Module Name (General)	Total Hours
Chemistry	25

Day	Sr.	Topic	Hrs
01	1.	Environmental Chemistry • Pollution and Pollutant • Causes of pollution	1
	2.	Analytic Aspects of Water • Sources of Water • Conservation of Water	1
	3.	Engineering Materials • Abrasive and Refectories Definition. classification properties and uses	1
	4.	Solid Waste Management • Introduction • Classification of Solid Waste	1
	5.	Green Chemistry & Technology • Introduction • Green chemistry in daily life	1
02	1.	Environmental Chemistry • Composition of Air • Environmental Pollution • Types of Pollution	1
	2.	Analytic Aspects of Water • Impurities found in water and their effects • WHO and BIS guidelines for potable water	1
	3.	Engineering Materials • Glass - Definition, classification, properties and uses	1
	4.	Solid Waste Management • Methods for solid waste management - open dumps. landfills	1
	5.	Green Chemistry & Technology • Principals of Green Chemistry	1
03	1.	Environmental Chemistry • Air Pollution - Types, sources, their effects and control	1
	2.	Analytic Aspects of Water • Chemistry involved in treatment of Water - Sedimentation Coagulation-Sterilization	1
	3.	Engineering Materials • Insulating materials - Definition. classification, properties and uses	1
	4.	Solid Waste Management • Methods of Solid Waste Management - anaerobic digestion , compositing	1
	5.	Green Chemistry & Technology • Principals of Green Chemistry	1
04	1.	Environmental Chemistry • Water Pollution - Types, sources, their effects and control	1
	2.	Analytic Aspects of Water • Basic Water Analysis - pH, TDS, Dissolved Oxygen	1
	3.	Engineering Materials • Cement - Definition, classification, properties and uses	1
	4.	Solid Waste Management • Methods of Solid Waste Management - incineration and encapsulation.	1
	5.	Green Chemistry & Technology • Application of Green Chemistry	1

Day	Sr.	Topic	Hrs
05	1.	Environmental Chemistry • Soil pollution	1
	2.	Analytic Aspects of Water • Basic Water Analysis Hardness. Alkalinity BOD and COD.	1
	3.	Engineering Materials • Plastic Materials - Definition, classification, properties and uses	1
	4.	Solid Waste Management • Management of Solid Waste - 4R	1
	5.	Green Chemistry & Technology • Advantages and Disadvantages	1
		Total	**25**