

**NIRMA UNIVERSITY
INSTITUTE OF PHARMACY**

Syllabus for PhD. Entrance Examination 2021-22

(Pharmacology)

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

Definitions, Development and Scope of Clinical Pharmacy Practice, Introduction to daily activities of a Clinical Pharmacist, Patient Data Analysis, Drug and Poison information, Rational use of drugs, Medication error and medication adherence, Pharmcoepidemiology

Etiopathogenesis, pharmacology of drugs used and pharmacotherapy of following diseases: Cardiovascular disorders, Respiratory disorders, Hematological 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

Radiopharmaceuticals, biotech products and vaccines and total parenteral nutrition, 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 and critical evaluation of literature