



Branch Name:	Bachelor of Pharmacy
Program Code:	PH101
Course Name:	General Pharmacy (Practical)
Course Code:	1BP107P

Teaching Scheme (Hours per week)				Evaluation Scheme (Marks)		
Lecture	Tutorial	Practical	Credit	Theory (T)		Total Marks
				Continuous Assessment	University Assessment	
						Theory
NA	-	3	1	20	30	50

1. Familiarize students with essential pharmaceutical calculations including dilution, concentration, and allegation methods required for accurate formulation of dosage forms.
2. Impart practical skills in the preparation of official and non-official dosage forms such as solutions, syrups, powders, granules, suppositories, semisolids, gargles, and mouthwashes in accordance with pharmacopeial standards.
3. Develop understanding of formulation principles related to selection of ingredients, dosage form design, stability, and patient acceptability.
4. Train students in the application of pharmacopoeial specifications (IP, BPC, WHO) during compounding, labeling, and evaluation of pharmaceutical preparations.
5. Enhance hands-on competency and professional confidence required for dispensing practice and pharmaceutical compounding in hospital and community pharmacy settings.

CO No.	Upon successful completion of this course, the students will be able to:
1	Perform accurate pharmaceutical calculations using dilution and allegation principles for the preparation of various dosage forms.
2	Prepare and dispense liquid dosage forms such as solutions, syrups, gargles, and mouthwashes following official pharmacopeial procedures.
3	Formulate solid dosage forms including powders, divided powders, dusting powders, and effervescent granules as per standard guidelines.
4	Prepare semisolid and specialized dosage forms such as ointments, liniments, and suppositories using appropriate bases and techniques.
5	Compile and evaluate a compendium of marketed dosage forms, demonstrating compliance with pharmacopeial standards, labeling requirements, and patient-centric considerations

List of Practical	
1. Pharmaceutical Calculations	Solutions based on allegation and dilution methods
2. Solutions	

a) Strong solution of ammonium acetate – IP b) Cresol with soap solution – IP c) Lugol's solution – BPC
3. Syrups a) Simple Syrup – IP
3. Powders & Granules a) ORS powder – WHO b) Effervescent granules – IP c) Dusting powder – IP 4. Divided powders – IP
5. Suppositories a) Glycerogelatin suppository – BPC b) Cocoa butter suppository – IP c) Zinc Oxide suppository – IP
6. Semisolids a) Sulphur ointment – IP b) Non-staining iodine ointment with methyl salicylate – BPC
7. Gargles & Mouthwashes a) Iodine gargle – BPC b) Chlorhexidine mouthwash – IP
Note: <i>a) Preparation of compendia of dosage forms (marketed products), is recommended.</i> <i>b) Any other practical relevant to the syllabus can be introduced.</i> <i>Minimum 12 experiments must be performed covering all dosage forms.</i>

References:

1. Carter, S.J., *Cooper and Gunn's Dispensing for Pharmaceutical Students*. 12th ed. New Delhi: CBS Publishers.
2. Indian Pharmacopoeia Commission, *Indian Pharmacopoeia*, Vol. I. Ghaziabad: IPC.
3. United States Pharmacopeial Convention, *United States Pharmacopoeia–National Formulary (USP–NF)*. Rockville, MD, USA.
4. British Pharmacopoeia Commission, *British Pharmacopoeia Codex*. London: The Stationery Office.
5. World Health Organization, *Oral Rehydration Salts (ORS) Formulation Guidelines*. Geneva: WHO.

List of Open Source Software/learning website: Nil