RAGU COLLEGE OF PHARMACY

Dakamarri, Bheemunipatnam Mandal, Visakhapatnam

Class: II/IV B pharm I sem Commencement Classes:

Section: A & B Course Instruction:

Faculty Name M. Yamini Ist Internal Date: Theory: 22/7/24 Practical: 24/7/24

Subject & Code Physical pharmaceutics II (T&P) BP403T, BP407P IInd Internal Date: Theory: 3/10/24 Practical: 11/10/24

Academic Year: 2023-2024

FACULTY WORKLOAD FOR THE ACADEMIC YEAR -2023 - 2024

Theory Workload

Day	9:00-10:00	10:00-10:50	10:50-11:40	11:40-12:30	12:30-1:00	1:00-1:50	1:50-2:40	2:40-3:30	3:30-4:20
Mon								Sec A	
Tue			Sec A		LUNCH				
Wed			Sec A						
Thur							Sec A		
Fri									
Sat	Sec A								
WORK LOAD :									

Practical Workload

Day	9:00-10:00	10:00-10:50	10:50-11:40	11:40-12:30	12:30-1:00	1:00-1:50	1:50-2:40	2:40-3:30	3:30-4:20
Mon	←	PP-II / lab Batch-II		Sec A →					
Tue					LUNCH				
Wed						← PP-II	lab Batch-I	Sec B →	
Thur									
Fri						← PP-II	Batch II	Sec B →	
Sat									
WORK LOAD :						← PP-II	Lab Batch-I	Sec A →	

M. Yamini

Subject Teacher Signature

Principal

Holidays:

Faculty Leaves list:

Work load Dates:

Theory Dates

Month	Mon	Tue	Wed	Thurs	Friday	Saturday
May	6/5/24	7/5/24	8/5/24	9/5/24		
June	3/6/24	4/6/24	5/6/24	6/6/24		1/6/24
	10/6/24	11/6/24	12/6/24	13/6/24		18/6/24
	24/6/24	18/6/24	19/6/24	20/6/24		22/6/24
		25/6/24	26/6/24	27/6/24		29/6/24
July	1/7/24	2/7/24	3/7/24	4/7/24		6/7/24
	8/7/24	9/7/24	10/7/24	11/7/24		20/7/24
	15/7/24	16/7/24	24/7/24	18/7/24		27/7/24
	22/7/24	23/7/24	31/7/24	25/7/24		
	29/7/24	30/7/24				
August	5/8/24	6/8/24	7/8/24	1/8/24		3/8/24
	12/8/24	13/8/24	14/8/24	8/8/24		17/8/24
	19/8/24	20/8/24	21/8/24	22/8/24		24/8/24
		27/8/24	28/8/24	29/8/24		31/8/24
September	2/9/24	3/9/24	4/9/24	5/9/24		14/9/24
	9/9/24	10/9/24	11/9/24	12/9/24		21/9/24
	23/9/24	17/9/24	18/9/24	19/9/24		28/9/24
	30/9/24	24/9/24	25/9/24	26/9/24		
October	11/10/24					

Practical Dates

Month	Mon (B-II (sec A))	Tue	Wed (BI) (SCB)	Thurs	Friday (B-II) sec B	Saturday (B-I) sec A
May	6/5/24		7/5/24		10/5/24	~~4/6~~
June	3/6/24		5/6/24		7/6/24	1/6/24
	10/6/24		12/6/24		14/6/24	15/6/24
	24/6/24		19/6/24		21/6/24	22/6/24
			26/6/24		28/6/24	29/6/24
July	1/7/24		3/7/24		5/7/24	6/7/24
	8/7/24		10/7/24		12/7/24	20/7/24
	15/7/24		24/7/24		19/7/24	27/7/24
	22/7/24		31/7/24		26/7/24	
	24/7/24				2/8/24	
August	5/8/24		7/8/24		9/8/24	3/8/24
	12/8/24		14/8/24		16/8/24	17/8/24
	19/8/24		21/8/24		23/8/24	24/8/24
			28/8/24		30/8/24	31/8/24
September	2/9/24		4/9/24		6/9/24	14/9/24
	9/9/24		11/9/24		13/9/24	21/9/24
	28/9/24		18/9/24		20/9/24	28/9/24
	30/9/24		25/9/24		27/9/24	
October	11/10/24					

RAGHU COLLEGE OF PHARMACY

Dakamarri, Bheemunipatnam Mandal, Visakhapatnam – 531162

(Affiliated to ANDHRA UNIVERSITY, VISAKHAPATNAM)

COURSE PLAN Sec A

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/II	M.Yamini/ Asst professor	54	62	15

Lecture No.	Topic	E.T. Gadgets used, if any (LCD/OHP/ Charts/Models)	Date on which to be completed*
L1	Introduction	CHALK & TALK	06-5-24
L2	Classification of dispersion systems, characteristics size shapes of colloidal particles	CHALK & TALK	07-5-24
L3	Classification of colloids & general properties	CHALK & TALK	08-5-24
T1	**TUTORIAL**	REVISION	09 -5-24
L4	Optical properties	CHALK & TALK	11-5-24
L5	Kinetic properties	CHALK & TALK	18-6-24
L6	Electrical properties	CHALK & TALK	19 -6-24
L7	Effect of electrolytes, coacervation, peptization and protective action	CHALK & TALK	20-6-24
T2	**TUTORIAL**	REVISION	22-6-24
L8	Stability of colloids	CHALK & TALK	24 -6-24

L9	Newtonian systems	CHALK & TALK	25 -6-24
L10	Concept of viscosity	CHALK & TALK	26-6-24
T3	**TUTORIAL**	REVISION	27-6-24
L11	Law of flow , kinematic viscosity , effect of temperature	CHALK & TALK	29-6-24
L12	Non Newtonian systems	CHALK & TALK	01-7-24
L13	Pseudo plastic flow	CHALK & TALK	02-7-24
L14	Dilatant flow , plastic flow	REVISION	03 -07-24
T4	**TUTORIALS**	REVISION	04-07-24
L15	Thixotropy, thixotropy in formulation	CHALK & TALK	06 -07-24
L16	Determination of viscosity, capillary	CHALK & TALK	08-07-24
L17	Falling sphere , rotational viscometers	CHALK & TALK	09-07-24
L18	Deformation of solids, plastic & elastic deformation, heckel equation	CHALK & TALK	10 -07-24
L19	Assignment 1	CHALK & TALK	11 -07-24
L20	Stress , strain elastic modulus	CHALK & TALK	13 -07-24
L21	Coarse dispersions suspension	CHALK & TALK	15-07-24
L22	Interfacial properties of suspended particles	CHALK & TALK	16-07-24
L23	Settling in suspensions	CHALK & TALK	17-07-24
T5	**TUTORIAL**	REVISION	18 -07-24
L24	Formulation of flocculated & de flocculated suspensions	CHALK & TALK	20-07-24
L25	1MID EXAMINATION	CHALK & TALK	22-07-24
L26	Emulsion & theories of emulsification	CHALK & TALK	27-07-24
T6	**TUTIORIAL**	REVISION	29-07-24
L27	Micro emulsion and multiple emulsion	CHALK & TALK	30-07-24
L28	Stability & preservation of emulsions	CHALK & TALK	31-07-24

L29	Rheological properties of emulsion & formulation by HLB method	CHALK & TALK	01-08-24
T7	**TUTORIAL**	REVISION	03-08-24
L30	Micromeretics particle size & distribution	CHALK & TALK	05-08-24
L31	Mean particle size	CHALK & TALK	06-08-24
L32	Number & weight distribution	CHALK & TALK	10-08-24
T8	**TUTORIAL**	REVISION	12-08-24
L34	Particle number	CHALK & TALK	13-08-24
T9	**TUTORIAL**	REVISION	14-08-24
L35	Methods for determining particle size by different methods	CHALK & TALK	17-08-24
L36	Counting & seperation method	CHALK & TALK	19-08-24
L37	Particle shape, specific surface	CHALK & TALK	20-08-24
L38	Methods for determining surface area	REVISION	21-08-24
L39	Permeability, adsorption	CHALK & TALK	22-08-24
L40	Derived properties of powders	CHALK & TALK	24-08-24
L41	Porosity, packaging arrangement	CHALK & TALK	27-08-24
L42	Densities , bulkiness , flow properties	CHALK & TALK	28-08-24
T10	**TUTORIAL**	REVISION	29-08-24
L43	Drug stability , reaction Kinetics- zero order	CHALK & TALK	31-08-24
L44	Pseudo zero order	CHALK & TALK	02-09-24
L45	First order reaction	CHALK & TALK	03-09-24
T11	**TUTORIAL**	REVISION	04-09-24
L46	Units of basic rate constants, determination of reaction order	CHALK & TALK	05-09-24
L47	Physical & chemical factors - temperature solvent, ionic strength	CHALK & TALK	09-09-24

T12	**TUTORIAL**	REVISION	10-09-24
L48	Dielectric constant, specific acid base catalysis	CHALK & TALK	11-09-24
L49	Stabilization of medicinal agents against hydrolysis & oxidation	CHALK & TALK	12-09-24
L50	Accelerated stability testing	CHALK & TALK	14-09-24
L51	Assignment 2	CHALK & TALK	17-09-24
L52	Simple numerical problems	CHALK & TALK	18-09-24
T13	**TUTORIAL**	REVISION	19-09-24
L53	Accelerated stability testing in expiration dating of pharmaceutical dosage form	CHALK & TALK	21-09-24
L54	Factors effecting rates of reaction	CHALK & TALK	23-09-24
L55	Accelerated stability testing procedure	CHALK & TALK	24-09-24
L56	Photolytic degradation	CHALK & TALK	25-09-24
L57	Photolytic degradation prevention	CHALK & TALK	26-09-24
T14	**TUTORIAL**	REVISION	28-09-24
L58	Assignment 3	CHALK & TALK	30-09-24
T15	**TUTORIAL**	REVISION	01-10-24
L59	II MID EXAMINATION	CHALK & TALK	03-10-24
L60	Revision	CHALK & TALK	08-10-24
L61	Revision	CHALK & TALK	09-10-24
L62	Revision	CHALK & TALK	10-10-24

M. Yamini

Signature of the Faculty Member

Date: 9/5/24

Signature of the Head

Date

COURSE PLAN PHYSICAL PHARMACEUTICSII-PRACTICAL(BATCH I)

Section A

s.no.	Name of the experiment	Date
1	Determination of particle size, particle size distribution using sieving method	1-6-24
2	Determination of particle size, particle size distribution using Microscopic method	15-6-24
3	Determination of bulk density,true density and porosity	22-6-24
4	Determine the angle of repose and influence of lubricant on angle of repose	29-6-24
5	Determination of viscosity of liquid using Ostwald's viscometer	6-7-24
6	Determination sedimentation volume with effect of different suspending agent	20-7-24
7	Determination sedimentation volume with effect of different concentration of single suspending Agent	27-7-24
8	Determination of viscosity of semisolid by using Brookfield viscometer	3-8-24
9	Determination of reaction rate constant first order	17-8-24
10	Determination of reaction rate constant second order	24-8-24
11	Accelerated stability studies	31-8-24
12	Revision	7-9-24
13	Revision	21-9-24
14	Revision	28-9-24

M.Yamini 9/5/24

INTERNALSIGNATURE

PRINCIPAL

OURSE PLAN PHYSICAL PHARMACEUTICSII-PRACTICAL(BATCH II)

Section A

s.no.	Name of the experiment	Date
1	Determination of particle size, particle size distribution using sieving method	6-5-24
2	Determination of particle size, particle size distribution using Microscopic method	3-6-24
3	Determination of bulk density,true densityand porosity	10-6-24
4	Determine the angle of repose and influence of lubricant on angle of repose	24-6-24
5	Determination of viscosity of liquid using Ostwald's viscometer	1-7-24
6	Determination sedimentation volume with effect of different suspending agent	8-7-24
7	Determination sedimentation volume with effect of different concentration of single suspending agent	15-7-24
8	Determination of viscosity of semi solid by using Brookfield viscometer	22-7-24
9	Determination of reaction rate constant first order	29-7-24
10	Determination of reaction rate constant second order	5-8-24
11	Accelerated stability studies	12-8-24
12	Revision	26-8-24
13	Revision	2-9-24
14	Revision	9-9-24
15	Revision	23-9-24
16	Revision	30-9-24

M. Yamini 9/5/24
INTERNALSIGNATURE

PRINCIPAL