



BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, Pilani
Pilani Campus
AUGS/ AGSR Division

SECOND SEMESTER 2020-21
COURSE HANDOUT

Date: 11.01.2021

In addition to part I (General Handout for all courses appended to the Time table) this portion gives further specific details regarding the course.

Course No : PHA F212
Course Title : Dispensing Pharmacy
Instructor-in-Charge : Dr. Gautam Singhvi
Tutorial/Practical Instructors:

1. Course Description: Prescriptions, principles involved in the dispensing of prescriptions; physical, chemical and therapeutic incompatibilities involved and their remedy in such prescriptions; techniques involved in dispensing of mixtures. ENT preparations, parenteral products, radiopharmaceuticals, etc.

2. Scope and Objective of the Course: This course is concerned with the preparation and dispensing of medicines. It intends to impart knowledge to the students on various aspects of dispensing of medicaments with stress on compounding, stability, incompatibilities, packing methods and labeling procedures. It also orients the students to take the responsibilities of a hospital pharmacist.

3. Text Books:

1) Carter, S. J., Cooper and Gunn's Dispensing for Pharmaceutical Students, Pitman Medical Publishing Co. Ltd., 12th Ed, 1975.

4. Reference Books:

- a) Merchant, S. H., Qadry, J. S., A Textbook of Hospital Pharmacy, B. S. Shah Prakashan, 2nd Ed., 1994.
- b) Remington's Pharmaceutical Sciences, Mack Publishing Company, 17th Ed., 1985.
- c) Different Pharmacopias.
 - Indian Pharmacopoeia 1996.
 - British Pharmacopoeia 1999.
 - United States Pharmacopoeia 2006.
 - Martindale: The Extra Pharmacopoeia 1999.

5. Course Plan:

Lecture No.	Lecture Title	Reference* Chapter./Sec.#	Learning outcome
1	Introduction	T- Chapter 1	Definition and scope of dispensing pharmacy. Historical background and development of profession of pharmacy



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2	Prescription	T- Chapter 1	Components of prescriptions; Sources of information
3-4	General dispensing procedures	T- Chapters 1, 5 and 6	Basics of proper dispensing; Fundamental operations in compounding including weighing and measurements
5	Latin terms and abbreviations	T- Appendix 9	Understanding commonly used terminologies in a prescription
6	Modern methods of prescribing	Class-notes	Care to be taken and sources of error in a prescription
7	Dosage form and Dispensed preparations	T- Chapter 2	Type of dosage forms, Various types of dispensed preparations
8-9	Labeling	T-Chapter 4 and Appendix 7	Labeling requirements for dispensed products according to regulatory guidelines
10	Posology	T- Appendix 10	Dose and its calculations
11-12	Pharmaceutical calculations	T- Chapter 8 and Appendix 8	Understanding various types of calculations involved in dispensing
13-14	Containers and closures	T-Chapters 3 & 21 and Appendix 7	Various types of packaging containers/ materials for dispensed products
15-16	Additives	T-Chapter 7 and Appendix 1	Colour, flavour, antioxidants and preservatives employed in dispensed products
17-18	Solutions	T-Chapter 9	Various types of solution preparations such as aromatic water, elixirs etc.
19-20	Suspensions	T-Chapter 10	Formulation, evaluation and stability of suspensions
21-23	Emulsions and creams	T-Chapter 11	Formulation, evaluation and stability of emulsions and creams
24-25	Powders and oral unit dosage forms	T-Chapter 12	Formulation and evaluation of different types of powders; Critical parameters in tablet and capsule manufacturing
26-28	Ointments, pastes and jellies	T-Chapter 13	Different types of ointment bases; Formulation and evaluation of ointments, pastes and jellies
29	Suppositories and Pessaries	T-Chapter 14	Formulation and evaluation of suppositories and pessaries
30	Sterile dosage forms	T-Chapter 20 and 29; Class-notes	Introduction to ophthalmic and parenteral preparations
31-33	Incompatibilities	T-Chapter 15	Physical, chemical and therapeutic incompatibilities
34-35	Hospital pharmacy practice	Ref (a)	Setting up a hospital pharmacy; Duties and responsibilities of a hospital pharmacist



6. Evaluation Scheme:

Component	Duration	Weightage (%)	Date & Time	Nature of component (Close Book/ Open Book)
Quiz/assignment/presentation	-	20%	Continuous	Closed Book+ Open Book
Mid Term Test	90 minutes	25%		Closed Book
Laboratory Component	Continuous	20%	To be announced	Open Book
Comprehensive Examination	180 minutes	35%		Closed Book

7) Chamber Consultation Hours: To be announced in class.

8) Notices: All the notices pertaining to this course will be displayed only on Pharmacy Notice board.

9) Make-up policy: Prior approval or intimation to take a make-up is a must. It is solely the discretion of the instructor-in-charge, depending upon the genuineness of the circumstances, to allow a student to appear for a make-up evaluation component.

10) NOTE: Academic honesty and integrity are to be maintained by all the students throughout the semester and no type of academic dishonesty is acceptable.

Instructor-in-charge
Course No. PHA F212