



Syllabus for the Ph.D. Entrance Examination

Name Of the Institute	:	Institute of Pharmacy
Name of Department/Specialization	:	Pharmacology
Academic Year	:	2025-2026
<ol style="list-style-type: none">1. Basic and General Pharmacology, Pharmacodynamics, Pharmacokinetics, Pharmacogenetics, Discovery and development of new drugs-Preclinical and clinical studies. Pharmacology of peripheral nervous system, cardiovascular system, urinary system, respiratory system, central nervous system, Endocrine system, gastrointestinal tract, Autacoids and their Antagonists, Immuno-pharmacology, Chemotherapy of malignant diseases and principles of toxicology.2. Development and Scope of Clinical Pharmacy Practice, Role of Clinical Pharmacist, Patient Data Analysis, Drug and Poison information, Rational use of drugs, Medication error and medication adherence, Pharmacoepidemiology.3. Etiopathogenesis, pharmacology of drugs used and pharmacotherapy of following diseases: Cardiovascular disorders, Respiratory disorders, Haematological disorders, Arthritic disorders, Gout and Hyperuricemia, Gastrointestinal disorders, Pain Management, Immune disorders, Disease of ageing, Renal disorders, Endocrine disorders, Psychiatric and Neurologic Disorders, drug addiction, Infectious Diseases, Sexually Transmitted Diseases, Oncologic diseases, Ophthalmologic disorders, Skin diseases.4. Clinical Pharmacokinetics, Drug Interactions, Pharmacoeconomics, Research design and conduct of clinical trials, Pharmacovigilance, ADRs, Pre-clinical and Clinical Toxicology, Hospital Pharmacy, Regulatory guidelines for hospital pharmacy of different countries, Medical writing.		
Date: 01/02/2025		
 Dr. Snehal Patel Signature of Area coordinator		 Dr. Gopal Natesan Signature of HoI