PVP20

Department of Freshman Engineering

Engineering Chemistry Lab

Course			20BS1251		Year	Year		Ι		Sem	Semester		II	
Code			Basic Science		Brai	Branch		IT		Соц	Course Type		Lab	
Category			Busic Science			Dianon				000				
Credits			1.5		L-T-	L-T-P		0-	0-3	Prer	Prerequisites		Nil	
Continuous			15		Sem	Semester Er			35	Tota	Total		50	
Internal					Evaluation		l I			Mar	Marks			
Evalu	ation					Course			200					
Upon successful completion of the course, the student will be able to														
CO1 Demonstrate the working of instruments such as pH meter and Conduct meter (L3)														
CO^2	CO2 Apply the acquired knowledge to determine the quantity of metal ions in a given solution(13)												$n(I_3)$	
CO_2	CO_3 Estimate the amount of active chlorine in bleaching powder (L4)													
CO4	CO4 Compare the viscosities and surface tension of different liquids(L4)													
CO5	CO5 Analyze different compounds and examine the preparation of different polymers (L4)													
CO6	Ma	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						<u> </u>	
CO_3	3		1				3							
C04	3		1				3						1 1	
CO5	3		1				3			3			1	
Syllabus														
Exp	t.						Syllabı	15					Mappeo	d CO's
No							•							
1	1 Determination of strength of an acid by pH metric method								CO1 CO6					
2		Deteri	ninatio	001,000										
3		Deteri	ninatio	$\frac{1}{c}$	cosity	of a lic	quid	• 1					COACC	26
4	Determination of surface tension of a liquid									04,000				
5	5 Determination of chromium (VI) in potassium dichromate									CO2,CO6				
7	O Determination of Zinc by EDTA method 7 Estimation of active chlorine content in Bleaching powder											CO3.CO6		
8		Prepa	ation o	f Pheno	ol-Forr	naldeh	yde res	sin	<u></u>					
9	9 Preparation of Urea-Formaldehyde resin										- CO5,CO6			
10	10 Thin layer chromatography(paper chromatography)													
Learning Resources														
Text Books														
1. N.KBhasin and Sudha Rani Laboratory Manual on Engineering Chemistry 3/e, DhanpatRai														
Publisning Company (2007).														
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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					

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