

LESSON PLAN		
Discipline / All Branches	Semester-2nd	Name of the teaching faculty:- Sri Kishan Kumar Agrawal
Subject:- Engg. Chemistry lab	No. of days/per week- 02	Semester from date : 04.02.2025 to 17.05.2025 No. of weeks :- 14 (excluding puja vacation)
Week	Class day	Practical
1st	1st	Introduction of all equipments
	2nd	Safety protocols
2nd	1st	Introduction and preparation of standard oxalic acid or potassium permanganate(Demonstaration)
	2nd	Preparation of oxalic acid solution of different normalities
3rd	1st	Introduction to titration and demonstration
	2nd	Titration of sodium hydroxide with oxalic acid solution by using phenopthalain indicatior
4th	1st	Introduction to standardization of potassium permagnanate and demonstration
	2nd	Calculation of percentage of iron present in hemattite ore by potassium permagnanate solution
5th	1st	Introduction to iodometric titration
	2nd	Iodometric estimation of copper in the copper pyrite ore

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6th	1st	Introduction of conductance and conductivity meter
	2nd	Determination of conductivity of water sample
7th	1st	Introduction of Beer Lambert law
	2nd	Introduction of colorimeter and demonstration
8th	1st	Determination of iron content given in cement sample using colorimeter
	2nd	Introduction of different types of fuel and its calorific values
9th	1st	Introduction and demonstration of Bomb Calorimeter
	2nd	Calculation of calorific values of different types of solid or liquid fuel
10th	1st	Introduction and demonstration of Redwood Viscometer
	2nd	Determination of Viscosity of lubricating oil by using redwood viscometer
11th	1st	Introduction and demonstration of Able's apparatus

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11th	2nd	Determination of flash and fire point of lubricating oil by using Able's apparatus
12th	1st	Introduction of electrolysis
	2nd	Verification of 1st law of electrolysis
13th	1st	Introduction of Daniel cell
	2nd	Construction and measurement of emf of electrochemical cell
14th	1st	Introduction of 2nd law of electrolysis
	2nd	Study of dissimilar effect of metal combination