2: Chemistry of Group VIIA elements

Unit – 3: Compounds of Zero (VIII A) Group elements.

Block - 2: Organic Chemistry -4.

Unit – 4: Aldehydes & Ketones (Carbonyl compounds).

Unit – 5: Carboxylic acids and its derivatives.

Unit – 6: Carbanion as intermediates in synthesis.

Block-3: Physical Chemistry-3.

Unit – 7: Solutions

Unit – 8: Colligative properties – I

Unit – 9: Colligative properties – II

Block – 4: General Chemistry – 2.

Unit – 10: Nuclear Chemistry

Unit – 11: Colloids, Emulsions

Unit – 12: Adsorption

Semester-3

Practical: Chemistry-3: Preparation of Organic Compounds.

Block - 1: Preparation of organic compounds - 1.

Unit – 1A: Determination of Melting point and boiling point.

Unit – 1B: Preparation of Acetanilide.

Unit – 2: Preparation of Aspirin.

Unit – 3: Preparation of Benzylidene aniline.

Block - 1: Preparation of organic compounds - 2.

Unit – 4: Preparation of β -Naphthyl methyl ether.

Unit – 5: Preparation of p-bromoacetanilide

Unit – 6: Preparation of Nitrobenzene