



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
BP403T	PHYSICAL PHARMACEUTICS II	II/IV II Semester SEC B	Y.RENUKA ASISSTANT PROFESSOR	55	71

S.NO	Date	Topic	Mode of teaching
L1	02-1-2024	Introduction of surface and interfacial phenomenon	Chalk & talk
L2	08-1-2024	Surface tension and interfacial tension	Chalk & talk
L3	09-1-2024	Surface free energy and spreading coefficient	chalk & talk
L4	22-1-2024	Measurement of surface tension	Chalk & talk
L5	23-1-2024	Measurement of surface tension	chalk & talk
L6	29-1-2024	Measurement of interfacial tension	Chalk & talk
L7	30-1-2024	Adsorption at liquid interfaces	Chalk & talk
L8	05-2-2024	Surface active agent (surfactants)	Chalk & talk
L9	06-2-2024	Types of surfactants	Chalk & talk
L10	12-2-2024	Application of surfactants	
L11	13-2-2024	HLB system	Chalk & talk
L12	19-2-2024	HLB scale	Chalk & talk
L13	20-2-2024	Solubilization	Chalk & talk



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Subject Code	Name of the Subject	Class/ Semester	Name of the Faculty/ Designation	No. of Students	Total periods per Semester / Year
BP403T	PHYSICAL PHARMACEUTICS II	II/IV II Semester SEC-A	Y.RENUKA ASISSTANT PROFESSOR	55	71

S.NO	Date	Topic	Mode of teaching
L1	04-1-2024	Introduction of surface and interfacial phenomenon	Chalk & talk
L2	06-1-2024	Surface tension and interfacial tension	Chalk & talk
L3	11-1-2024	Surface free energy and spreading coefficient	chalk & talk
L4	20-1-2024	Measurement of surface tension	Chalk & talk
L5	25-1-2024	Tutorial	Handouts
L6	01-2-2024	Measurement of interfacial tension	Chalk & talk
L7	03-2-2024	Adsorption at liquid interfaces	Chalk & talk
L8	08-2-2024	Surface active agent (surfactants)	Chalk & talk
L9	15-2-2024	Types of surfactants	Chalk & talk
L10	17-2-2024	Application of surfactants	Chalk & talk
L11	22-2-2024	Tutorial	Handouts
L12	24-2-2024	HLB System, HLB Scale	Chalk & talk
L13	02-3-2024	Solubilization, Detergency	Chalk & talk

L14	07-3-2024	Tutorial	Handouts
L15	14-3-2024	Introduction complexation and protein binding	Chalk &talk
L16	16-3-2024	Classification of complexation	Chalk &talk
L17	16-3-2024	Application of complexation	Chalk &talk
L18	21-3-2024	Metal ion complexes / coordinate compound, Inorganic complexes	Chalk &talk
L19	23-3-2024	UNIT TEST 1	
L20	28-3-2024	SESSIONAL 1	
L21	30-3-2024	Indusion complexes /occlusion compound	Chalk &talk
L22	04- 4-2024	Tutorial	Handouts
L23	06-4-2024	Method of analysis of complexation	Chalk &talk
L24	18-4 -2024	Protein binding, Mechanism of protein binding	Chalk &talk
L25	20- 4- 2024	Tutorial	Handouts
L26	25- 4-2024	Complexation and drug action ,Crystalline structure of complexation	
L27	27-4-2024	Thermodynamic treatment of stability constant	Chalk &talk
L28	02-5- 2024	Sorensens pH scale	Chalk &talk
L29	04-5-2024	pH Determination [electrometric and calorimetric]	Chalk &talk
L30	16-5-2024	Revision	Handouts
L31	18-5-2024	Revision	Hand outs
L32	01-5-2024	UNIT TEST 2	
L33	06-5-2024	SESSIONAL2	



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II/IV B.PHARMACY SEMESTER -I LAB PLAN SEC-B
ACADEMIC YEAR 2023-2024

s.no	Name of the experiment	Batch I	Batch II
1.	Determination the solubility of drug at room temperature	03-1-2024	05-1-2024
2.	Determination of surface tension of given liquids by drop count and drop weight method	10-1-2024	12-1-2024
3.	Determination of % composition of NaCl in a solution using phenol-water system by CST method	24-1-2024	19-1-2024
4.	Record Writing	31-1-2024	09-2-2024
5.	Determination of critical micellar concentration of surfactants	14-2-2024	16-2-2024
6.	Determination of Freundlich and Langmuir constants using activated char coal	21-2-2024	23-2-2024
7.	Record Writing	28-2-2024	01-3-2024
8.	Determination of Partition co- efficient of Iodine in CCl ₄ and water	06-3-2024	15-3-2024
9.	Determination of stability constant and donor acceptor ratio of PABA-Caffeine complex by solubility method	20-3-2024	22-3-2024
10.	Lab internal I	27-3-2024	05-4-2024
11.	Determination of pK _a value by Half Neutralization/ Henderson Hasselbalch equation.	03-4-2024	12-3-2024
12.	Determination of Partition co- efficient of benzoic acid in benzene and water	10-4-2024	19-4-2024
13.	Determination of stability constant and donor acceptor ratio of Cupric-Glycine complex by pH titration method	24-4-2024	26-4-2024
14.	Determination of HLB value of a surfacant	01-5-2024	03-5-2024
15.	Record Writing	08-5-2024	10-5-2024
16.	Lab Internal II	15-6-2024	17-5-2024
17.	Record writing		

SIGNATURE OF THE INCHARGE


PRINCIPAL