

Institute/School Name	Chitkara College of Pharmacy		
Department Name	Pharmacy		
Programme Name	B. Pharmacy		
Course Name	Pharmaceutics-I	Session	July- Dec 25
Course Code	BP103T	Semester/Batch	1 st Sem/2025
L-T (Per Week)	3-1	Course Credits	4
Pre-requisite	NA	NHEQF Level	5.5
Course Coordinator	Dr. Akash Deep		
SDG	SDG3: Good health and well-being , SDG4: Quality Education		

Objectives of the Course: Upon completion of this course, the student should be able to know the history of the profession of pharmacy; understand the basics of different dosage forms, pharmaceutical incompatibilities and pharmaceutical calculations; understand the professional way of handling the prescription; preparation of various conventional dosage forms.

Course Outcomes (COs)

Students should be able to:

	COs	Program Outcomes (PO)	NHEQF Level Descriptor	No. of Lectures
CO01	Demonstrate fundamental knowledge in preparing conventional dosage forms.	PO1, PO6	Q1	10
CO02	Learn the basics of the pharmacopoeias available.	PO1	Q2	4
CO03	Apply knowledge of various pharmaceutical dosage calculations.	PO2, PO3	Q1, Q4	10
CO04	Understand various techniques for the formulation research and evaluation of powders and liquid dosage forms.	PO3, PO4	Q2, Q4	12
CO05	Identify various pharmaceutical incompatibilities and gain knowledge about semisolid dosage form.	PO9	Q4	12
Total Contact Hours				48

CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	Type of Assessment's
CO01	3					2						Summative/ Formative
CO02	3											Summative/ Formative
CO03		3	3									Summative/ Formative
CO04			3	3								Summative/ Formative
CO05									2			Summative/ Formative

3=High, 2=Medium, 1=Low

Recommended Books:

B01: Allen, L.V., Ansel, H.C., Pharmaceutical Dosage Forms and Drug Delivery, Wolters Kluwer Health Publisher, Tenth Edition, 2014.

B02: Pawar, A., Gaud R. S., Modern Dispensing Pharmacy, Fourth edition, 2015.

B03: Carter, S.J., Dispensing for pharmaceutical student, Twelfth edition, 2018.

B04: Mehta, R. M., Pharmaceutics-I, Revised Sixth edition, 2015.

B05: Narang, J.K., Bakshi, I. S., Dogra, A., Textbook of Pharmaceutics-I, First edition, 2019.

Other readings and relevant websites:

Serial No	Link of Journals, Magazines, websites and Research Papers
1.	www.sciencedirect.com
2.	www.pubmed.com
3.	www.pharmaguideline.com
4.	www.sciencedirect.com

Lecture Plan

Lect · No.	Topics	Book No, CH No, Page No	TLM	ALM	Web References	Audio - Video
1-3	History of profession of Pharmacy in India in relation to pharmacy education, industry and organization, Pharmacy as a career,	B02, CH-1, Page no-11-14	Lecture, Inductive methods	Discussio n, Questioni ng	https://www.slideshare.net/slideshow/unit-1-history-and-development-of-pharmacy/266293550	
4-7	Pharmacopoeias: Introduction to IP, BP, USP and Extra Pharmacopoeia	B04, CH -02 Page no -36-48	Lecture, Active learning	Discussion, Questioning	https://www.slideshare.net/slideshow/introduction-to-pharmacopoeia1pptx/260374931	
8-10	Dosage forms: Introduction to dosage forms, classification and definitions	B04, CH-01, Page no- 1-35	Lecture, Inductive teaching and learning	Discussio n, Questioni ng	https://www.slideshare.net/AdityaSharma666/introduction-to-dosage-formspptx	
11-14	Prescription	B05, CH-02, Page no- 07-11	Discussion , Inductive teaching and learning	Discussion, Questioning	https://www.slideshare.net/slideshow/prescriptionppt/169514324	
15-17	Posology	B05, CH-05, Page no- 67-72	Lecture, Active learning	Discussion, Questioning	https://www.slideshare.net/slideshow/posology-104038801/104038801	
18-24	Pharmaceutical calculations	B03, CH-12, Page no -168-176	Discussion , Active learning	Discussio n, Questioni ng	https://www.slideshare.net/slideshow/pharmaceuticals-calculations-ppt/249340150	

25-26	Powders: Definition, classification, advantages and disadvantages, Simple and compound powders – official preparations, dusting powders	B-05, CH-07 Page no - 108-109	Discussion , Inductive teaching and learning	Discussion, Questioning	https://www.slideshare.net/slideshow/classification-of-powders/249851053	
27-28	Effervescent, efflorescent and hygroscopic powders, eutectic mixtures. Geometric dilutions.	B05, CH-07, Page no-114-116	Discussion , Inductive teaching and learning	Discussion, Questioning	https://pharmacy.kkwagh.edu.in/uploads/study_material/fy/FY%20-%20PH%20-%20Powders%20Notes.pdf	
29-30	Liquid dosage forms	B05, CH-08, Page no – 152-153	Discussion , Inductive teaching and learning	Discussion, Questioning	https://pharmacy.kkwagh.edu.in/uploads/study_material/fy/FY%20-%20PH%20-%20Liquid%20Dosage%20forms.pdf	
31-34	Monophasic liquids	B05, CH-08, Page no-165-166,169-170	Lecture, Inductive methods	Discussion, Questioning	https://www.gputtawar.edu.in/downloads/Monophasic%20Liquid%20Dosage%20Forms.pdf	
35-37	Biphasic liquids	B05, CH- 10, Page no-197-223 B05, CH-09 Page no-182-194	Discussion , Inductive methods	Discussion, Questioning	https://www.slideshare.net/slideshow/biphasicliquiddosageformspptx/260254096	
38-40	Suppositories	B05, CH-12, Page no-257-270	Lecture, Inductive teaching and learning	Discussion, Questioning	https://www.slideshare.net/ravikumarpatil26/suppositories-80549959	
41-43	Pharmaceutical incompatibilities	B05, CH-15, Page no-315-337	Lecture, Active learning	Discussion, Questioning	https://www.slideshare.net/slideshow/pharmaceutical-incompatibilities-238657133/238657133	
44-46	Semisolid-dosage forms: Definitions, classification, mechanisms and factors influencing dermal penetration of drugs. Preparation of ointments, pastes, creams and gels.	B04, CH-11, Page no-226-256	Lecture, Inductive teaching and learning	Discussion, Questioning	https://www.slideshare.net/slideshow/unit-v-semisolid-dosage-formspdf/266302076	
47-48	Excipients used in semi solid dosage forms. Evaluation of semi solid dosages forms	B04, CH-11, Page no-226-256	Lecture, Inductive teaching and learning	Discussion, Questioning	https://www.pharmaguideline.com/2006/10/excipients-used-in-semi-solid-dosage.html	

Teacher in-charge

Assistant Dean

Dean