TEMPLATE FOR VIDEO & SUPPLEMENTARY MATERIAL POSTING

FACULTY: IC

PROGRAM: B. PHARM

Course Code: **PT 416**
Course Name: **Physical Pharmaceutics-II**

Suggested Books for the Course (with links):

Sl. No.	Book Name, Ed., Vol	Authors	Weblink(s)
1.	Martin's Physical Pharmacy and Pharmaceutical Sciences, 6th ed.,2011	Patrick J. Sinko (Editor)	martins-physical-pharmacy-6th-ed-2011-dr-murtadha-alshareifi.pdf
2.	FASTtrack Physical Pharmacy (2007, Pharmaceutical Press)	David Attwood Alexander T. Florence	Florence - FASTtrack_ Physical Pharmacy (2007, Pharmaceutical Press) - libgen.lc.pdf
3.			

(add more rows if needed)

Supplementary Materials for Reference and Self Study: *(add more rows if needed)*

Date	Module (as per Lesson Plan)	Topic	Live Recording Link	Powerpoint Presentation Link	Supplementary Notes / Resources	Remarks, if any
13.04.2021	I	Introduction to the course, objectives and outcomes, Colloidal Dispersion: types of dispersion system	https://youtu.be/sCGWxWM3Rh8	https://drive.google.com/file/d/1ruisa4sZlgUkwPF52yqSwfkPlK72chzo/view?usp=sharing	Click here	-

20.04.2021	I	Characteristics of Dispersed phase particle in Colloidal Dispersion,Classification of Colloidal dispersion	https://youtu.be/A_jCv46rfbc	https://drive.google.com/file/d/1i_I_gHDX6U2Yo_o_7rKNaYfggymjgyY3/view?usp=sharing	Click here	-
04.05.2021	I	Classification of colloidal dispersion : Lyophilic, Lyophobic and Association colloid, Method of preparation of colloidal dispersion	http://www.youtube.com/watch?v=TdivMqw7YlQ	https://drive.google.com/file/d/1r6lp3WIW1juAUW_hFDXEONPC4iThqXFC/view?usp=sharing	Click here	-
08.05.2021	I	Method of preparations of colloidal dispersion by condensation method and purification of colloidal dispersion	https://youtu.be/wnWJWKatS7c	https://drive.google.com/file/d/14sfle5Fv15rzL3lWUx2hWjIEaOi-jXAk/view?usp=sharing	Click here	-

11.05.2021	I	Optical properties of colloids	https://youtu.be/WmCRq2cBWkI	https://drive.google.com/file/d/1vqZW8z1TuFr6tciZlbUldj2lIEbweuWk/view?usp=sharing	Click here	-
15.05.2021	I	Optical properties of colloids : determination of M.W of colloids and association colloids, application of light scattering,discussion on some phenomena occurs in nature	https://youtu.be/oPFVf-_rU9U	https://drive.google.com/file/d/1wjiHunDZ_9C_szhdfOERk6wG_7Ci6leD/view?usp=sharing	Click here	-
18.05.2021	I	Kinetics properties of colloids	http://www.youtube.com/watch?v=yMkSYBa_AE8	https://drive.google.com/file/d/1PNVTsQfVgtILTVcT1qN_SLPZED88K4ko/view?usp=sharing	Click here	-

22.05.2021	I	Kinetic Properties of Colloids: Osmosis, sedimentation	http://www.youtube.com/watch?v=_cR4QUxjjzQ	https://drive.google.com/file/d/1QE9Iti_EBcjLjbzkmz5qgxkRTv4UM-Gp/view?usp=sharing	Click here	-
25.05.2021	I	Kinetic Properties of Colloids: sedimentation, viscosity	Click here	Click here	Click here	-
29.05.2021	I	Electrical properties of Colloids, Donnan membrane equilibrium concept	Click here	Click here	Click here	-
01.06.2021	I	Electrical properties of Colloids:Effect of charge on Colloids, Concept of the Electrical double layer	Click here	Click here	Click here	-

05.06.2021	I	Electrical Double layer, Stability of colloids: Addition of electrolytes to Lyophobic Colloids	Click here	Click here	Click here	-
08.06.2021	I	Stability of colloids: Addition of electrolytes to Lyophilic colloids, salting out, Coacervation, protective action of colloid	Click here	Click here	Click here	-
15.06.2021	I	Solubilization, Application of Colloids in Pharmacy	Click here	Click here	Click here	-
19.06.2021	V	Drug stability: definition, importance, Chemical kinetics and its application,molecularity of a reaction	Click here	Click here	Click here	-

20.06.2021	I	Derivation: Van't Hoff, the equations related with Diffusion coefficient and M.W, Diffusion Coefficient, Sedimentation Coefficient and M.W	Already discussed on 18.05.21, 22.05.21 and 25.05.21	Click here	Click here	-
06.07.2021	V	Drug Stability:Order of a reaction, Zero order reaction, first order reaction, expressions related with Half life, Shelf life and Rate constant for both the order of reactions	Click here	Click here	Click here	-
10.07.2021	V	Drug stability: second order reaction, Pseudo zero order & pseudo first order reaction,determination of order of a reaction	Click here	Click here	Click here	-

15.07.2021	V	Drug stability:Effect of temperature on reaction rate, decomposition of pharmaceutical product-physical degradation	Click here	Click here	Click here	-
17.07.2021	V	Drug stability: rest part of Physical degradation, Chemical degradation - Hydrolysis	Click here	Click here	Click here	-
22.07.2021	V	Drug stability: Chemical degradation - hydrolysis , Oxidation, mechanism of auto-oxidation process, Mode of action of antioxidant, protection against oxidation	Click here	Click here	Click here	-

24.07.2021	V	Drug stability: Photolytic degradation and its prevention, Accelerated Stability study and its limitations, addition of overages	Click here	Click here	Click here	-
27.07.2021	V	Drug stability: Catalysis,Specific and general acid base catalysis, numericals on chemical kinetics and drug stability	Click here	Click here	Click here	
31.07.2021	V	Drug stability: Effect of solvent, Dielectric constant and Ionic strength on rate of reaction	Click here	Click here	Click here	
05.08.2021	V	Deformation of Solids : Stress, Strain, Elastic Modulus, Types of Strain, Repacking, Elastic and Plastic deformations, Microsquashing, Force-volume relationship: Heckel plot	-	Click here	-	


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