SWARNANDHRA

College of Engineering & Technology (Autonomous)
NARSAPUR - 534 280

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 Calculte 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	Ch. V 31/1/25
ii.	Faculty II (for common Course)	Mr. K. SrinivasaRao	K 31/01/25
iii.	Faculty IV (for common Course)	Mr. M. V. Krishna Mohan	
iv.	Faculty V(for common Course)	Ms. G. Naga Soundarya	31/1/25
v.	Faculty VI(for common Course)	Mr. D. NageswaraRao	DNW 31/1/25
vi.	Faculty VIII(for common Course)	Mrs. M. Prasanthi	31/1/25
vii.	Course Coordinator	Mr. K. SrinivasaRao	K 31/01/25
viii.	Programme Coordinator	Dr. V. Swaminadham	V. Swaminadham

Principal