# Prasad V. Potluri Siddhartha Institute of Technology, Kanuru, Vijayawada

PVP20

# **Department of Freshman Engineering**

## **Engineering Chemistry Lab**

Course Code			20BS	Year				I Semester			I				
Course Category		Basic Science		Branch		Е	CE	Course Type		e	Lab				
Credits			1.5		L-T-P		0-	0-3	Prer	Prerequisites		Nil			
Continuous			15		Semester End		End		35		Total		50		
Internal					Evaluation		ı			Marks					
<b>Evaluation</b>															
								Outcon							
	succ	essful	completi	on of th	ne cou	rse, the	stude	nt will	be able	to					
CO1	D	emonstrate the working of instruments such as pH meter and Conduct meter.(L3)													
CO2	_	apply the acquired knowledge to determine the quantity of metal ions in a given solution(L3)													
CO3	Е	stimate the amount of active chlorine in bleaching powder.(L4)													
CO4	С	Compare the viscosities and surface tension of different liquids(L4)													
CO5	A	analyze different compounds and examine the preparation of different polymers (L4)													
CO6	M	Make an effective report based on experiments													
	Contribution of Course Outcomes towards achievement of Program Outcomes &														
										edium, 1					
	PO:	l PO	2 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	<u> </u>		3			1		
								abus					3.6	1.001	
Expt.		Syllabus											Mapped CO's		
No. 1		Determination of storage deaf on with the state of the st													
2		Determination of strength of an acid by pH metric method											CO1,CO6		
3			Determination of conductance by conducto metric method  Determination of viscosity of a liquid												
4			Determination of viscosity of a riquid  Determination of surface tension of a liquid											CO4,CO6	
5			Determination of surface tension of a liquid  Determination of chromium (VI) in potassium dichromate											,	
6			rminatio			` /			dicino				CO2,CO6		
7			nation of						ing no	wder			CO3,CO6		
8			aration o						-010-	··			·		
9			aration o				-						CO5,C	U6	
10			layer ch						phy)						
	L				<u> </u>			Resou							
Text I	Book	S					- 8								
			n and S	Sudha I	Rani I	Laborat	tory N	Ianual	on En	gineerir	ng Chen	nistry 3	/e, Dhar	npatRai	
			g Compa				-			-	-	•		-	

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).

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# e- Resources & other digital material

- 1. https://nptel.ac.in/courses/105105178/
- 2. http://202.53.81.118/course/view.php?id=82