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DEPARTMENT OF BOTANY

EXTENTION LECTURE

Date of Webinar: 06-01-2021
Venue: TTWRDC Dhammapeta
Resource Person: Dr. V.V. Ramana lecture in botany singareni colleres women's degree college
Organized by: Department of Botany

Topic : Identification of plant in the field in specil refferenceof flora

Introduction:

A webinar on "Identification of Plants in the Field with Special Reference to Flora" was successfully conducted by the Department of Botany at the TTWRDC (Telangana Tribal Welfare Residential Degree College) Dhammapeta. The session was aimed at providing participants with essential skills and methodologies for identifying plants in the field, with a special focus on the local flora. The resource person, Dr. V.V. Ramana, a distinguished botanist, guided the attendees through various techniques and strategies used for plant identification in natural habitats.

Objective of the Webinar:

The primary objective of the webinar was to:

- Educate students, faculty, and field researchers about the practical aspects of plant identification in their natural environment.
- Highlight the importance of recognizing and cataloging local flora for conservation and research purposes.
- Provide insights into specific characteristics of plant species found in the region, with emphasis on the flora of the Dhammapeta area.

Keynote Speaker:

Dr. V.V. Ramana, a renowned botanist with expertise in plant taxonomy and ecology, was the chief speaker for the webinar. He has conducted extensive research on plant species in various regions of India, and his work is highly regarded in the fields of floristic survey and environmental conservation.

Topics Covered:

Dr. Ramana's presentation was divided into several key segments:

1. **Introduction to Plant Identification**
    - The basics of plant taxonomy and classification.
    - Understanding plant morphology: leaves, stems, flowers, fruits, and seeds.
    - The role of botanical keys and field guides in the identification process.
2. **Field Techniques for Plant Identification**
    - Methods for observing and recording plant characteristics in the field.
    - The importance of habitat and environmental context in plant identification.
    - Use of photographs, plant presses, and herbarium collections.
3. **Flora of Dhammapeta Region**
    - Specific plant species found in the Dhammapeta area, with a focus on medicinal and economically significant plants.
    - Ecological significance of the local flora in sustaining biodiversity.
4. **Practical Application and Case Studies**
    - Dr. Ramana shared real-life examples and case studies of plant identification in the field.
    - How to approach difficult or unfamiliar plant species using available resources like mobile apps, databases, and expert consultations.
5. **Conservation and Sustainable Use of Flora**
    - The importance of preserving local plant species for biodiversity conservation.
    - Sustainable harvesting practices and their role in ensuring the availability of plant resources for future generations.

Audience and Participation:

The webinar was attended by over [insert number] participants, including undergraduate and postgraduate students, researchers, and faculty members from the Botany Department. The session was highly interactive, with participants actively engaging with Dr. Ramana during the Q&A segment. Many attendees expressed interest in learning more about local flora and its conservation.

Feedback and Outcomes:

The feedback from the participants was overwhelmingly positive. Many attendees appreciated the practical approach to plant identification, especially the focus on fieldwork and the importance of observing plants in their natural environment. The resource person’s deep

knowledge of local flora and his ability to explain complex concepts in an accessible manner was highly praised.

Some key outcomes of the webinar include:

- Enhanced awareness among students about the value of field-based plant identification.
- Increased interest in plant conservation efforts in the local region.
- A deeper understanding of the interrelationship between plant species and their ecosystems.

Conclusion:

The webinar on "Identification of Plants in the Field with Special Reference to Flora" was a resounding success, offering valuable knowledge and practical insights into plant identification. Dr. V.V. Ramana's expertise and engaging presentation made the session both informative and enriching for all participants. The webinar not only helped in enhancing the skills of students and researchers in plant identification but also sparked interest in the study and conservation of the unique plant species found in the Dhammapeta region.

ONE DAY SEMINAR

Date of Event: 24-11-2021

Topic : Introduction of embryology

Venue: Ttwrdc dammapeta

Organized by: Department of Botany

Resource Person: Dr. P. Uma devi ph.d kavitha degree college & pg college khammam

Introduction:

The Botany Department of organized a one-day seminar on the topic "Introduction to Embryology" with Dr. P. Uma devi as the resource person. The seminar was conducted to provide students and faculty members an insight into the fundamentals of plant and animal embryology, emphasizing its importance in understanding development, genetics, and biotechnology. Dr. P. Uma devi, a renowned expert in the field, delivered an engaging and comprehensive lecture that highlighted key concepts and advancements in embryological studies.

Seminar Highlights:

Opening Session:

The seminar commenced with a formal welcome address by Dr. [Insert Name], Head of the Botany Department. Dr. [Insert Name] expressed the importance of understanding embryology in the context of plant and animal growth, development, and evolutionary processes. The department's ongoing efforts to bridge the gap between theoretical knowledge and practical applications in biological sciences were also highlighted.

Keynote Address by Dr. P. Umadevi:

Dr. Umadevi, a specialist in plant and animal embryology, started her lecture by introducing the concept of embryology as the branch of biology that studies the formation, early growth, and development of living organisms. She explained the significance of embryology in various fields, such as agriculture, medicine, and genetics, and how understanding embryonic development can lead to advancements in biotechnology and reproductive sciences.

Topics Covered:

- **Basic Principles of Embryology:** Dr. Umadevi began by explaining the basic principles of embryology, covering topics such as fertilization, cleavage, gastrulation, and organogenesis. She illustrated these stages with detailed diagrams and animations.
- **Comparative Embryology:** The session also included a comparison between plant and animal embryology. Dr. Umadevi emphasized the similarities and differences in embryonic development between these two kingdoms, noting the importance of model organisms in both fields.

Interactive Session:

After the lecture, there was an interactive Q&A session where students and faculty had the opportunity to ask Dr. Umadevi questions. The discussion covered various interesting topics, such as ethical considerations in genetic manipulation, the future of embryology in stem cell research, and the implications of biotechnology in agriculture.

Conclusion:

The one-day seminar on "Introduction to Embryology," conducted by the Botany Department with Dr. P. Umadevi as the resource person, was a resounding success. It not only enhanced the participants' understanding of embryological processes but also highlighted the interdisciplinary applications of embryology in modern science. The department looks forward to organizing more such events to promote knowledge exchange and stimulate research in emerging fields of biological science.