#### **SECOND SEMESTER 2019-2020**

Course Handout

Date: 06/01/2020

Course No : PHA F343

Course Title : Forensic Pharmacy
Instructor-in-charge : Balaram Ghosh

#### 1a. Course Description:

A study of the professional pharmacist's relation to the public and to other professions; a critical survey

of statutory regulations governing the practice of pharmacy and drug industry in all its aspects; history and ethics of the profession of pharmacy.

# 1b. Learning Outcomes (course benefits): Students who have undergone the course are expected to:

- have a working knowledge of the various legislations that have a direct bearing on the medical and pharmaceutical professions.
- understand how the laws embrace various fields such as manufacturing pharmacy, professional pharmacy, pharmaceutical education and drug administration.
- understand the regulations, requirements, procedures and applications of new drug approval process (NDA)
- Know the procedures for obtaining IPRs like patents, copyrights and trademarks with emphasis on Indian patent filing details.
- Remember the Ethics in Pharmacy & Medical profession in their profession.

#### 2a. Text Book (TB):

Mithal B. M., Text Book of Forensic Pharmacy Vallabh, 10<sup>th</sup> Ed., 1999.

#### 2b. Reference Books:

- R1: Sidney H. Willig, Murray M. Tuckerman and William S. Hitchings IV, Good Manufacturing Practices for Pharmaceuticals: A Plan for Total Quality Control. Marcel Dekker, New York, 4<sup>th</sup> Edn., Vol. 78, 1997.
- R2: Richard A. Guarino, New Drug Approval Process. Marcel Dekker, New York, 2<sup>nd</sup> Edn., Vol. 56, 1993.
- R3: Jain N.K., Pharmaceutical Jurisprudence. Vallabh Prakashan, Delhi, 3<sup>rd</sup> Edn., 1995.



## 3. Course Plan:

L.No	Learning Objectives	Topics to be Covered	Chapter in the Text Book
1	Introduction to importance of	Introduction; Importance of Forensic	TB-Chap
	Forensic Pharmacy	Pharmacy; Growth of modern pharmacy	1; Class
		& pharmaceutical industry	notes
2	Regulatory interventions in	Overview of Regulatory interventions in	Lecture
	Pharmacy Profession	various aspects of Pharmacy Profession	Notes
3-4	Regulatory control of teaching and practice of pharmacy	Various provisions of Pharmacy Act; Structure and Functions of Pharmacy	TB-Chap 3
		Council of India and State Pharmacy	
		Councils; Provisions of Shops and	
		Establishment Act w.r.t. retailing of drugs	
5-8	Provisions of Drugs and Cosmetics Act	Laws under Drugs and Cosmetics Act and Rules related to import, manufacture, labelling and sale of Allopathic, Ayurvedic and Homeopathic drugs; Administration	TB-Chap 6
		of Act and Rules	
9-12	Various provisions of Schedule M (Concepts and tools in the implementation and control of current Good Manufacturing Practices in the Pharmaceutical industry)	Overview of Good Manufacturing Practices w.r.t. Organization & Personnel, Buildings & Facilities, Equipment, Production & Process control, Packaging & Labeling control, Laboratory controls- Documentation, Reports & Records	TB-Chap 6; Various chapters of R1
13-	Costing of Pharmaceutical	Provisions of Drug Price Control Order	TB-
14	Products		Chap13;
			Lect.
			notes
15	Provisions of Narcotic and	Narcotic and Psychotropic Substances	TB-Chap 4
	Psychotropic Substances Act	Act; Prohibited and Controlled	R3
		Operations; Miscellaneous Matters	
16	Provisions of Medicinal and	Medicinal and Toilet Preparations Act;	TB-Chap 5
	Toilet Preparations Act	Bonded and non-bonded laboratories; Excise Duty calculation	
17	Provisions of Drugs and Magic	Drugs and Magic Remedies Act;	TB-Chap 7
	Remedies Act	Objectionable advertisements	



18-23	Understanding the regulations, requirements, procedures and applications of new drug approval process (NDA)	Brochure preparation for IND &	R2 Ch.1-3, 5, 10, 11
24- 26	Over view of WTO. Understanding the requirements of patents, copyrights, designs and trademarks under TRIP's in relation to pharmaceutical industry and provisions of Indian Patent Act	Procedure for obtaining IPRs like patents, copyrights and trademarks with emphasis on pharmaceutical industry and products; Examples of patent applications; Implication of product	Lecture notes; R2 and R3
27- 28	Provisions of Consumer protection Act pertaining to Pharmacy & Medical profession; Ethics in Pharmacy & Medical profession	Pharmaceutical Ethics in dispensing,	Class notes R2

#### 4. Evaluation Scheme:

Component	Duratio n	Weighta ge	Date	Time	Nature of Componen t
Pre Mid-term surprise Quiz	3x5 min	15 %	Will be announce in class		СВ
Mid-term Test	90 min	35 %	7/3	11.00 -12.30 PM	СВ
Post Mid-term surprise Quiz	3x5 min	5 min 10% Will be announce in class		СВ	
Compre. Exam.	3 h	40 %	14/05	AN	CB (20%) OB (20%)

OB: open book; CB: closed book

**5. Mid-Semester Grading:** Will be announced after Mid-term test.

**6. Make-up:** Prior approval or intimation to take a make-up is mandatory. It is solely at the discretion of the instructor-in-charge, depending upon the genuineness of the circumstances, to allow or disallow a student to appear for a make-up evaluation component. No makeup will be granted for Assignments/Quizzes under any circumstances.

### 7. Grading Procedure:



- Grading will be done by "bunching" procedure. Total marks obtained by the students will be arranged in descending order, 'bunches' will be identified and grades awarded accordingly. Fine grading system (A, A-, B, B-....) will be followed.
- It is not mandatory for the instructor-in-charge to award all the grades (A to E); subjective judgment will be used for awarding the grades.
- As specified in Handout Part I, appended to the timetable, the instructor in-charge reserves
  the right to award a NC report in case the student does not make himself/ herself available for
  any of the evaluation component mentioned above.
- Borderline cases during grading will be judged on the basis of regularity to classes and consistency or progress in the performance in evaluation components.
- **8. Chamber Consultation Hours:** To be announced in class.
- **9. Notices**: All the notices pertaining to this course will be displayed only on Dept. of Pharmacy Notice Board.
- 10 Academic Honesty and Integrity Policy: 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 PHA F343

