

SHRI RAMCHANDRA VAIDYA AYURVEDIC MEDICAL COLLEGE AND HOSPITAL

Yamuna Vihar, Malhore Road, (Near ELDECO Tiraha) Chihat, Lucknow-226028

DEPARTMENT OF DRAVYAGUNA (PHARMACOGNOSY) LABORATORY

1. Introduction and overview of the laboratory

The Department of Dravyaguna Vigyan is an essential branch of Ayurvedic education that focuses on the study of medicinal plants, herbal drugs, their identification, properties, therapeutic uses, and pharmacological actions according to Ayurvedic principles. The department plays an important role in providing students with practical and scientific knowledge related to medicinal plant sciences and pharmacognosy.

The Pharmacognosy Laboratory has been established to provide practical training and research exposure to undergraduate students and faculty members. The laboratory enables students to understand various aspects of medicinal plants, including identification, authentication, preservation, microscopic evaluation, and standardization of crude drugs. Teaching and practical demonstrations are carried out using medicinal plant specimens, herbarium sheets, microscopes, charts, and various laboratory instruments. The laboratory also supports academic and research activities related to medicinal plant studies, herbal drug evaluation, phytochemical investigations, and interdisciplinary research in Ayurveda.

2. Infrastructure and facilities available

The Pharmacognosy Laboratory is well-equipped with the infrastructure and facilities necessary for academic teaching, practical training, and research-related activities.

Infrastructure Facilities:

- Spacious and properly ventilated laboratory area
- Separate teaching and demonstration space
- Museum section containing medicinal crude drug samples
- Medicinal plant identification facilities
- Departmental library with academic reference books and journals
- Faculty cabins and departmental office
- Computer and internet access
- Storage facilities for drugs, chemicals, and instruments
- Adequate water supply, lighting, and sanitation facilities
- Herbal Garden Support Facilities
- Access to the institutional herbal garden for educational activities
- Live medicinal plant study and identification facilities
- Botanical labelling and plant classification system
- Demonstration area for practical teaching of medicinal plants

3. Instruments and equipment available in the laboratory

The laboratory contains various instruments, apparatus, and teaching materials required for pharmacognosy practicals and research work.

- Laboratory Instruments
- Simple microscopes
- Dissecting microscopes

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- Weighing machine
- Heating plate
- Glass slides and cover slips
- Laboratory glassware and reagent bottles
- Petri dishes and watch glasses
- Staining jars and trays
- Teaching Aids and Museum Materials
- Crude drug specimens
- Medicinal plant charts
- Pharmacognosy charts and diagrams
- Morphological models of medicinal plants
- Samples of roots, bark, leaves, fruits, and seeds
- Greenboard for teaching aids

Research Facilities

- Reference books and scientific journals
- Computer with internet facility
- Drug documentation and authentication facilities
- Seminar and presentation arrangements
- Preservation and storage facilities for medicinal samples

4. Practical and research facilities for undergraduate students and faculty members

The laboratory offers several practical and research-oriented facilities that help students and faculty members gain hands-on experience and academic exposure.

Practical Facilities for Undergraduate Students

- Identification of medicinal plants and crude drugs
- Organoleptic study of herbal drugs
- Microscopic and powder analysis of medicinal drugs
- Herbarium preparation techniques
- Pharmacognostical evaluation of medicinal plants
- Demonstration of collection and preservation methods of crude drugs
- Study of medicinal plant morphology and taxonomy
- Practical learning through herbal garden visits
- Observation and preparation of powdered drug samples

Research Facilities for Faculty Members and Students

- Pharmacognostical and herbal drug research studies
- Authentication and standardization of medicinal plants
- Phytochemical and analytical studies of herbal drugs
- Preparation of educational charts and herbarium specimens

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- Guidance for student projects and research work
- Participation in interdisciplinary research activities

Academic Activities Conducted in the Laboratory

- Routine practical classes and demonstrations
- Medicinal plant identification sessions
- Tutorials and viva voce examinations
- Herbal garden demonstrations and field visits

5. Photographs



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