

Semester-5

Chemistry – 6B: Green Chemistry, Organic chemistry, Environmental Chemistry (Elective)

Block – 1: Green Chemistry

Unit – 1: Introduction to Green Chemistry.

Unit – 2: Principles of Green Chemistry.

Unit – 3: Green Synthesis – Some Reactions and Applications of Green Chemistry.

Block – 2: Organic Chemistry-8.

Unit – 4: Introduction to Pericyclic reactions

Unit – 5: introduction to Asymmetric synthesis.

Unit – 6: Structure elucidation of organic compounds by Chemical methods.

Block – 3: Environmental Chemistry -1

Unit – 7: Atmosphere and its components

Unit – 8: Air Pollution

Unit – 9: Water Pollution

Block – 4: Environmental Chemistry -2

Unit – 10: Soil and Sound Pollution.

Unit – 11: Chemical toxicology

Unit – 12: The state of global environment

Practical: Chemistry – 6B: Green Chemistry, Organic chemistry, Environmental Chemistry.

Block – 1: Green synthesis.

Unit – 1: Microwave assisted synthesis - 1

Unit – 2: Microwave assisted synthesis - 2

Unit – 3: Sonic assisted synthesis

Block – 2: **Water and Soil analysis**

Unit – 4: Water analysis. (TDS, PH & Conductivity)

Unit – 5: Water analysis. (Hardness, Alkalinity)

Unit – 6: Soil analysis. (Water holding capacity, Soil PH, Density, total organic Matter accumulated)