

Syllabus for Technical / Professional Knowledge – Lab Analyst	
Topics	Sub-Topics
Physical Chemistry	Chemical Energetics
	Chemical Equilibrium
	Ionic Equilibria
	Solutions
	Liquids
	Solids
	Phase Equilibrium
	Electrochemistry
	Kinetic Theory of Gases
	Chemicals Kinetics
	Nature and Structure of Polymers
	Glass transition temperature(Tg) and determination of Tg
	Polymer solution
	Properties of polymers
	Environment and its Segments.
Energy and Environment	
Inorganic Chemistry	Atomic Structure
	Chemical Bonding & Molecular Structure
	Ionic Bonding
	s-and p- Block Elements
	Industrial Gases and Inorganic Chemicals
	Covalent Bonding - VB Approach, MO Approach
Organic Chemistry	Fundamentals of Organic Chemistry
	Physical effects, Electronics Displacements
	Structure, Shape and reactivity of Organic molecules
	Alkyl and Aryl Halides
	Alcohol, Phenols and Ethers
	Amines & Diaz onium Salts