

Semester 8	CL 801	
		Tentative Number of days in semester: 24
S No.	Experiment	No. of days
THEME	Theme: Determination of CMC and drug partitioning	
1	Determination of critical micellar concentration (cmc) of surfactant using pyrene fluorescence .	2
2	Determination of enthalpy ($\Delta_{mic}H$), entropy ($\Delta_{mic}S$) and Gibbs free energy change ($\Delta_{mic}G$) of micellization using isothermal titration calorimetry.	2
3	Determination of partitioning parameters of different drugs in HTAB micelles using isothermal titration calorimetry.	4
THEME	X-ray measurements	
5	Powder XRD	2
6	Powder XRF	2
THEME	Chromatography	
7	Separation of proteins on size exclusion chromatography using FPLC.	2
	MID SEMESTER EXAMINATION	
THEME	Advanced fluoremetric measurements	
13	Thermodynamics of DNA Duplex Formation	2
14	Study of microenvironment Trp and Tyr in native protein by Synchronous fluorescence	2
15	Study the change in dynamic of protein upon ligand binding by REES	1
THEME	Advanced NMR measurements	
17	Quantification of chemical mixtures using 1D NMR.	2
18	Analysis of small organic molecules using 1D and 2D-NMR spectra	2
THEME	Using visualization softwares	
19	Pymol; VMD; CCP4img	1
	END SEMESTER EXAMINATION	24