



**Report**

**on**

**"Exploring Nature's richness & medicinal plant potential to broaden  
understanding of**

**Pharmacognosy & sustainable healthcare practices"**

**Date :** (Wednesday) 28th February, 2024

**Venue:** Tau Devi Lal Biodiversity Park , 56 sector, Gurugram, Haryana

**Event Type:** Field Visit

**Mode of Activity:** Offline

**Target Group:** D. Pharm 1st Year Students

**Coordinators:** Dr. Saroj Yadav,

**Organized by:** School of Medical and Allied Sciences, K.R. Mangalam University

**Number of Participants :** 45

**Introduction:**

A field visit to a botanical garden offers a unique opportunity to explore and learn about the rich diversity of plant life. Botanical gardens are curated environments that house a vast assortment of plant species from different regions and ecosystems across the world. This field visit allows students to observe and interact with plants in their natural or artificially created habitats. Field visit to a botanical garden is a valuable and enriching experience that allows Students to explore the vast array of plant life, learn about their characteristics, and gain insight into the ongoing conservation efforts undertaken by the institutions.

**Objectives:**

- **Education and Learning :** To study about the biological source ,morphological character, active chemical constituents and uses of the medicinal plants.
- **Observation and documentation :** Field visits provide an opportunity for participants to observe and document various plant species. This may involve noting down important features, taking photographs, or collecting samples



- **Conservation awareness :** A field visit can help participants understand the importance of conserving plant species and the challenges faced in achieving this goal. It can also raise awareness about the need for sustainable practices and responsible behavior to protect our natural environment.
- **Skill Development:** Field visits can also provide an opportunity for participants to develop practical skills related to plant identification, data collection, or research techniques. They can learn about botanical terminology, classification methods, and the use of scientific tools used in plant studies.

### **Methodology:**

- The field visit to a Botanical Garden gathers information about existing botanical gardens, their features, design elements, and visitor experiences. Study different types of botanical gardens, their purposes, and the plants they cultivate.
- Site selection: Identify a suitable location for the botanical garden considering factors like climate, soil conditions, accessibility, and availability of resources. Conduct a feasibility study to determine the viability of establishing a botanical garden in the selected area.
- Educational programs: Develop a range of educational programs offering workshops, guided tours, and lectures on plant species, gardening techniques, and environmental conservation.

Students were enthralled by the vast array of medicinal plants, importance of the herbal plants in traditional medicines. Students observed various section like Palm Section, Economic section, Curoosity section, Religious section, Shurb section and Arboretum section of the biodiversity park through which students gained the knowledge of various herbs, trees and plants species. For the students it was very transformative experience, covering the curriculum and understanding pharmacognosy of plant species and their potential for medicinal purposes.

### **Outcome**

- Preservation and conservation: The botanical garden will serve as a repository for an extensive range of plant species, including endangered and rare plants. It will contribute to their preservation and conservation,



- protecting them from extinction.
- Education and research: The botanical garden will provide an educational platform for visitors, students, and researchers to learn about plant diversity, ecosystems, and environmental conservation. It will foster scientific research and experimentation related to plants and horticulture.
- Environmental impact: The botanical garden's sustainable practices, such as water conservation, organic gardening, and ecological restoration, will contribute positively to the environment. It will serve as an example of eco-friendly landscaping and encourage visitors to adopt similar practices.
- The expected outcome of a botanical garden is the preservation and promotion of plant diversity, environmental education, and the creation of a sustainable and welcoming space for visitors, researchers, and the local community.

### **Conclusion**

Students got the knowledge about the medicinal plants and understood the Pharmacognosy of the plant morphology, chemical entities and pharmacological action of the plant drugs



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Figure 2: Students Exploring the Bamboo Section at The Biodiversity Park



Figure 3: Students exploring the plants in medicinal uses



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