



DEPARTMENT OF BASIC SCIENCES AND HUMANITIES

LAB LESSON PLAN

Course Code	Course Name	Regulation	Academic year	Year / Semester	Branches	Contact Periods/Week	Sections
23BS2L01	Chemistry Lab	R-23	2024- 2025	I B.Tech / II Sem	Common to ECE, IT, AIML, AI&DS	3	

COURSE OUTCOMES

At the end of the course, student will be able to

CO1: Estimate the cell constant and conductance of solutions. (K3)

CO2: Calculate the redox potentials and emf. (K3)

CO3: Measure the strength of acid present in secondary batteries & Soft drink (K4)

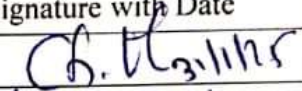


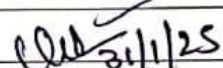
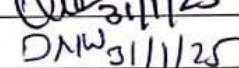
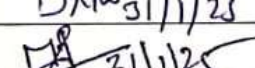
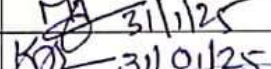
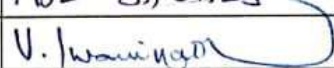
CO4: Prepare advanced polymer Bakelite materials and nano materials.(K3)

CO5: Estimate the Fe⁺² ions by Dichrometry. (K3)

WEEK	COURSE OUTCOMES	EXPT NO	DESCRIPTION	NO. OF SESSIONS
1, 2, 3	CO1 Estimate the cell constant and conductance of solutions. (K3)	1	Conductometric titration of strong acid by using strong base	1
		2	Conductometric titration of weak acid by using strong base	1
		3	Determination of cell constant and conductance of solutions	1
4, 5, 6	CO2 Calculate the redox potentials and emf. (K3)	4	Potentiometric titration of strong acid by using strong base.	1
		5	Potentiometric titration of weak acid by using strong base.	1
		6	Potentiometry- Determination of redox potentials and emfs	1

WEEK	COURSE OUTCOMES	EXPT NO	DESCRIPTION	NO. OF SESSIONS
7,8	CO3 Measure the strength of	7	Determination of an acid in Pb-acid battery	1

	acid present in secondary batteries & Soft drink (K4)	8	Determination of pH of soft drink	1
9,10	CO4. Prepare advanced polymer Bakelite materials and nano materials. (K3)	9	Preparation of a Bakelite	1
		10	Preparation of nano materials by precipitation method	1
11	CO5 Estimate the Fe ⁺² ions by Dichrometry. (K3)	11	Determination of Ferrous (Fe ⁺²) ions by Dichrometry	1
CUMULATIVE PROPOSED SESSIONS				11
LAB INTERNAL EXAM				
LAB END EXAMINATION				

		Faculty Name	Signature with Date
i.	Faculty I (for common Course)	Dr. Ch. Venkateswara Rao	 31/11/25
ii.	Faculty II (for common Course)	Mr. K. SrinivasaRao	 31/01/25
iii.	Faculty IV (for common Course)	Mr. M. V. Krishna Mohan	
iv.	Faculty V (for common Course)	Ms. G. Naga Soundarya	 31/11/25
v.	Faculty VI (for common Course)	Mr. D. NageswaraRao	 31/11/25
vi.	Faculty VIII (for common Course)	Mrs. M. Prasanthi	 31/11/25
vii.	Course Coordinator	Mr. K. SrinivasaRao	 31/01/25
viii.	Programme Coordinator	Dr. V. Swaminadham	


Principal