

Semester 5 CL 501		
		Tentative Number of days in semester: 24
S No.	Experiment	No. of days
THEME	Separation techniques (Column chromatography)	
1	Silica gel column; separation of organic coloured compounds	1
2	Ion exchange chromatography	1
THEME	Gas chromatography (GC)	
3		1
4		1
THEME	Electrochemistry	
5	Estimation of Ascorbic acid by differential pulse polarography	1
6	Cyclic voltammetry of $K_3Fe(CN)_6 + K_4Fe(CN)_6$	1
7	Estimation of copper by Normal pulse polarography and differential pulse polarography	1
8	Cyclic voltammetry of redox system (NAME OF THE SYSTEM)	1
9	Electrochemical deposition of metals	1
10	Estimation of silver by differential pulse polarography	1
THEME	Heterocyclics	
11	Synthesis of thiophene carboxaldehyde (Vilsmeier-Haack reaction)	1
12	Synthesis of porphyrin and its purification	1
MID SEMESTER EXAMINATION		
13	Protection of NH group	1
14	Protection and deprotection of hydroxyl group in 8-hydroxy quinoline	1
15	Synthesis of indigo dye	1
THEME	Gravimetric and coordination chemistry	
16	Synthesis of Aluminium acetylacetonate.	1
17	Synthesis of AlQ_3	1
18 & 19	Synthesis of Ni and Co-DMG complexes.	2
20	Making an alloy (solder)	1
20	Thermal decomposition of calcium carbonate.	1
21	Studies of ZnI_2 formation.	1
22 & 23	Microscale reactions of positive ions with sodium hydroxides.	1
24	Making of a photographic print.	1
END SEMESTER EXAMINATION		24