



SRI VENKATESWARA COLLEGE OF ENGINEERING

COURSE DELIVERY PLAN - LAB

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Department of Applied Chemistry		LP: CH22312
B.Tech. : Chemical Engineering		Rev. No: 00
PG Specialisation : NA	Regulation:2022	Date:
Sub. Code / Sub. Name : CH22312 / Technical Analysis Laboratory		30.07.2023

Session No*	List of Experiments
CYCLE-I	
1	Soap Analysis – Estimation of percentage of alkali content.
2	Soap Analysis – Determination of total fatty acid content.
3	Oil Analysis – Estimation of acid value.
4	Oil Analysis – Estimation of iodine value.
5	Estimation of available chlorine in bleaching powder.
CYCLE-II	
6	Estimation of barium as barium sulphate
7	Estimation of nickel as DMG
8.	Determination of purity of glycerol
9.	Proximate analysis of coal
CYCLE-III	
10	Cement Analysis – Estimation of silica content
11	Cement Analysis – Estimation of mixed oxides content
12	Cement Analysis – Estimation of calcium oxide content
Content beyond syllabus (if any):	
Estimation of Na / Cr by Flame Photometry / Atomic Absorption Spectroscopy	

* Session Duration: 150 minutes

Department of Applied Chemistry

Academic Year : 2023-2024

Semester: III

B.E/B.Tech/M.E/M.Tech : Chemical Engineering

Regulation : 2022

PG Specialisation : -

Sub. Code / Sub. Name : CH 22312 - Technical Analysis Laboratory

CO	Statements	RBT* Level
	On the successful completion of the course, students will be able to	
CO1	Estimate the alkali and total fatty acid content of soap.	U
CO2	Determine the acid value, iodine value and cloud & pour point of oil.	AP
CO3	Apply the principle of gravimetry to estimate the quantity of analyte.	AP
CO4	Determine the purity of glycerol.	U
CO5	Analyze the available chlorine and residual chlorine in water sample.	AP
CO6	Analyze sulphate and turbidity in water sample.	U

Mapping CO – PO – PSO *


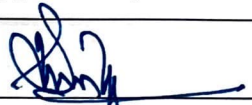
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO-1	PSO-2
CO1	1	1	1	1		3	3	2	2			1		
CO2	1	1	1			3	3	2	2					
CO3	1	1	1	1		3	3	2	2					
CO4	1	1	1	1										
CO5	1	1	1	1		3	3	2	2			1		
CO6	1	1	1	1		3	3	2	2					



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Sub. Code / Sub. Name: CH22312 / Technical Analysis Laboratory

	Prepared by	Approved by
Signature		
Name	Dr.M.Thirumalaikumar	Dr.S.Stanly
Designation	Assistant Professor	Professor
Date	30.07.2023	30.07.2023
Remarks* :		

* If the same lab plan is followed in the subsequent semester/year it should be mentioned and signed by the Faculty and the HOD