

GUJARAT TECHNOLOGICAL UNIVERSITY

Pharm.D. 2nd year

Subject Name: Pharmacotherapeutics-I

Subject Code: 828806

Scope of the Subject: This course is designed to impart knowledge and skills necessary for contribution to quality use of medicines. Chapters dealt cover briefly pathophysiology and mostly therapeutics of various diseases. This will enable the student to understand the pathophysiology of common diseases and their management.

Objectives: Upon completion of the subject student shall be able to –

- the pathophysiology of selected disease states and the rationale for drug therapy;
- the therapeutic approach to management of these diseases;
- the controversies in drug therapy;
- the importance of preparation of individualised therapeutic plans based on diagnosis;
- needs to identify the patient-specific parameters relevant in initiating drug therapy, and monitoring therapy (including alternatives, time-course of clinical and laboratory indices of therapeutic response and adverse effects);

Theory (3 Hours/ Week, Total: 90 Hours)

Teaching Scheme (Hours)				Evaluation Scheme (Marks)				Total Marks
Theory	Tutorial	Practical	Total	Theory		Practical		
				External	Internal	External	Internal	
3	1	3	7	70	30	70	30	200

Sr. No.	Course Contents	Hours	Module Weightage
1	Cardiovascular system: Hypertension, Congestive cardiac failure, Angina Pectoris, Myocardial infarction, Hyperlipidaemias. Electrophysiology of heart and Arrhythmias.	28	31%
2	Respiratory system: Introduction to Pulmonary function test, Asthma, Chronic obstructive airways disease, Drug induced pulmonary diseases.	19	21%
3	Endocrine system: Diabetes, Thyroid diseases, Oral contraceptives, Hormone replacement therapy, Osteoporosis.	20	22%
4	General prescribing guidelines for a. Paediatric patients b. Geriatric patients c. Pregnancy and breast feeding	8	9%
5	Ophthalmology: Glaucoma, Conjunctivitis- viral & bacterial.	9	10%
6	Introduction to rational drug use Definition, Role of pharmacist Essential drug concept Rational drug formulations.	6	7%

Course Materials:

Text Books:

- Clinical Pharmacy and Therapeutics - Roger and Walker, Churchill Livingstone publication. Latest

Edition

- b. Pharmacotherapy: A Pathophysiologic approach - Joseph T. DiPiro et al. Appleton & Lange. Latest Edition

Reference Books:

- a. Pathologic basis of disease - Robins SL, W.B.Saunders publication. Latest Edition
- b. Pathology and therapeutics for Pharmacists: A Basis for Clinical Pharmacy Practice - Green and Harris, Chapman and Hall publication. Latest Edition
- c. Clinical Pharmacy and Therapeutics - Eric T. Herfindal, Williams and Wilkins Publication. Latest Edition
- d. Applied Therapeutics: The clinical Use of Drugs. Lloyd Young and Koda-Kimble MA Latest Edition
- e. Avery's Drug Treatment, Latest Edition, Adis International Limited.
- f. Relevant review articles from recent medical and pharmaceutical literature.

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Practical (3 Hours/ Week, Total: 90 Hours)

Practicals :

Hospital postings in various departments designed to complement the lectures by providing practical clinical discussion, attending ward rounds, follow up the progress and changes made in drug therapy in allotted patients, case presentation upon discharge.

Students are required to maintain a record of cases presented and the same should be submitted at the end of the course for evaluation.

A minimum of 20 cases should be presented and recorded covering most common diseases.

Assignments:

Students are required to submit written assignments on the topics given to them. Topics allotted should cover recent developments in drug therapy of various diseases. A minimum of THREE assignments [1500 – 2000 words] should be submitted for evaluation.

Format of the assignment:

1. Minimum & Maximum number of pages.
2. Reference(s) shall be included at the end.
3. Assignment can be a combined presentation at the end of the academic year.
4. It shall be computer draft copy.
5. Name and signature of the student.
6. Time allocated for presentation may be 8+2 Min.

Scheme of Practical Examination

	Internal/ Sessional	External
Synopsis	05	15
Major Experiment	10	25
Minor Experiment	03	15
Viva	02	15
Max. marks	20	70
Duration	3 hours	4 hours

Note: Total sessional marks is 30 (20 for practical sessional plus 10 marks for regularity, promptness, viva-voce and record maintenance)