

# GUJARAT TECHNOLOGICAL UNIVERSITY

B.Pharm (Practice)

2<sup>nd</sup> Year

**Subject Name: Pathophysiology and Pharmacotherapeutics III**

**Subject Code: PP201TP**

**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	<b>Infectious diseases:</b> (a) Guidelines for the rational use of antibiotics and surgical Prophylaxis (b) Pathophysiology and Pharmacotherapeutics of Tuberculosis, Meningitis, Respiratory tract infections, Gastroenteritis, Endocarditis, Septicemia, Urinary tract infections, Protozoal infection-Malaria, HIV & Opportunistic infections, Fungal infections, Viral infections, Gonorrhoea and Syphilis	25
2	<b>Musculoskeletal disorders:</b> a) Basics of Anatomy and physiology of musculoskeletal system b) Pathophysiology and Pharmacotherapeutics of Rheumatoid arthritis, Osteoarthritis, Gout, Spondylitis, Systemic Lupus Erythematosus	8
3	<b>Renal system</b> a) Basics of anatomy and physiology of Renal system b) Pathophysiology and pharmacotherapeutics of Acute Renal Failure, Chronic Renal Failure, Renal Dialysis, Drug induced renal disorders	7