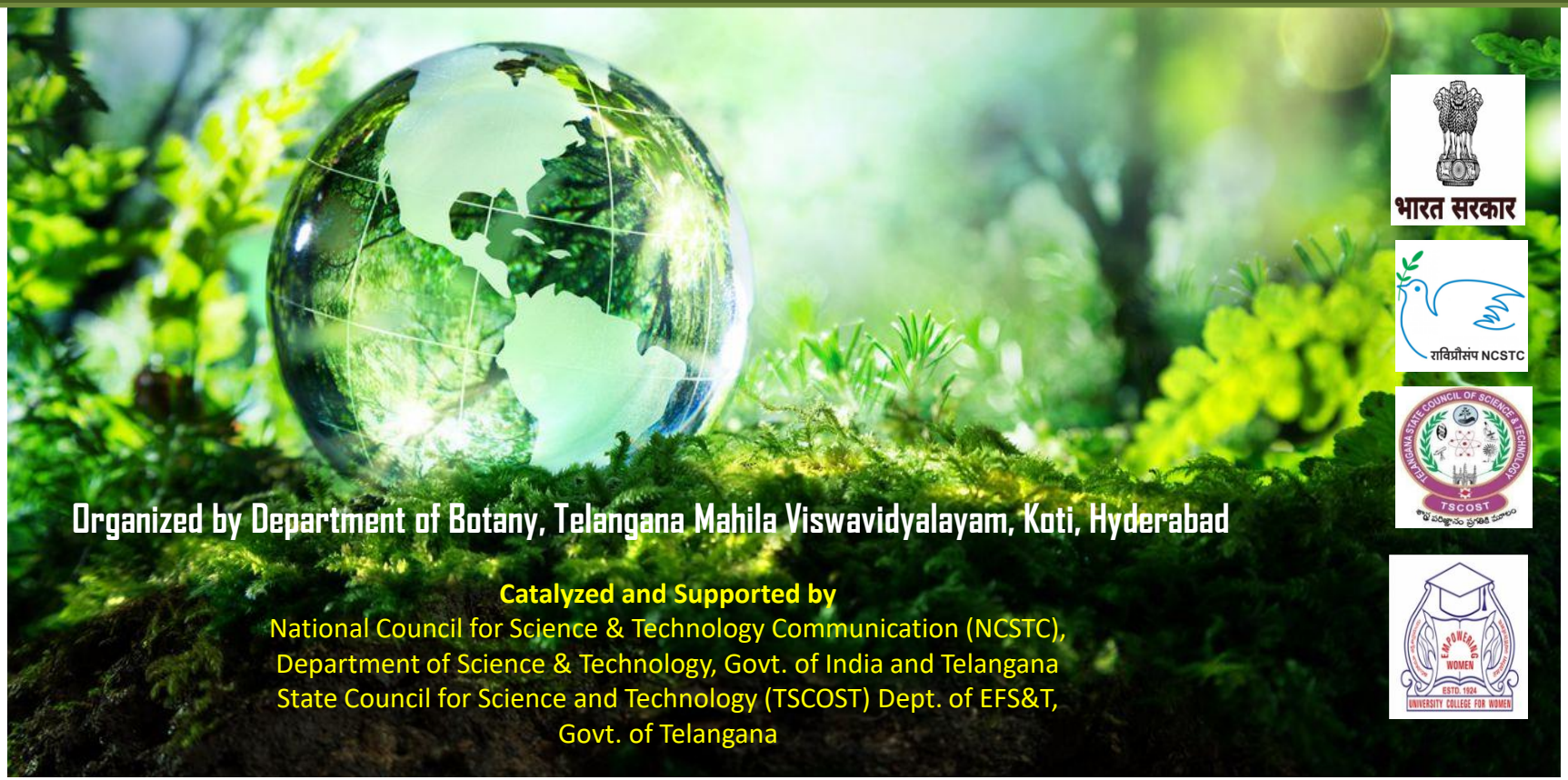
One Day National Seminar
on
Potential of Plants for the Sustainable Future

Date: 28th Feb, 2023
Venue: P.G. Seminar Hall TMV, Koti



Organized by Department of Botany, Telangana Mahila Viswavidyalayam, Koti, Hyderabad

Catalyzed and Supported by
National Council for Science & Technology Communication (NCSTC),
Department of Science & Technology, Govt. of India and Telangana
State Council for Science and Technology (TSCOST) Dept. of EFS&T,
Govt. of Telangana

Telangana Mahila Viswavidyalayam University (Women's University)

About Telangana Mahila Viswavidyalayam University

Telangana Mahila Viswavidyalayam (Women's University) were earlier known as University College for Women, Koti. It is accredited 'Five Stars' in the first cycle and 'A' Grade in the next two cycles of NAAC.

The College is located in a sprawling Campus of 42 acres covered with lush greenery. It has state of art Classrooms for UG and PG, Computer Labs, Seminar Halls fitted with LCD, Auditorium, Open-Air Theatre, Sports Room, Gymnasium, Sports Ground, well equipped laboratories, Commerce Lab, English Language Lab, Cafeteria, Staffrooms, Washrooms, Hostel with a TV Hall, Botanical garden, Animal house, Green house, Health centre etc. The institution utilizes optimally the existing infrastructure facilities for Diploma and Certificate Courses, Workshops, Seminars, Extension Lectures, Personality Development Classes, Students' Programs.

It caters to a large number of first generation learners; about 4000 students from most of the districts of the newly constituted state of Telangana. It provides both UG & PG programs. The College being autonomous offers various combinations of Undergraduate Courses (regular &self finance programs) under B.A, B.Sc. (Physical & Biological Sciences) and B.Com. and 13 Post Graduate Programs along with four Diploma and two Certificate Courses.

About Botany Department

Botany is the largest department of the university highly qualified and experienced faculty. The department promotes research and development in the area of plant sciences. International and national seminars, conference, awareness programs and guest lectures conducted regularly in the department to update the students with latest developments in Botany. The regularly organizes many programs like Tree Plantation program, Rain water harvesting, Vegetable dyes and Awareness on adulterated foods. Faculty members are recognized research supervisors for guiding Ph.D. students. The teaching faculty of this department has bagged several honours and awards in recognition of their meritorious credentials.

Botany is offered as one of the subject in B.Sc along with the combination of Biotechnology & Genetics, (G&BT), Food Science Management (FSM) and Food & Nutrition. The number of seats in M.Sc. botany is 25 and filled based on the merit according to the guidelines of the University. The specialization offered at M.Sc is Applied Mycology and Molecular Plant Pathology, with an elective of Horticulture and Plant breeding as one of the Inter discipline centric as part of CBCS system.

Botany departments has a departmental seminar Library with a collection of 2,750 books , in addition to the central library in the college campus. The department has good laboratory facilities catering to the need of UG, PG and research scholars of Botany. The department of Botany has around 4 acres of Botanical garden, with rich flora of native plants, herbs and medicinal plants.

About the Seminar

Throughout human history, plants have been the pervasive topic and at times dominant artistic and intellectual interest. Plants were important subjects from the earliest study of life processes, and they were central to scientific study in the nineteenth and early twentieth centuries. Good reasons remain to study the basic life processes of plants. Research on plants enriches our intellectual life and adds to our knowledge about other life processes. The results of research on plant systems also can teach us how to approach problems in agriculture, health, and the environment.

Plants along with fauna play a crucial role and are key to the health of the planet and its inhabitants. In the present scenario of climate change and global warming, increase in number of plants will have a great impact in mitigating the climate change. Plant science research mainly focuses on the resilient varieties to combat with the climate change. There are many breakthroughs which have enormous potential to address pressing global issues such as food insecurity, climate change, increase in pollution, extinction of species and various factors related to environmental stress.

Resilience of our food systems, medicinal systems and other products which are coming through plants play most pivotal role for sustenance of our ecosystem. Many modern technology can be made applicable to improvise plant production systems which can be then harnessed to enhance human health welfare through various advances. Plant support all life systems and effective management is necessary to preserve them for future generations and ultimately paves the way for sustainable development.

Plants are critical to human health. They are the sole source of some of the essential amino acids, vitamins, and other nutrients in our diet. Research with plants was central to elucidating the role of vitamins in human health and disease: Plants high in ascorbic acid, such as peppers and citrus, prevent scurvy. Grains in the diet provide B vitamins. Many drugs were first discovered as plant products before methods for their synthesis were developed. Research on plants yielded cardiac glycosides (such as digitalis), a wide range of useful alkaloids (such as scopolamine, atropine, quinine, and ephedrine), dicoumarol, and many other drugs. Research on lower plants and agricultural soils yielded many antibiotics. Even today, more than 20 percent of all prescription drugs are derived from plants.

Photosynthetic plants are the source of the fossil fuels we are depleting today, and they provide the most readily harvested source of renewable energy for tomorrow. The primary atmospheric gas incorporated by plants in photosynthesis, carbon dioxide, is one of the major ''greenhouse'' gases. Plants regulate the carbon cycle of the biosphere. Plants, in part through their unique symbiotic relationships with microorganisms, also play a major role in regulating the partitioning of nitrogen between atmospheric and life processes.

High Profile Speakers

Smt. A. Sonibala Devi, IFS

Special Secretary to Government and Chief Executive Officer,
Telangana State Medicinal Plants Board
Department of Health, Medical and Family Welfare, Government of Telangana

Dr. K. Anitha

Principal Scientist & Officer-in-Charge
ICAR- National Bureau of Plant Genetic Resources (NBPGR) Research Station, Hyderabad

Dr. J. Kotesh Kumar

Sr. Principal Scientist
& Scientist- in-charge
CSIR- Central Institute of Medicinal and Aromatic Plants, Research Centre, Hyderabad

Program Schedule

10: 00 am to 10 : 30 am : On-Spot Registration

10 : 30 am to 11 : 00 am: Inauguration

11 : 00 am to 11 : 15 am : Welcome Address

11 : 15 am to 11:30 am: Refreshments

11:30 am to 01 : 00 pm: Lecture by **Smt. Sonibala Devi**
Topic: Medicinal plants and future prospects

01 : 00 pm to 02 : 00 pm : Lunch Break

02 : 00 pm to 03 : 00 pm : Lecture by **Dr. K. Anitha**
Topic: Role of plant resilience with mitigation to climate change

03 : 00 pm to 04 : 00 pm : Lecture by **Dr. J. Kotesh Kumar**
Topic: Applied aspects of aromatic plants & medicinal plants

04 : 00 pm to 04 : 30 pm : Interactive Session

04 : 30 pm to 05 : 00 pm : Valedictory Program

Chief Patron

Prof. M. Vijjulatha
Principal, Telangana Mahila Viswavidyalayam

Patron

Dr. B. Shailaja
Vice-Principal, Telangana Mahila Viswavidyalayam

Convener

Dr. P.R. Sushama
Head, Department of Botany
Telangana Mahila Viswavidyalayam

Organizing Committee

Dr. M.Dorcas

Dr. Shivrani

Dr. Sulakshana

Dr. Mehtab Yasmeen

Dr. C. Saidulu

Dr. Hajera Sana

Dr. Srilatha

Inviting participants from various fields of Plant sciences : Researchers, Professionals, Teaching Faculty, Industry members, Research Scholars and Students

Registration :
Pay Registration Fee by **GPay** or **PhonePe** to the following account:
Name: PRINCIPAL, TMV Account No.: 52197214568
IFSC Code: SBIN0020062 Name & Branch: SBI, Koti & Hyderabad

Registration Form Link Below:

https://forms.gle/PG4YZne9f1KfTiUM8

Registration Fees

Faculty & others:
Rs. 300

Students:
Rs. 150