6th SEM Biopharmaceutics 1ST SESSIONAL 2025

No. of Hours	TOPIC	Days	Expected date	Conducted date	Remark
1	Introductory class	MON	16-06-25		
2	Introduction of syllabus	TUE	17-06-25		
3	Introduction to Biopharmaceutics	WED	18-06-25		
4	Absorption; Mechanisms of Absorption	MON	23-06-25		
5	factors influencing drug absorption	TUE	24-06-25		
6	from Non per oral extra-vascular routes,	WED	25-06-25		
7	Distribution Tissue permeability of drugs,	MON	30-06-25		
8	binding of drugs, apparent, volume of drug distribution,	TUE	01-07-25		
9	plasma and tissue protein binding of drugs,	WED	02-07-25		
10	Factors affecting protein-drug binding.	MON	07-07-25		
11	Kinetics of protein binding,	TUE	08-07-25		
12	Clinical significance of protein binding of drugs	WED	09-07-25		
13	Elimination: Drug metabolism	MON	14-07-25		
14	basic understanding metabolic pathways	TUE	15-07-25		
15	renal excretion of drugs,	WED	16-07-25		
16	factors affecting renal excretion of drugs,	MON	21-07-25		
17	renal clearance,	TUE	22-07-25		
18	Non renal routes of drug excretion of drugs	WED	23-07-25		
19	Bioavailability and Bioequivalence: Definition	MON	28-07-25		
20	Objectives of bioavailability,	TUE	29-07-25		
21	absolute and relative bioavailability, measurement of bioavailability,	WED	30-07-25		
22	in-vitro drug dissolution models,	MON	04-08-25		
23	introduction to Pharmacokinetics,	TUE	05-08-25		
24	Compartment models, Non compartment models,	WED	06-08-25		
25	physiological models,	MON	18-08-25		

6th SEM Biopharmaceutics 2nd SESSIONAL 2025

No. of Hours	TOPIC	Days	Expected date	Conducted date	Remark
26	One compartment open model. (a). Intravenous Injection (Bolus)	TUE	19-08-25		
27	(b). Intravenous infusion	WED	20-08-25		
28	(c) Extra vascular administrations.	MON	25-08-25		
29	Pharmacokinetics parameters - KE ,t1/2,	TUE	26-08-25		
30	Vd,AUC,Ka, Clt and CLR-	MON	01-09-25		
31	definitions methods of eliminations,	TUE	02-09-25		
32	understanding of their significance and application	WED	03-09-25		
33	Introduction to Multi compartment models:	MON	08-09-25		
34	Two compartment open model.	TUE	09-09-25		
35	Definition and Explanation	WED	10-09-25		
36	IV bolus Kinetics of multiple dosing,	MON	15-09-25		
37	steady state drug levels,	TUE	16-09-25		
38	calculation of loading and mainetnance doses	WED	17-09-25		
39	significance in clinical settings of doses	MON	22-09-25		
40	Applications in Clinical Trials	TUE	23-09-25		
41	Introduction to Nonlinear Pharmacokinetics	WED	24-09-25		
42	Factors causing Non-linearity.	MON	29-09-25		
43	Michaelis- menton equation	TUE	30-09-25		
44	method of estimating parameters,	MON	06-10-25		
45	Factors effecting calculation of non linearity	WED	08-10-25		
46	Difference between linear and Non linear Pharmacokinetics	MON			
47	Explanation with example of drugs				