

## PHARMACOLOGY DEPARTMENT

### 1. Facilities for teaching and training

**Well-developed training programmes structured as per National standards**

- Well trained and experienced faculties
- Teaching being done for D.Pharm, B.Pharm, Pharm D and M.Pharm Pharmacology
- Audiovisual Teaching Aids- LCD projector, Overhead projector
- Periodic evaluation of students is done by weekly tests and sessional exams

### 2. Infrastructure with modern facilities:

- A museum depicting History of Pharmacology, sources of drugs, Routes of administration of drugs, basic mechanism of drug action, and adverse effects
- Excellent Library , Online journals (national and international) and offline Pharmacology journals
- Software's for Computer Aided Learning , Simulation Experiments- ExPharm
- Internet facilities, e-books and e- journals
- Well established CPCSEA approved animal house and the department have Fully fledged three labs ( One Human anatomy and physiology lab and other two Pharmacology labs) with sophisticated equipments
- The lab consist of advanced as well as conventional equipments:
  - ⇒ Actophotometer
  - ⇒ Analgesiometer,( Eddy's hot plate, Radiant heattail flick apparatus)
  - ⇒ Electroconvulsiometer
  - ⇒ Cook's pole climbing apparatus
  - ⇒ Plethysmometer
  - ⇒ Tail suspension test apparatus
  - ⇒ Fluorescent microscope
  - ⇒ Semi auto analyser
  - ⇒ Gel electrophoresis
  - ⇒ Physiograph
  - ⇒ Legendraff

- ⇒ Spirometer
- ⇒ All type maze system with video tracking facilities
  - Elevated plus maze(rat/mice)
  - Radial arm maze(rat/mice)
  - T maze(rat/mice)
  - Zero maze (rat/Mice)
  - Light and dark box
  - Water maze (rat/Mice) apparatus
  - Novel object recognition apparatus
  - Open field apparatus
  - Y maze(rat/mice)
  - Barnes maze (rat/Mice)
- Insilico studies:
  - Docking studies
  - Chems sketch
  - PASS prediction
  - ADMET
  - Molecular docking studies
  - Net work Pharmacology

### 3. Animal House:

- The college has a CPCSEA approved well established animal house as per standard guidelines
- Animal experiments approved from the Institutional Animal ethics Committee(IAEC)
- Experiments on mice, rats and rabbits routinely carried out with prior

### 4. Research

The Department of Pharmacology has excellent facilities for research. Faculty, research scholars and postgraduate students are actively involved in research. A number of projects have received funding from AICTE(Mordrobb project).

Research areas:

- Neuropharmacology
- Endocrinology
- Anti- inflammatory studies
- Anti-histaminic study
- Toxicity studies
- In vitro studies
- Ulcer protective study

- Herbal extraction and validation
  - Insilico studies
5. Academic activities include Lectures, Practicals, Project works, Tutorials, Seminars and webinars