

GUJARAT TECHNOLOGICAL UNIVERSITY

B.Pharm (Practice)

2nd Year

Subject Name: Pharmacy Practice III

Subject Code: PP203TP

Scope: Practicing pharmacists have opportunity to provide various patient care services to improve the patient's health in community settings through counselling, health screening services, and other education programs. In hospital settings, pharmacists can ensure appropriate dispensing, education to patient, and provide all hospital pharmacy services including clinical pharmacy services such as drug information and ADR reporting

Objectives: Upon completion of this course the student should be able to:

1. Understand the professional roles of pharmacists in community, hospital and clinical pharmacy areas.
2. Understand the professional responsibilities of the pharmacists.
3. Provide the intended services

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	Health Accessories - Study and handling of various common health accessories handled in hospital and community pharmacy. Student should have working knowledge, uses and cautions in using these. (Wheel Chairs, Canes, Crutches, and other orthopedic aids, Bed Pans, Vaporizers, Syringes and Needles, Hot water (a) Bottles, Clinical Thermometers, Trusses, First Aid Supplies, Family Medicine Cabinet, etc.	5
2	Medical gases – different gases and their use, coding and care of cylinders, delivery of gases to various parts of hospital, domiciliary oxygen services, and role of pharmacist	3
3	I.V admixture services and role of Pharmacist	3
4	Total Parenteral Nutrition – Definition, composition and clinical use of TPN	2
5	Clinical Reseach - 12 hrs Introduction to Clinical trials Various phases of clinical trial. Methods of post marketing surveillance Abbreviated New Drug Application submission Good Clinical Practice – ICH, GCP, - Central drug standard control organisation (CDSCO) guidelines, Schedule Y -Composition, responsibilities, procedures of IRB / IEC Role and responsibilities of clinical trial personnel as per ICH GC	12

	a. Sponsor b. Investigators c. Clinical research associate d. Auditors e. Contract research coordinators f. Regulatory authority Designing of clinical study documents (protocol, CRF, ICF, PIC with assignment) Informed consent Process	
6	Introduction to Biostatistics	3
7	Research in pharmacy practice areas Continuing education for pharmacists	1
8	Compounding of Pharmaceuticals in the hospital/community pharmacy. Weights and measures, calculations involving percentage solutions, allegation, proof spirit, Isotonic solutions. Bulk compounding in hospitals, pre-packaging.	3
9	Manufacturing of Pharmaceutical Formulations in hospital – various aspects, current status	3
10	Applications of IT and computers in pharmacy practice	2
11	Provision of cytotoxic chemotherapy, and various considerations/handling. Handling of cytotoxic waste and disposal. Pharmaceutical (Medicines and allied products) waste management in hospitals, community pharmacy, and the community and the role of the pharmacist	3
12	Medical Devices & I.V. pumps and Individualized medicines, Gene therapy, Genomics & proteomics, Biochips, biosensors and MEMS micro electro mechanical systems	2