


Koyana Education Society's  
Balasaheb Desai College, Patan  
Department of Chemistry  
Teaching Plan February- 2024  
Semester II , IV & VI

Name of the Teacher- Prof.Dr.V.A.Kalantre

Dates	Unit	Sub unit	Teaching Method Aids
B.Sc.-I			
6/02/2024	Unit 5: Electrochemistry	5.5 Dipping type of conductivity cell, modifications in the technique used before measurement of conductance w.r.to use of alternating current, use of conductivity water, conductivity cell and temperature control.	Lecture
13/02/2024		5.6 Measurement of conductance by Wheatstone bridge.	Lecture using ICT
20/02/2024		5.7 Cell constant and its determination.	Lecture
27/02/2024		5.8 Numerical problems.	Lecture
B.Sc.-III			
01/02/2024	Unit 3. The Solid State	3.3 Weiss indices and Miller indices.	Lecture with Model
2/02/2024		3.4 Cubic lattice and types of cubic lattice, planes or faces of a simple cubic system, spacing of lattice planes.	Lecture with Model
08/02/2024		3.5 Diffraction of X-rays, Derivation of Bragg's equation.	Lecture
09/02/2024		3.6 Determination of crystal structure by Bragg's method.	Lecture
15/02/2024		3.7 Determination of crystal structure of NaCl and KCl on the basis of Bragg's equation.	Lecture using ICT
16/02/2024		3.8 Numerical problems.	
22/02/2024		3.8 Numerical problems.	
23/02/2024		Repetition	Lecture using ICT
M.Sc.-I			
07/02/2024	UNIT-IV: CHEMICAL KINETICS	Heterogeneous catalysis	Lecture
14/02/2024		Adsorption of gas on a surface and its kinetics	Lecture
21/02/2024		Catalyzed hydrogen-deuterium	Lecture

		exchange reaction	
28/02/2024		Numerical Problem	Lecture
<b>M.Sc.-II</b>			
01/02/2024		Properties of X-Ray	Seminar using ICT
08/02/2024		Instrumentation Of X-Ray	Seminar using ICT
15/02/2024		X-Ray Absorption	Seminar using ICT
22/02/2024		X-ray emission	Seminar using ICT
29/02/2024		Uses of X-Ray Spectroscopy	Seminar using ICT

  
**Head**  
**P.G Center**  
**Department of Chemistry**  
**B.D. College, Patan**