Chemistry Lab								
Course Code	23BS1151	Year	I	Semester	I			
Course Category	Basic Sciences	Branch	ECE	CourseType	Lab			
Credits	1	L-T-P	0-0-2	Prerequisites	Nil			
Continuous Internal Evaluation:	30	emesterEnd Evaluation:	70	Total Marks:	100			

	Course Outcomes					
Upon s	Upon successful completion of the course, the student will be able to					
CO1	Demonstrate the working of potentiometer and conductometer instruments.L3					
CO2	Prepare advanced materials like polymers and Nano materials L3					
CO3	Calculate the strength of Pb-Acid battery L4					
CO4	Examine the ferrous iron content in a sample using dichrometry L4					
CO5	Calculate the wave length of a sample by using UV-Visible Spectroscopy and					
	colorimetry L4					
CO6	Make an effective report based on the 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	PSO 1	PSO 2
CO1	3			3								3		
CO2	3			3								3		
CO3	3			3								3		
CO4	3			3								3		
CO5	3			3								3		
CO6									3	3		3		

Syllabus						
Exp. No.	Contents	Mapped CO				
Experiments						
1	Conductometric titration of strong acid vs strong base	CO1,6				
2	Conductometric titration of weak acid vs. strong base	CO1,6				
3	Determination of cell constant and conductance of solutions	CO1,6				
4	Potentiometry - determination of redox potentials and emfs	CO1,6				
5	Determination of Strength of an acid in Pb-Acid battery	CO3,6				
6	Preparation of a Bakelite	CO2,6				
7	Verify Lambert-Beer's law	CO5,6				
8	Wavelength measurement of sample through UV-Visible Spectroscopy	CO5,6				

Preparation of nanomaterials by precipitation method CO2,6 10 Estimation of Ferrous Iron by Dichrometry CO4,6 **Learning Resources** J. Mendham, R.C. Denney, J.D. Barnes and B. Sivasankar, Vogel's Quantitative Chemical Analysis, 6th Ed., Pearson Publications