



RAGHU COLLEGE OF PHARMACY
(Approved by A.I.C.T.E. PCI New Delhi & Affiliated to Andhra University, Visakhapatnam)

Dakamarri, Bheemunipatnam (Mandalam), Visakhapatnam - 531 162

COURSE PLAN ACADEMIC YEAR 2022-2023

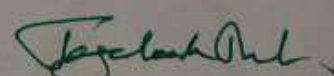
Subject Code	Name of the Subject	Class/ Semester	Name of the Faculty/ Designation	No. of Students	Total periods per Semester / Year
					71
BP403T	PHYSICAL PHARMACEUTICS II	II/IV II Semester	R.SAILAJA ASISSTANT PROFESSOR	55	

S.NO	Date	Topic	Mode of teaching
1.	26-6-2023	Introduction to physical pharmaceutics II	Chalk & talk
2.	27-6-2023	Classification of dispersed systems Size and shape of colloids	Chalk & talk
3.	28-6-2023	Type of Colloids	chalk & talk
4.	3-7-2023	Types of colloids	Chalk & talk
5.	4-7-2023	Methods to prepare lyophobic colloids	chalk & talk
6.	5-7-2023(T)	Hand outs	
7.8	6-7-2023(2)	Optical properties of colloids	Chalk & talk
9.	10-7-2023	Kinetic properties of colloids	Chalk & talk
10.	11-7-2023	Kinetic properties of colloids	Chalk & talk
11.	12-7-2023(T)	Hand outs	
12,13	13-7-2023(2)	Electrical properties of colloids Coacervation, Peptization	Chalk & talk.
14	17-7-2023	Protective action, Applications of colloids	Chalk & talk
15.	18-7-2023	Rheology Introduction Newtons law Non Newtonian systems	Chalk & talk
16.	19-7-2023(T)	Hand outs	
17,18	20-7-2023(2)	Class test-1, Thixotropy, determination	Chalk & talk
19	24-7-2023	Rheopexy, Anti thixotrophy	Chalk & talk
20.	25-7-2023	Determination of viscosity capillary viscometer Falling sphere viscometer	Chalk & talk
21.	26-7-2023(T)	Hand outs	

22,23.	27-7-2023(2)	Cup and bob viscometer, cone and plate viscometer, Brookfield viscometer	Power Point
24	31-7-2023	Deformation of solids, Heckel plots	Power Point
25.	1-8-2023	Coarse dispersions Sedimentation of flocculated particles, Interfacial properties Sedimentation parameters	Chalk &talk
26.	2-8-2023(T)	Hand outs	
27,28.	3-8-2023(2)	Degree of Deflocculation, ,Class test-2	Chalk &talk
29.	7-8-2023	Difference between flocculated and deflocculated suspensions Formulation of suspensions	Chalk &talk
30.	8-8-2023	Wetting of particles Controlled flocculation	Chalk &talk
31.	9-8-2023(T)	Hand outs	
32,33	10-8-2023(2)	Controlled flocculation, physical stability of suspensions Emulsions introduction Identification of Emulsions Theories of Emulsification	Chalk &talk
34	14-8-2023	Theories of Emulsification	Chalk &talk
35.	16-8-2023(T)	Hand outs	
36,37.	17-8-2023(2)	Stability of Emulsion	Chalk &talk
38.	28-8-2023	Micro and Multiple emulsion	Chalk &talk
39.	29-8-2023	Rheological properties of emulsion and preservation of emulsion	Chalk &talk
40.	30-8-2023(T)	Hand outs	
41,42.	31-8-2023(2)	HLB scale, class test 3	Chalk &talk
43	4-9-2023	Micromeritics-introduction	Chalk &talk
44.	5-9-2023	Size determination techniques optical microscopy, sieving	Chalk &talk
45.	6-9-2023(T)	Hand outs	
46.	11-9-2023	Sedimentation , Coulter counter technique	Chalk &talk
47,	12-9-2023	Particle shape, specific surface and surface area determination methods-adsorption	Chalk &talk
48	13-9-2023(T)	Hand outs	Chalk &talk
49,50,	14-9-2023(2)	Air permeability method and derived properties	Chalk &talk
51	18-9-2023	Different densities and density determination methods	Chalk &talk

52.	20-9-2023(T)	Hand outs	Chalk & talk
53.	21-9-2023(2)	Porosity , class test 4	Chalk & talk
54.	25-9-2023	Flow properties	Chalk & talk
55.	26-9-2023	Reaction kinetics: zero, pseudo-zero,	Chalk & talk
56.	27-9-2023(T)	Hand outs	
57.	3-10-2023	first & second order	Chalk & talk
58.	4-10-2023(T)	Hand outs	
59,60.	5-10-2023(2)	units of basic rate constants, determination of reaction order	Chalk & talk
61.	9-10-2023	Physical and chemical factors influencing the chemical degradation of pharmaceutical product: temperature,	Chalk & talk
62.	10-10-2023	solvent, ionic strength,	Chalk & talk
63.	11-10-2023(T)	Hand outs	
64,65.	12-10-2023(2)	dielectric constant, specific & general acid base catalysis, class test 5	Chalk & talk
66.	16-10-2023	Simple numerical problems	Chalk & talk
67.	17-10-2023	Stabilization of medicinal agents against common reactions like hydrolysis & oxidation	Chalk & talk
68.	18-10-2023	Accelerated stability testing in expiration dating of pharmaceutical dosage forms.	Chalk & talk
69.	19-10-2023	Photolytic degradation and its prevention	Chalk & talk
70.	30-10-2023	Previous question papers discussion	Chalk & talk
71.	31-10-2023	Revise	

R. Satija.
Lecture Incharge


Principal