



Nirmala College of Pharmacy, Muvattupuzha

Muvattupuzha P.O Ernakulam District Kerala, India, Pin:686661

Email : info@nirmalacp.org, Phone : 04852836888

Topic Coverage Status

Institute	Nirmala College of Pharmacy, Muvattupuzha
Course	B Pharm
Batch	2019-2023
Semester	6
Subject	Biopharmaceutics and Pharmacokinetics – Theory
Faculty	Dhanish Joseph
Number of Modules	4
Number of Topics	31
Completed Percentage	100%

Sl.No	Module Name	Topic Name	Proposed Date	Status	Description	Updated Date
1	Unit I Introduction to Biopharmaceutics	Introduction to Biopharmaceutics	06/02/2023	Fully Covered		06/02/2023
2	Unit I Introduction to Biopharmaceutics	Absorption Mechanisms of drug absorption through GIT	08/02/2023	Fully Covered		13/02/2023
3	Unit I Introduction to Biopharmaceutics	physico chemical factors	13/02/2023	Fully Covered		15/02/2023
4	Unit I Introduction to Biopharmaceutics	physico chemical factors -Solubility, Polymorphs, Pseudo Polymorphs	15/02/2023	Fully Covered		15/02/2023
5	Unit I Introduction to Biopharmaceutics	Salt form and Hypothesis	20/02/2023	Fully Covered		20/02/2023
6	Unit I Introduction to Biopharmaceutics	Limitations of hypothesis	20/02/2023	Fully Covered		27/02/2023
7	Unit I Introduction to	Technical factors-Manufacturing variables	22/02/2023	Fully		28/02/2023

Sl.No	Module Name	Topic Name	Proposed Date	Status	Description	Updated Date
	Biopharmaceutics			Covered		
8	Unit I Introduction to Biopharmaceutics	Pharmaceutical ingredients	27/02/2023	Fully Covered		06/03/2023
9	Unit I Introduction to Biopharmaceutics	Nature of dosage form	01/03/2023	Fully Covered		06/03/2023
10	Unit I Introduction to Biopharmaceutics	absorption of drug from Non per oral extra vascular routes	06/03/2023	Fully Covered		12/06/2023
11	Unit I Introduction to Biopharmaceutics	Distribution of drugs Tissue permeability of drugs binding of drugs apparent volume of drug distribution	08/03/2023	Fully Covered		07/03/2023
12	Unit I Introduction to Biopharmaceutics	Factors affecting distribution	13/03/2023	Fully Covered		13/03/2023
13	Unit I Introduction to Biopharmaceutics	Protein binding of drugs factors affecting protein drug binding	15/03/2023	Fully Covered		15/03/2023
14	Unit I Introduction to Biopharmaceutics	Factors affecting protein binding part 2	20/03/2023	Fully Covered		03/04/2023
15	Unit I Introduction to Biopharmaceutics	Kinetics of protein binding Clinical significance of protein binding of drugs	22/03/2023	Fully Covered		31/05/2023
16	Unit I Introduction to Biopharmaceutics	IV Bolus Part II	27/03/2023	Fully Covered		29/05/2023
17	Unit I Introduction to Biopharmaceutics	IV Infusion Part II	29/03/2023	Fully Covered		24/05/2023
18	Unit III Pharmacokinetics	Pharmacokinetics Introduction to Pharmacokinetics models Compartment models	03/04/2023	Fully Covered		26/04/2023
19	Unit III Pharmacokinetics	Non compartment models physiological models	05/07/2023	Fully Covered		14/06/2023
20	Unit III Pharmacokinetics	One compartment open model Intravenous Injection (Bolus)	24/04/2023	Fully Covered		08/05/2023
21	Unit III Pharmacokinetics	Intravenous infusion	26/04/2023	Fully Covered		15/05/2023
22	Unit III Pharmacokinetics	Extra vascular administrations	01/05/2023	Fully Covered		15/05/2023
23	Unit III Pharmacokinetics	calculations of Ka and KE From plasma	03/05/2023	Fully Covered		17/05/2023

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24	Unit III Pharmacokinetics	Extra vascular in lag time	08/05/2023	Fully Covered		17/05/2023
25	Unit III Pharmacokinetics	Urin Analysis	10/05/2023	Fully Covered		22/05/2023
26	Unit III Pharmacokinetics	Sigma Minus Method	15/05/2023	Fully Covered		22/05/2023
27	UNIT IV Multicompartment models	Multicompartment models Two compartment open model IV bolus	17/05/2023	Fully Covered		14/06/2023
28	UNIT IV Multicompartment models	Multiple Dosage Regimens	22/05/2023	Fully Covered		14/06/2023
29	UNIT IV Multicompartment models	Repititive Intravenous injections One Compartment Open Model	24/05/2023	Fully Covered		13/06/2023
30	UNIT IV Multicompartment models	Repititive Extravascular dosing One Compartment Open model	29/05/2023	Fully Covered		12/06/2023
31	Unit VI Content Beyond the syllabus	Applications of bppk	31/05/2023	Fully Covered		16/06/2023



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Semester	6
Subject	Biopharmaceutics and Pharmacokinetics – Theory
Faculty	Vidya Peter
Number of Modules	2
Number of Topics	14
Completed Percentage	100%

Sl.No	Module Name	Topic Name	Proposed Date	Status	Description	Updated Date
1	Unit II Biotransformation	Biotransformation INTRODUCTION	10/02/2023	Fully Covered		10/02/2023
2	Unit II Biotransformation	Phase I REACTIONS	13/02/2023	Fully Covered		14/02/2023
3	Unit II Biotransformation	reduction and hydrolysis	31/12/2021	Fully Covered		28/02/2023
4	Unit II Biotransformation	Phase II Biotransformation	07/01/2022	Fully Covered		07/03/2023
5	Unit II Biotransformation	FACTORS AFFECTING BIOTRANSFORMATION	14/01/2022	Fully Covered		14/03/2023
6	Unit II Biotransformation	Renal excretion of drugs	21/01/2022	Fully Covered		10/05/2023
7	Unit II Biotransformation	Factors affecting renal excretion of drugs, renal clearance	28/01/2022	Fully		28/03/2023

SI.No	Module Name	Topic Name	Proposed Date	Status	Description	Updated Date
				Covered		
8	Unit II Biotransformation	Non renal routes of drug excretion of drugs, biliary	11/02/2022	Fully Covered		02/05/2023
9	Unit II Biotransformation	Non renal routes of drug excretion of drugs	18/02/2022	Fully Covered		10/05/2023
10	Unit II Biotransformation	Bioavailability and Bioequivalence Objectives of bioavailability studies absolute and relative bioavailability measurement of bioavailability	25/02/2022	Fully Covered		23/05/2023
11	Unit II Biotransformation	In-vitro drug dissolution models in vitro in vivo correlations	04/03/2022	Fully Covered		30/05/2023
12	Unit II Biotransformation	Bioequivalence studies	11/03/2022	Fully Covered		30/05/2023
13	Unit V Nonlinear Pharmacokinetics	Nonlinear Pharmacokinetics Introduction Factors causing Non-linearity	18/03/2022	Fully Covered		06/06/2023
14	Unit V Nonlinear Pharmacokinetics	Michaelis-menton method of estimating parameters	25/03/2022	Fully Covered		06/06/2023