

# Course Outcomes

## Pharmacology Theory

Upon successful completion of this course, the students will be able to

| CO No. | Course Outcome  |
|--------|---|
| 21T1   | Describe the basic concepts of pharmacokinetics and pharmacodynamics                      |
| 21T2   | Enlist the various classes and drugs of choices for any given disease condition           |
| 21T3   | Advise the dosage regimen, route of administration and contraindications for a given drug |
| 21T4   | Describe the common adverse drug reactions  |

## Pharmacology Practical

Upon successful completion of this course, the students will be able to

| CO No. | Course Outcome  |
|--------|---|
| D56P1  | Study and report the local anaesthetic, mydriatic and mitotic effects of the given drug on the rabbit eye                                     |
| D56P2  | Choose appropriate animal experiment model to study the effects of the given drugs acting on the central nervous system and submit the report |
| D56P3  | Perform the effects of given tissues (simulated) on isolated organs / tissues and interpret the results                                       |
| D56P4  | Interpret the dose dependent responses of drugs in various animal experiment models   |

## Community Pharmacy and Management Theory

Upon successful completion of this course, the students will be able to

|       |   |
|-------|---|
| D22T1 | Establishing and running a community pharmacy and its legal requirements        |
| D22T2 | Professional aspects of handling and filling prescriptions                      |
| D22T3 | Patient counselling on diseases, prescription and or non-prescription medicines |
| D22T4 | Scope for performing basic health screening in community pharmacy settings      |

## Community Pharmacy and Management Practical

Upon successful completion of this course, the students will be able to

|              |  |
|--------------|--|
| <b>D57P1</b> | Handle and fill prescriptions in a professional manner   |
| <b>D57P2</b> | Counsel patients on various diseases and minor ailments  |
| <b>D57P3</b> | Counsel patients on prescription and or non-prescription medicines and Design and prepare patient information leaflets |
| <b>D57P4</b> | Perform basic health screening tests   |

## Biochemistry and Clinical Pathology Theory

Upon successful completion of this course, the students will be able to

| <b>CO No.</b> | <b>Course Outcome</b>   |
|---------------|---|
| <b>D56P1</b>  | Study and report the local anaesthetic, mydriatic and mitotic effects of the given drug on the rabbit eye                                     |
| <b>D56P2</b>  | Choose appropriate animal experiment model to study the effects of the given drugs acting on the central nervous system and submit the report |
| <b>D56P3</b>  | Perform the effects of given tissues (simulated) on isolated organs / tissues and interpret the results                                       |
| <b>D56P4</b>  | Interpret the dose dependent responses of drugs in various animal experiment models   |

## Biochemistry and Clinical Pathology Practical

Upon successful completion of this course, the students will be able to

| <b>CO No.</b> | <b>Course Outcome</b>  |
|---------------|--|
| <b>D58P1</b>  | Estimate normal and abnormal constituents in blood samples and interpret the results.        |
| <b>D58P2</b>  | Estimate the normal and abnormal constituents in urine samples and interpret the results     |
| <b>D58P3</b>  | Carry out qualitative analysis of biomolecules / metabolites in the given biological samples |
| <b>D58P4</b>  | Perform hydrolysis of starch by acid and salivary amylase.                                   |

### Pharmacotherapeutics Theory

Upon successful completion of this course, the students will be able to

|              |   |
|--------------|---|
| <b>D24T1</b> | Help assessing the subjective and objective parameters of patients in common disease conditions.        |
| <b>D24T2</b> | Assist the healthcare providers to analyse drug related problems and provide therapeutic interventions. |
| <b>D24T3</b> | Participate in planning the rational medicine therapy to common diseases.                               |
| <b>D24T4</b> | Design and deliver discharge counselling for patients.  |

### Pharmacotherapeutics Practical

Upon successful completion of this course, the students will be able to

|              |  |
|--------------|--|
| <b>D59P1</b> | Write SOAP (Subjective, Objective, Assessment and Plan) notes for the given clinical cases of selected common diseases |
| <b>D59P2</b> | Counsel the patients about the disease conditions, uses of drugs   |
| <b>D59P3</b> | Counsel the patients about method of handling and administration of drugs  |
| <b>D59P4</b> | Counsel the patients about lifestyle modifications and monitoring parameters   |

### Hospital and Clinical Pharmacy Theory

Upon successful completion of this course, the students will be able to

|              |   |
|--------------|---|
| <b>D25T1</b> | Hospital and Hospital Pharmacy organization and set-ups   |
| <b>D25T2</b> | Basics of hospital pharmacy services including the procurement, supply chain, storage of medicines and medical supplies |
| <b>D25T3</b> | Basics of clinical pharmacy including introduction to comprehensive pharmaceutical care services                        |
| <b>D25T4</b> | Basic interpretations of common laboratory results used in clinical diagnosis towards optimizing the drug therapy       |

### **Hospital and Clinical Pharmacy Practical**

Upon successful completion of this course, the students will be able to

|              |   |
|--------------|---|
| <b>D60P1</b> | Professionally handle and answer the drug information queries   |
| <b>D60P2</b> | Interpret the common laboratory reports   |
| <b>D60P3</b> | Understand the uses and methods of handling various medical/surgical aids and devices   |
| <b>D60P4</b> | Interpret and reports suspected adverse drug reaction using standards procedures in common diseases for optimizing drug therapy |

### **Pharmacy Law and Ethics Theory**

Upon successful completion of this course, the students will be able to

|              |   |
|--------------|---|
| <b>D26T1</b> | General perspectives, history, evolution of pharmacy law in India             |
| <b>D26T2</b> | Act and Rules regulating the profession and practice of pharmacy in India     |
| <b>D26T3</b> | Important code of ethical guidelines pertaining to various practice standards |
| <b>D26T4</b> | Brief introduction to the patent laws and their applications in pharmacy      |