



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- One copy to be submitted to the HOD one week before commencement of the Semester

Subject Code	Name of the Subject	Class/ Semester	Name of the Faculty/ Designation	No. of Students	Total periods per Semester / Year	
					Lectures	Tutorials
BP403T	PHYSICAL PHARMACEUTICS II	II/IV 2 nd Semester	A.Lakshmi usha	57	64	13

Lecture No.	Topic	E.T. Gadgets used, if any (LCD/OHP/ Charts/Models)	Date on which completed*
L1	Classification of dispersed systems	CHALK & TALK	26-6-2023
L2	Size and shape of colloids	CHALK & TALK	27-6-2023
L3	Type of Colloids	CHALK & TALK	28-6-2023
L4	Types of colloids	CHALK & TALK	29-6-2023
L5	Methods to prepare lyophobic colloids	CHALK & TALK	30-6-2023
L6	Methods to prepare lyophobic colloids	CHALK & TALK	3-7-2023
L7	Optical properties of colloids	CHALK & TALK	4-7-2023
L8	Kinetic properties of colloids	CHALK & TALK	5-7-2023
T1	Tutorial	Handouts	6-7-2023
L9	Kinetic properties of colloids	CHALK & TALK	7-7-2023
L10	Electrical properties of colloids	CHALK & TALK	10-7-2023
L11	Coacervation, Peptization	CHALK & TALK	11-7-2023
L12	Protective action, Applications of colloids	CHALK & TALK	12-7-2023
T2	Tutorial	Handouts	13-7-2023
L13	Rheology- Introduction, Newtons law	LCD	14-7-2023
L14	Non Newtonian systems	LCD	17-7-2023
L15	Non Newtonian systems	LCD	18-7-2023
L16	Thixotropy and applications	LCD	19-7-2023
T3	Tutorial	Handouts	20-7-2023
L17	Determination of viscosity and	CHALK & TALK	21-7-2023

	capillary viscometer.		
L18	Falling sphere viscometer	CHALK & TALK	24-7-2023
L19	Cup and bob viscometer	CHALK & TALK	25-7-2023
L20	Cone and plate viscometer	CHALK & TALK	26-7-2023
T4	Tutorial	Handouts	27-7-2023
L21	Deformation of solids	CHALK & TALK	28-7-2023
L22	Deformation of solids	CHALK & TALK	31-7-2023
L23	Sedimentation of flocculated particles, sedimentation parameters	CHALK & TALK	1-8-2023
L24	Degree of deflocculation, Difference between flocculated and deflocculated suspensions	CHALK & TALK	2-8-2023
T5	Tutorial	Handouts	3-8-2023
L25	Formulation of suspensions, wetting of particles	CHALK & TALK	4-8-2023
L26	Controlled flocculation	CHALK & TALK	7-8-2023
L27	Emulsions introduction	CHALK & TALK	8-8-2023
L28	Identification of Emulsions	CHALK & TALK	9-8-2023
T6	Tutorial	Handouts	10-8-2023
L29	Theories of Emulsification	CHALK & TALK	11-8-2023
L30	Theories of Emulsification	CHALK & TALK	14-8-2023
L31	Stability of Emulsion	CHALK & TALK	16-8-2023
T7	Tutorial	Handouts	17-8-2023
L32	Stability of Emulsion	CHALK & TALK	18-8-2023
L33	Micro and Multiple emulsion	CHALK & TALK	28-8-2023
L34	Rheological properties of emulsion and preservation of emulsion	CHALK & TALK	29-8-2023
L35	HLB scale	CHALK & TALK	30-8-2023
T8	Tutorial	Handouts	31-8-2023
L36	HLB scale	CHALK & TALK	1-9-2023
L37	Micromeritics-introduction	LCD	4-9-2023
L38	Size determination techniques optical microscopy, sieving	LCD	6-9-2023
L39	Sedimentation , Coulter counter technique	LCD	8-9-2023
L40	Particle shape, specific surface and surface area determination methods-adsorption	LCD	11-9-2023
L41	Air permeability method and derived properties	LCD	12-9-2023
L42	Different densities and density determination methods	LCD	13-9-2023
T9	Tutorial	Handouts	14-9-2023
L43	Different densities and density determination methods	LCD	15-9-2023

L44	Porosity	LCD	18-9-2023
L45	Flow properties	LCD	20-9-2023
T10	Tutorial	Handouts	21-9-2023
L46	Flow properties	CHALK & TALK	22-9-2023
L47	Zero order	CHALK & TALK	25-9-2023
L48	Reaction kinetics	CHALK & TALK	26-9-2023
L49	Reaction kinetics	CHALK & TALK	27-9-2023
L50	Determination of rate and order of reaction	CHALK & TALK	29-9-2023
L51	Factors influencing chemical degradation of pharmaceutical products	CHALK & TALK	3-10-2023
L52	Factors influencing chemical degradation of pharmaceutical product	CHALK & TALK	4-10-2023
T11	Tutorial	Handouts	5-10-2023
L53	Stabilization of medicinal agents	CHALK & TALK	6-10-2023
L54	Accelerated stability testing	CHALK & TALK	9-10-2023
L55	Photolytic degradation	CHALK & TALK	10-10-2023
L56	Numerical problems	CHALK & TALK	11-10-2023
T12	Tutorial	Handouts	12-10-2023
L57	Numerical problems	CHALK & TALK	13-10-2023
L58	Revision		16-10-2023
L59	Revision		17-10-2023
L60.	Revision		18-10-2023
T13	Tutorial		19-10-2023
L61.	Revision		20-10-2023
L62.	Revision		23-10-2023
L63.	Revision		30-10-2023
L64.	Revision		31-10-2023

Lecture Incharge: *A.h. Usha*

Principal: *Tajabhat Rm*



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BP408P	PHYSICAL PHARMACEUTICS II PRACTICAL	II/IV 2 nd Semester	A.Lakshmi usha

COURSE PLAN- One copy to be submitted to the HOD one week before commencement of the Semester

S.No	Name of the Experiment	Batch I	Batch II	Remarks
1.	Determination of Viscosity of a liquid using Ostwald's Viscometer.	28-6-2023	6-7-2023	
2.	Determination of Bulk density, True density and porosity.	5-7-2023	13-7-2023	
3.	Determination of Angle of repose and influence of lubricant on angle of repose.	12-7-2023	20-7-2023	
4.	Determination of sedimentation volume with effect of different suspending agents.	19-7-2023	27-7-2023	
5.	Determination of sedimentation volume with effect of different concentrations of a single suspending agent.	26-7-2023	3-8-2023	
6.	Determination of particle size, particle size distribution using sieving method.	2-8-2023	10-8-2023	
7.	Determination of particle size, particle size distribution using Microscopic method.	9-8-2023	17-8-2023	
8.	Determination of reaction rate constant first order.	16-8-2023	14-9-2023	
9.	Determination of reaction rate constant first order.	30-8-2023	21-9-2023	

A.L. Usha
Lecture Incharge:

Principal: