Engineering Chemistry Lab

Course Code	19BS1252	Year	I	Semester	II
Course Category	Basic Sciences	Branch	IT	Course Type	Lab
Credits	1.5	L-T-P	0-0-3	Prerequisites	Nil
Continuous Internal Evaluation:	25	Semester End Evaluation:	50	Total Marks:	75

	Course Outcomes						
Upon s	Upon successful completion of the course, the student will be able to						
CO1	Explain the functioning of the instruments such as pH, Conductometric and						
	Potentiometric methods.						
CO2	Identify different ores (Cr & Cu) and their usage in different fields (industry, software devices, electronic goods).						
CO3	Experiment with the physical parameter of organic compounds.						
CO4	Compare the viscosities of oils.						
CO5	List the preparation of polymers and nano materials.						

	Contribution of Course Outcomes towards achievement of Program Outcomes &													
			Stren	gth of	corre	lation	s (H:F	Iigh, N	M : Me	dium,	L:Lov	v)		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	Н		M											
CO2	Н		M											
CO3	Н		M											
CO4	Н		M											
CO5	Н		M											

Syllabus					
Expt.	t. Contents				
No.		CO			
I	Determination of strength of an acid by pH metric method	CO1			
II	Determination of conductance by conductometric method	COI			
III	Determination of viscosity of a liquid	CO4			
IV	Determination of surface tension of a liquid	CO3			
V	Determination of chromium (VI) in potassium dichromate				
VI	Determination of Zinc by EDTA method	CO2			
VII	Estimation of active chlorine content in Bleaching powder	CO3			
VII	VII Preparation of Phenol-Formaldehyde resin				
IX	Preparation of Urea-Formaldehyde resin	CO5			
X	Thin layer chromatography	CO3			

Learning Resources
Text Books
N.KBhasin and Sudha Rani Laboratory Manual on Engineering Chemistry 3/e, DhanpatRai
Publishing Company (2007).
Reference Books

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

https://nptel.ac.in/courses/105105178/

http://202.53.81.118/course/view.php?id=82