



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

FACULTY: RITUPARNA CHAKI GHOSH

PROGRAM: B. PHARM

Course Code: PT-316

Course Name: PHYSICAL PHARMACEUTICS-I

Suggested Books for the Course (with links):

Sl. No.	Book Name, Ed., Vol	Authors	Weblink(s)
1.	<i>Martin's Physical Pharmacy and Pharmaceutical Sciences, 6TH Edition</i>	<i>Alfred N. Martin, Patrick J. Sinko, Yashveer Singh</i>	CLICK HERE
2.	<i>Advanced Pharmaceutics Physicochemical principles</i>	<i>Cherng-ju Kim</i>	CLICK HERE
3.	<i>Physical Pharmacy, 2nd Edition</i>	<i>S.P. Agarwal, Rajesh Khanna</i>	LINK WILL BE PROVIDED LATER

Supplementary Materials for Reference and Self Study:

Date	Module (as per Lesson Plan)	Topic	Live Recording Link	Powerpoint Presentation Link	Supplementary Notes / Resources	Remarks
21/07/2020	*****	<i>Introduction to the subject</i>	click here	click here	RECORDED CLASS CONTENT	click here
22/07/2020	II	<i>Introduction to States of matter</i>	click here	click here		
28/07/2020	II	<i>Discussion on gaseous state</i>	youtube	click here	CLICK HERE	
29/07/2020	II	<i>Discussion on liquid state</i>	youtube	click here		



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

04/08/2020	II	Discussion on solid state	click here	click here		
05/08/2020	II	Polymorphism, Solvates and amorphous solids	CLICK KERE	click here		
12/08/2020	II	LIQUID CRYSTALS	CLICK HERE	CLICK HERE	CLICK HERE	
18/08/2020	II	SUBLIMATION, SUPERCRITICAL FLUID, RELATIVE HUMIDITY,	RECORDED CLASS click here	CLICK HERE	LYOPHILIZATION PHASE DIAGRAM LYOPHILIZATION	
19/08/2020	II	GLASSY STATE EUTECTIC MIXTURES	click here	CLICK HERE		
25/08/2020	II	REFRACTIVE INDEX AND OPTICAL ROTATION	CLICK HERE	CLICK HERE	CLICK HERE FOR ALL RELATED VIDEOS	
26/08/2020	II	DIELECTRIC CONSTANT & DIPOLE MOMENT	CLICK HERE	Click here		
01/09/2020	II	DISSOCIATION CONSTANT	CLICK HERE	CLICK HERE		
02/09/2020	III	SURFACE & INTERFACIAL TENSION: BASIC CONCEPTS AND	CLICK HERE	CLICK HERE		



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

		EXPRESSION				
07/09/2020	III	Measurement of Surface tension	Click here	Click here	Ring detachment method Working of stalagmometer PDF RELATED TO TOPIC	
08/09/2020	III	Spreading phenomenon	Click here	Click here		
15/09/2020	III	Surfactants: Introduction and Types	Click here	Click here		
16/09/2020	III	Surfactants and HLB value	Click here	Click here		
22/09/2020	III	Micelle formation	CLICK HERE	CLICK HERE	Content from 45 secs	
23/09/2020	III	Significance of micelle formation	CLICK HERE	CLICK HERE		
01/12/2020	III	Solubilization & Detergency	CLICK HERE	CLICK HERE	Detergency	
02/12/2020	III	Adsorption, Soluble & insoluble Monolayers	CLICK HERE	CLICK HERE CLICK HERE		
8/12/2020	V	Buffers and Isotonic solutions	CLICK HERE	CLICK HERE	CLICK HERE	
9/12/2020	V	Buffers and isotonic solutions	CLICK HERE	CLICK HERE		
19/01/2021	ALL	REVISION	CLICK HERE	*****		



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

20/01/2021	ALL	REVISION	CLICK HERE	*****		
02/02/2021	UNITII	REVISION	CLICK HERE	Refer all class notes for UNITII		
03/02/2021	UNITII	REVISION	CLICK HERE	Refer earlier class notes for UNITII		
09/02/2021	UNITII	REVISION	CLICK HERE	Refer earlier class notes for UNITII		
10/02/2021	UNITIII	REVISION	CLICK HERE	Refer earlier class notes for UNITIII		
16/02/2021	UNITIII	REVISION	CLICK HERE	Refer earlier class notes for UNITIII		
17/02/2021	UNITIII	REVISION	CLICK HERE	Refer earlier class notes for UNITIII		
23/02/2021	UNITIII	REVISION	CLICK HERE	Refer earlier class notes for UNITIII		
24/02/2021	UNITIII	REVISION	CLICK HERE	Refer earlier class notes for UNITIII		