

GUJARAT TECHNOLOGICAL UNIVERSITY

B.Pharm (Practice)

1st Year

Subject Name: Pathophysiology and Pharmacotherapeutics I

Subject Code: PP101TP

Scope: Practicing pharmacists will have opportunity to review the case notes or prescriptions in their practice setting and able to identify and resolve the drug related problems. This will ensure the improved patient care and decreases the unnecessary health care expenditure

Objectives: Upon completion of the course student shall be able to

1. Understand the anatomy and physiology of the respective system
2. Understand the disease process
3. Know the signs and symptoms of the disease.
4. Appreciate the various therapeutic regimens with their advantages and disadvantages

Course duration:

Learning: 40 hours of learning by blended mode of teaching. Blended teaching includes didactic and onsite learning.

Case Presentations: During the course each student should present **5 cases** covering the diseases prescribed in the syllabus.

Assignments: Each student should complete **two assignments** covering therapeutics and pharmacy practice concepts and will be evaluated at the time Final Examination

Sr No	Course Contents	Total Hrs
1	Introduction to pathophysiology and therapeutics – scope and objectives	1
2	Prescribing guidelines (Drug and dosage selection and dose calculation) for a) Pediatrics b) Geriatrics c) Pregnant and breast feeding women d) Renally and hepatically challenged patients	4
3	Elements of anatomy, etiopathogenesis, diagnostic techniques, clinical manifestations and pharmacotherapeutics of diseases associated with Cardiovascular System (a) Hypertension (b) Ischemic Heart diseases (Angina and Myocardial Infarction) (c) Hyperlipidemia (d) Congestive Heart Failure (e) Arrhythmias	15
4	Elements of anatomy, Etiopathogenesis, diagnostic techniques, clinical manifestations and pharmacotherapeutics of diseases associated with Respiratory System (a) Asthma (b) COPD (c) Drug induced pulmonary diseases	12
5	Elements of anatomy Etiopathogenesis, diagnostic techniques, clinical manifestations and pharmacotherapeutics of diseases associated with Endocrine System (a) Diabetes. (b) Thyroid diseases	8

