4TH SEM P.P-II 1ST SESSIONAL 2025

No. of Hours	TOPIC	Days	Expected date	Conducted date	Remark
1	Introductory class	MON	16-06-25		
2	**Unit-III: Coarse dispersion:** Suspension, interfacial properties of suspended particles	TUE	17-06-25		
3	suspended particles	MON	23-06-25		
4	settling in suspensions	TUE	24-06-25		
5	formulation of suspensions	WED	25-06-25		
6	Emulsions and theories of emulsification,	MON	30-06-25		
7	microemulsion and multiple emulsions; Physical stability of emulsions,	WED	02-07-25		
8	preservation of emulsions, rheological properties of emulsions	MON	07-07-25		
9	phase equilibria and emulsion formulation.	TUE	08-07-25		
10	**Micromeretics:** Particle size distribution	WED	09-07-25		
11	mean particle size, number and weight distribution, particle number	MON	14-07-25		
12	methods for determining particle size by different methods,	TUE	15-07-25		
13	counting and separation method, particle shape, specific surface,	WED	16-07-25		
14	methods for determining surface area, permeability adsorption,	MON	21-07-25		
15	derived properties of powders	TUE	22-07-25		
16	porosity, packing arrangement, densities, bulkiness & flow properties.	WED	23-07-25		
17	TEST	MON	28-07-25		
18	**Unit-I: Drug stability:** Reaction kinetics: zero, pseudo-zero first & second order	TUE	29-07-25		
19	units of basic rate constants, determination of reaction order, determination of reaction order	WED	30-07-25		
20	Physical & chemical factors influencing the	MON	04-08-25		

	chemical degradation of pharmaceutical product: temperature,				
21	solvent, ionic strength, dielectric constant, specific & general acid base catalysis	TUE	05-08-25		
22	Physical & chemical factors influencing the chemical degradation of pharmaceutical product	WED	06-08-25		
23	Physical & chemical factors influencing the chemical degradation of pharmaceutical product	MON	18-08-25		
24	Stabilization of medicinal agents against common reactions like hydrolysis & oxidation.	TUE	19-08-25		

4TH SEM P.P-II 2nd SESSIONAL 2025

No. of Hours	TOPIC	Days	Expected date	Conducted date	Remark
25	Accelerated stability testing in expiration dating of pharmaceutical dosage forms	WED	20-08-25		
26	Photolytic degradation and its prevention	MON	25-08-25		
27	**Unit-V: Colloidal dispersions**: Classification of dispersed systems	TUE	26-08-25		
28	general characteristics, size & shapes of colloidal particles	MON	01-09-25		
29	classification of colloids	TUE	02-09-25		
30	comparative account of their general properties	WED	03-09-25		
31	Optical properties	MON	08-09-25		
32	kinetic properties	TUE	09-09-25		
33	electrical properties,	WED	10-09-25		
34	Effect of electrolytes	MON	15-09-25		
35	coacervation, peptization & protectective action	TUE	16-09-25		
36	TEST	WED	17-09-25		
37	**Unit-II: Rheology:** Newtonian systems, law of flow,	MON	22-09-25		
38	kinematic viscosity, effect of temperature	TUE	23-09-25		
39	non-Newtonian systems, pseudoplastic, dilatants, plastic	WED	24-09-25		
40	thixotropy, thixotropy in formulation	MON	29-09-25		
41	determination of viscosity, capillary, falling sphere	TUE	30-09-25		
42	determination of viscosity rotational viscometer	WED	01-10-25		
43	Deformation of solids: Plastic and elastic deformation	MON	06-10-25		
44	Heckel equation, stress, strain, elastic modulus	WED	08-10-25		
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