

# Pharmacist Syllabus

## D.Pharma Syllabus

### 1<sup>st</sup> year

#### Pharmaceutics I

- Introduction to different dosage forms
- Metrology
- Packaging of pharmaceuticals
- Size separation by sifting
- Clarification and Filtration

#### Pharmaceutical chemistry I

- Acids, Bases, and Buffers
- Antioxidants
- Gastrointestinal agents
- Topical Agents
- Dental Products

#### Pharmacognosy

- Definition, history, and scope of Pharmacognosy
- Pharmaceutical aids
- Various systems of classification of drugs and natural origin
- Adulteration and drug evaluation

#### Biochemistry clinical pathology

- Introduction to Biochemistry
- Carbohydrates
- Lipids
- Vitamins
- Enzymes
- Therapeutics

## **Human anatomy physiology**

- Scope of Anatomy and Physiology
- Elementary Tissues
- Skeletal Systems
- Cardiovascular Systems
- Respiratory Systems
- Muscular Systems

## **Health education community pharmacy**

- Concept of Health
- Nutrition and Health
- First aid
- Environment and Health
- Fundamental Principles of Microbiology
- Communicable Diseases

## **2<sup>nd</sup> year**

### **Pharmaceutics II**

- Reading and understanding prescriptions
- Study of various types of incompatibilities
- Posology
- Dispensed Medications
- Types of Powders
- Lipids and Dosage forms

### **Pharmaceutical chemistry II**

- Introduction of nomenclature of organic chemical systems
- Antiseptics and disinfectants
- Antileprotic Drugs
- Antibiotics
- Hypnotics

## **Pharmacology and Toxicology**

- Introduction to pharmacology
- Scope of pharmacology
- Drugs: their advantages and disadvantages
- General mechanism of drug action
- Drugs acting on the central nervous system

## **Pharmaceutical jurisprudence**

- Origin and nature of pharmaceutical legislation in India
- Principles and significance of professional ethics
- Pharmacy Act, 1948
- The Drugs and Cosmetics Act, 1940
- The Drugs and Magic Remedies Act, 1954

## **Drug store business management**

- Introduction
- Drug house management
- Sales
- Recruitment, Training
- Banking and Finance
- Introduction to accounting

## **Hospital clinical pharmacy**

- Definition, function, and classification of Hospitals
- Hospital pharmacy
- The drug distribution system in the hospital
- Manufacturing
- Drug Information Service
- Introduction to Clinical Pharmacy
- Modern dispensing aspects

# **B.Pharma Syllabus**

## 1<sup>st</sup> Semester

- Pharmaceutical Analysis I
- Remedial Mathematical Biology
- Pharmacognosy I
- Pharmaceutical Chemistry I (Inorganic Pharmaceutical Chemistry)
- Basic Electronics & Computer Applications

## 2<sup>nd</sup> Semester

- Pharmaceutics I (Physical Pharmacy)
- Advanced Mathematics.
- Pharmaceutical Chemistry II (Physical Chemistry)
- Pharmaceutical Chemistry III (Organic Chemistry I)
- Anatomy, Physiology & Health Education (APHE) I

## 3<sup>rd</sup> Semester

- Pharmaceutics II (Unit Operations I, including Engg. Drawing)
- Pharmaceutical Chemistry IV (Organic Chemistry II)
- Pharmacognosy II
- Pharmaceutical Analysis II
- AP HE-II

## 4<sup>th</sup> Semester

- Pharmaceutics – III (Unit Operations II)
- Pharmaceutical Microbiology
- Pharmacognosy III
- Pathophysiology of Common Diseases
- Pharmaceutics IV (Dispensing & Community Pharmacy)

## 5<sup>th</sup> Semester

- Pharmaceutical Chemistry – V (Biochemistry)'
- Pharmaceutics V (Pharmaceutical Technology I)
- Pharmacology I
- Pharmacognosy
- Pharmaceutics VI (Hospital Pharmacy)

## 6<sup>th</sup> Semester

- Pharmaceutical Chemistry (Medicinal Chemistry I)
- Pharmaceutical Jurisprudence & Ethics
- Pharmaceutics VII (Biopharmaceutics & Pharmacokinetics)

- Pharmacology II
- Pharmaceutics VII (Biopharmaceutics & Pharmacokinetics)
- Pharmacology II
- Pharmacognosy V (Chemistry of Natural Products)

### **7<sup>th</sup> Semester**

- Pharmaceutical Biotechnology
- Pharmaceutics VIII (Pharmaceutical Technology II)
- Pharmaceutical Industrial Management
- Pharmacology III
- Pharmaceutical Chemistry VII (Medicinal Chemistry II)
- Elective (Theory)

### **8<sup>th</sup> Semester**

- Pharmaceutics IX
- Pharmaceutical Analysis III
- Pharmaceutical Chemistry VIII (Medicinal Chemistry III)
- Pharmacognosy VI
- Pharmacology IV (Clinical Pharmacy & Drug Interactions)
- Project related to Elective

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