

AUTONOMOUS INSTITUTION

SCHOOL OF PHARMACY

REPORT ON

FIELD VISIT

As part of the Pharmacy Practice School subject, 96 Final Year B. Pharm students from NNRG SOP visited the Telangana State Forest Academy. The purpose of the visit was to enhance the students' knowledge of medicinal plants, their cultivation, collection, and various uses. This visit aimed to bridge theoretical knowledge with practical exposure to real-world applications in pharmacognosy and phytochemistry.

Objective:

The primary objective of the visit was to:

- Understand the role of medicinal plants in pharmaceutical formulations.
- Learn methods of cultivation, collection, and sustainable harvesting of medicinal plants.
- Study the pharmacological and therapeutic uses of various medicinal plants in traditional and modern medicine.

Overview of the Visit:

1. Welcome and Introduction: Upon arrival, the students were welcomed by the Dr. Dharma Chandra, faculty and staff of the Telangana State Forest Academy. The Academy's Director gave an insightful introduction to the vast biodiversity of medicinal plants found in Telangana and their significance in health care systems, especially in Ayurveda, Unani, and modern medicine.
2. Medicinal Plant Nursery Tour: Students were taken on a guided tour of the medicinal plant nursery. The tour focused on:
 - Cultivation Techniques: The Academy's staff explained various methods used to cultivate medicinal plants, including soil selection, irrigation methods, organic farming practices, and sustainable farming techniques. Special emphasis was placed on maintaining soil fertility and biodiversity conservation.
 - Collection and Harvesting: Students were shown how different parts of plants—roots, leaves, bark, and flowers—are collected, highlighting the correct stages of maturity for optimal medicinal potency. The faculty explained the importance of timing and technique in the harvesting process to maintain the efficacy of plant-derived medicines.
3. Identification of Key Medicinal Plants: The students were introduced to several medicinal plant species, including:

- Ashwagandha (*Withania somnifera*): Renowned for its adaptogenic properties, Ashwagandha is widely used in stress management and improving vitality.
 - Neem (*Azadirachta indica*): Known for its antibacterial and antifungal properties, used in skin and dental care.
 - Tulsi (*Ocimum sanctum*): Often used in respiratory diseases and boosting immunity.
 - Turmeric (*Curcuma longa*): Famous for its anti-inflammatory properties, commonly used in wound healing and digestive health. The students learned to identify these plants by their leaves, flowers, and specific growth patterns.
4. **Demonstration of Medicinal Plant Uses:** The Academy's experts provided practical demonstrations on how different parts of medicinal plants are processed and utilized in herbal formulations, including oils, extracts, tinctures, and powders. The process of drying, grinding, and preparing extracts was elaborately demonstrated, giving students a firsthand experience of the production side of herbal medicines.
 5. **Conservation and Sustainable Use of Medicinal Plants:** The visit emphasized the importance of conservation efforts to prevent the over-harvesting of medicinal plants. The students were made aware of the challenges in balancing demand for medicinal plants with the need for environmental sustainability. The Academy encouraged the students to explore methods like community-based plant cultivation and ethical sourcing in their future careers.

Conclusion:

The visit to the Telangana State Forest Academy provided the students with invaluable insights into the world of medicinal plants, their cultivation, and their role in pharmaceutical sciences. It was a practical complement to their classroom learning, offering them an understanding of the significance of traditional knowledge in modern drug development. The students left with a heightened appreciation for the integration of natural resources in pharmacy practice and the responsibility of preserving medicinal plant biodiversity.

This educational trip has enhanced the students' practical knowledge and underscored the importance of medicinal plants in the field of Pharmacy. The exposure to real-world plant cultivation and collection techniques will undoubtedly contribute to their professional growth in the pharmaceutical sector.



Hyderabad, TG, India
 Dullapally, Hyderabad, 500100, TG, India
 Lat 17.545251, Long 78.455319
 09/23/2024 12:42 PM GMT+05:30
 Note : Captured by GPS Map Camera


NALLA NARASIMHA REDDY
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SCHOOL OF PHARMACY





field trip





Venue:
TS Forest Academy, Dulapally.

Date & Time:
23.09.2024
 10.00AM TO 2.00PM



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Hyderabad, TG, India
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