



## DR. B. C. ROY COLLEGE OF PHARMACY & AHS, DURGAPUR (NBA Accredited for UG Pharmacy Program)

### FACULTY: RITUPARNA CHAKI GHOSH

**PROGRAM: M. PHARM**

**Course Code:** MPT2062

**Course Name:** ADVANCED BIOPHARMACEUTICS AND PHARMACOKINETICS

**SYLLABUS LINK:** [CLICK HERE](#)

#### **SCOPE**

This course is designed to impart knowledge and skills necessary for dose calculations, dose adjustments and to apply biopharmaceutics theories in practical problem solving. Basic theoretical discussions of the principles of biopharmaceutics and pharmacokinetics are provided to help the students to clarify the concepts.

#### **Suggested Books for the Course (with links):**

<b>Sl. No.</b>	<b>Book Name, Ed., Vol</b>	<b>Authors</b>	<b>Weblink(s)</b>
1.	<i>Applied Biopharmaceutics and Pharmacokinetics</i>	<i>Leon Shargel Susanna Wu-Pong Andrew B.C. Yu</i>	
2.	<i>Biopharmaceutics and Pharmacokinetics-A Treatise</i>	<i>D.M.Brahmankar and Sunil B.Jaiswal</i>	
3.	<i>Biopharmaceutics and Clinical Pharmacokinetics</i>	<i>Milo Gibaldi.</i>	
4.	<i>Biopharmaceutics and Pharmacokinetics</i>	<i>Robert F Notari</i>	



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**Supplementary Materials for Reference and Self Study:**

Date	Module (as per Lesson Plan)	Topic	Live Recording Link	Powerpoint Presentation Link	Supplementary Notes / Resources
16/04/2021	UNIT I	GIT; Routes of drug administration; Mechanisms of drug absorption through GIT	<a href="#">CLICK HERE</a>	<a href="#">CLICK HERE</a>	<a href="#">GIT</a>  <a href="#">VIDEO LINK OF DRUG ABSORPTION</a>
23/04/2021	UNIT I & UNIT 2	Mechanisms of drug absorption through GIT; Factors affecting drug absorption	<a href="#">CLICK HERE</a>	<a href="#">CLICK HERE</a>	
30/04/2021	UNIT I & UNIT 2	Physico-chemical factors affecting drug absorption	<a href="#">CLICK HERE</a>	<a href="#">CLICK HERE</a>	
07/05/2021	UNIT I & UNIT 2	Dosage form factors affecting absorption	<a href="#">CLICK HERE</a>	<a href="#">click here</a>	
21/05/2021	UNIT 1	IVIVC	<a href="#">CLICK HERE</a>	<a href="#">CLICK HERE</a>	
28/05/2021	UNIT 1	IVIVC	<a href="#">CLICK HERE</a>	<a href="#">CLICK HERE</a>	
18/06/2021	UNIT I	TRANSPORT MODEL	<a href="#">CLICK HERE</a>	<a href="#">CLICK HERE</a>	
09/07/2021	UNIT 2	In vitro: dissolution and drug release testing, compendial methods of dissolution,	<a href="#">CLICK HERE</a>	<a href="#">CLICK HERE</a>	<a href="#">CLICK HERE</a>



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		<i>alternative methods of dissolution testing, meeting dissolution requirements, problems of variable control in dissolution testing performance of drug products.</i>			
30/07/2021	UNIT 5	<i>PKs of proteins, peptides and Mab</i>  <i>MODIFIED RELEASE PRODUCTS</i>	<a href="#">click here</a>	<a href="#">CLICK HERE</a>  <a href="#">CLICK HERE</a>	