Department of Freshman Engineering

Chemistry of Materials Lab

Course		20BS1254		Year	Year		I		Sem	Semester		II			
Code															
Course		Basic Science		Brai	Branch		CE		Cou	Course Type		Lab			
Category															
Credits			1.5		L-T-P			0-0-3			Prerequisites		Nil		
Continuous			15		Semester End			35			Total		50		
Internal					Eval	Evaluation				Mar	Marks				
Evalu	ation	1													
								Outcon							
			completi								1 .	CI			
CO1	Apply the acquired knowledge to estimate the amount of calcium, Chromi sample (L3)									ium in a	a given				
CO2		nalyze the quality of ground water sample, and active chlorine in bleaching powder (L4)													
CO3	_	Calculate the strength of an acid in lead-acid storage cell.(L3)													
CO4		Compare the viscosities and surface tension of different liquids(L4)													
CO5		analyze the compounds and examine the Preparation of a polymer (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	PO			PO5		PO7		PO9	PO10		PO12	PSO1	PSO2	
CO1	3		2				3					1		1	
CO2	3		2									1		1	
CO3	3		2				3					1		1	
CO4	3		2				3					1	2	1	
CO5	3		2				3					1		1	
CO6	3		2				3			3		1		1	
								abus							
Exp		Syllabus											Mappe	d CO's	
No.															
1		Estimation of calcium in Portland cement											CO1,CO6		
2 De		Dete	Determination of chromium (VI) in potassium dichromate											CO1,CO6	
			etermination of viscosity of a liquid											CO4,CO6	
		Deter	termination of surface tension of a liquid											CO4,CO6	
5 De		Dete	Determination of sulphuric acid in lead-acid storage cell											CO3,CO6	
6 De			Determination of strength of an acid by pH metric method											CO2,CO6	
7		Determination of Hardness of a ground water sample											CO2,CO6		
8		Estin	Estimation of active chlorine content in Bleaching powder											CO2,CO6	
9	V 0 1 1 1 0 1 1 7								CO5,CO6						
10 Preparation of Phenol-formaldehyde resin											CO5,	,CO6			
						Lea	rning	Resou	rces						
Text I										a =:=					
1.									M and	d Sivas	ankar B	Vogel	's Quan	titative	
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Publishing Company(2007).

- e- Resources & other digital material
 - 1. https://nptel.ac.in/courses/105105178/
 - 2. http://202.53.81.118/course/view.php?id=82