


Koyana Education Society's
Balasaheb Desai College, Patan
Department of Chemistry
Monthly Teaching Plan Year-2023-2024
August - 2023 Semester III & V

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

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Dates	Unit	Sub unit	Teaching Method Aids
B.Sc.-II			
01/08/2023	Unit 1: Electrolytic Conductivity	determination of degree of ionization of weak electrolyte	Lecture
07/08/2023		solubility and solubility products of sparingly soluble salts.	Lecture
08/08/2023		1.4 Conductometric titrations (only acid -base titrations with mixture of strong and weak acid).	Lecture with using ICT
14/08/2023		1.4 Conductometric titrations (only acid -base titrations with mixture of strong and weak acid).	Lecture with using ICT
21/08/2023		Advantages of conductometric titrations.	Lecture
22/08/2023		1.5 Numerical problems.	Lecture
28/08/2023		1.5 Numerical problems.	Lecture
B.Sc.-III			
03/08/2023	Unit 5. Electromotive force	5.1 Introduction	Inductive & Deductive
04/08/2023		5.2 Thermodynamics of electrode potentials, Nernst equation for electrode and cell potentials in terms of activities	Lecture using ICT
10/08/2023		5.3 E.M.F. series. 5.4 Types of electrodes: Description in terms of construction, representation, half cell reaction and emf equation for i) Metal – metal ion electrode.	Lecture using ICT
11/08/2023		ii) Amalgam electrode. iii) Metal – insoluble salt electrode.	Lecture using ICT

17/08/2023		iv) Gas – electrode. v) Oxidation – Reduction electrode.	Lecture
18/08/2023		5.5 Reversible and Irreversible cells. i. Chemical cells without transference.	Lecture
24/08/2023		ii. Concentration cells with and without transference. iii. Liquid – Liquid junction potential: Origin, elimination and determination.	Lecture
25/08/2023		iii. Liquid – Liquid junction potential: Origin, elimination and determination.	Lecture
31/08/2023		5.6 Equilibrium constant from cell emf, Determination of the thermodynamic parameters such as ΔG , ΔH and ΔS .	Lecture


 Head
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