

### Infrastructure/facilities & Expertise: Academic-Industry research project collaboration.

| Sr. NO. | Name of Laboratory   | Major Equipments  | Experimental Setup  |
|---------|--|---|---|
| 1.      | Pharmacognosy Lab-I<br>(1 <sup>st</sup> year B. Pharm. students) | Pharmacognosy:<br><br>Simple microscope, Compound microscope, Digieye 330/210 (high resolution digital camera) and Bi-ocular, Mono-ocular microscope. | Pharmacognosy:<br><br>Major experiment: Histological study of plants specimen<br><br>Minor experiment: Macroscopic, microscopic and chemical evaluation of crude drugs.   |
| 2.      | Pharmacognosy Lab-II<br>(B. Pharm. students)                     | Pharmacognosy:<br><br>Soxhlet extractor, Clevenger apparatus, hot air oven, incubator, electric water bath, dessicator, hot plate and centrifuge.     | Pharmacognosy: (Phytochemistry)<br><br>Major experiment: Extraction, isolation of phytoconstituents and standardization of herbal drugs.<br><br>Minor experiment: Phytochemical screening and development of Ayurvedic formulation. |
| 3.      | Botanical garden   | More than 150 medicinal plant species are cultivated.   | Availability of medicinal plant for U.G and P.G. students for various Phytochemical and pharmacological screening.  |

#### Research projects/Expertise:

1. Pharmacognostic study of various parts of medicinal plants.
2. Extraction and isolation of secondary metabolites.
3. Standardization of herbal drugs and their formulation.
4. Development of new Herbal and Ayurvedic formulation.
5. Pharmacological screening of various extracts and phytoconstituents. (In collaboration with Pharmacology Department)

#### For example, screening of extracts and phytoconstituents in:

Anticonvulsant  
Anti-inflammatory  
Antioxidant  
Antidiabetic  
Antiulcer  
Abortifacient  
Antimicrobial  
Antibacterial  
Hepatoprotective  
Diuretic