Engineering Chemistry Lab

Course	20BS1251	Year	I	Semester	II
Code					
Course	Basic Science	Branch	CSE	Course Type	Lab
Category					
Credits	1.5	L-T-P	0-0-3	Prerequisites	Nil
Continuous	15	Semester End	35	Total	50
Internal		Evaluation		Marks	
Evaluation					

Course Outcomes

Upon successful completion of the course, the student will be able to

- CO2 Apply the acquired knowledge to determine the quantity of metal ions in a given solution(L3)
- CO3 Estimate the amount of active chlorine in bleaching powder.(L4)
- CO4 Compare the viscosities and surface tension of different liquids(L4)
- CO5 Analyze different compounds and examine the preparation of different polymers (L4)
- CO6 Make an effective report based on experiments

Contribution of Course Outcomes towards achievement of Program Outcomes & Strength of correlations (3:High, 2: Medium, 1:Low)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3		1				3						1	
CO2	3		1				3						1	
CO3	3		1				3						1	
CO4	3		1				3						1	
CO5	3		1				3						1	
CO6	3		1				3			3			1	

Syllabus

Expt. No.	Syllabus	Mapped CO's
1	Determination of strength of an acid by pH metric method	CO1,CO6
2	Determination of conductance by conducto metric method	CO1,CO0
3	Determination of viscosity of a liquid	
4	Determination of surface tension of a liquid	CO4,CO6
5	Determination of chromium (VI) in potassium dichromate	CO2,CO6
6	Determination of Zinc by EDTA method	CO2,CO0
7	Estimation of active chlorine content in Bleaching powder	CO3,CO6
8	Preparation of Phenol-Formaldehyde resin	CO5,CO6
9	Preparation of Urea-Formaldehyde resin	005,000
10	Thin layer chromatography(paper chromatography)	

Learning Resources

Text Books

1. N.KBhasin and Sudha Rani Laboratory Manual on Engineering Chemistry 3/e, DhanpatRai Publishing Company (2007).

Reference Books

- 1. Mendham J, Denney RC, Barnes JD, Thosmas M and Sivasankar B Vogel's Quantitative Chemical Analysis 6/e, Pearson publishers (2000).
- e- Resources & other digital material
 - 1. https://nptel.ac.in/courses/105105178/
 - 2. http://202.53.81.118/course/view.php?id=82