



Prof. USHA RAYALCHERUVU

M.Sc., M.Ed., Ph.D.

Department of Biotechnology
Sri Padamavati Mahila Visvavidyalayam
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Experience:

- **Professor**, Dept. Of Biotechnology. Sri Padamavati Mahila Visvavidyalayam, Tirupati (**2013 to till date**)
- **Associate Professor**, Dept. Of Biotechnology. Sri Padamavati Mahila Visvavidyalayam, Tirupati (16-09-2006 to 2012)
- **Lecturer**, Sri Padmavati Mahila Visvavidyalayam (Women's University), Tirupati (2001-2005)
- **Teaching Assistant**, Sri Venkateswara University, Tirupati (1998 to 1999)
- **CSIR-SRF**, Sri Venkateswara University, Tirupati(1993-1997)
- **CSIR-RA**, Sri Venkateswara University, Tirupati (1997 to 1998)
- **Qualified NET** by Andhra Pradesh College Service Commission 2013
- Fellowship: **INSA Visiting Fellow** by Indian Institute of Science Academy, New Delhi (2017-2018).

Research Experience	: Research: 21 years (1995 - till date); Teaching: 21 years (PG Level)
Research Publications	: 54
Books/Book chapters	-06-
Seminars/Conferences attended	: International- 42 ; National- 67
Research Projects	: National- 06
Ph.D./ MPhils/PostDocs Guided	: 9 (PhD-Awarded) 4 (PhD-Ongoing) +1 (MPhil-Awarded)
Seminars/Conferences organized	: International- 5 ; National- 10

Special Distinctions/Awards/ Honors:

- Gold medal in M.Sc. Botany for securing I Rank
- Gold medal in M.Ed. for securing I Rank & Distinction
- Associate fellow of A.P. Academi of Sciences-2008
- Talented Scientist Award in recognition of her outstanding contribution in the field of Biotechnology at International Level, in the World Congress on Pharmaceutical sciences and chemical technology, held during 16th – 18th December 2013 at Colombo, Sri Lanka.
- Rajiv Gandhi Gold Medal Award- 2015 - Global Economic Progress & Research Association (GEPRA), Tamilnadu.
- Best Research Advisor Award-2018- Indian Academic Researchers Association, Tamilnadu.
- Awarded as “Bright idea innovator”- 2019- DSIR-Tepp Outreach Cum Cluster Innovation Center (DSIR-TOCIC) in association with National Academy of Veterinary Sciences (India), New Delhi, Sri Padamavati Mahila Visvavidyalayam, Tirupati
- NES A EMINENT SCIENTIST OF THE YEAR AWARD-2020
- University Best Teacher Award for the year 2021
- Best Women Teacher Award-2021

Administrative Experience–SPMVV:

- Head In charge, Department of Industrial Biotechnology, School of Engineering & Technology, Sri Padamavati Mahila Visvavidyalayam, Tirupati for a period of 3 years i.e., 2007-2010
- Head and BOS Chairperson, Department of Biotechnology, Sri Padamavati Mahila Visvavidyalayam, Tirupati

- DBT, Co-Ordinator for M.Sc. Teaching Programme, Department of Biotechnology, Sri Padamavati Mahila Visvavidyalayam
- Coordinator for UGC Scheme for Entry into Services for SC/ST/OBC (Non-Creamy layer), Minority Community Students from 2013-2015
- Joint secretary for Teacher's Association of SPMVV, 2010-2013
- IQAC Committee Member, Sri Padamavati Mahila Visvavidyalayam, Tirupati
- Member, DST CURIE committee, Sri Padamavati Mahila Visvavidyalayam, Tirupati - Actively involved in the establishment
- Executive member - Technology Business Incubation Centre, Sri Padamavati Mahila Visvavidyalayam, Tirupati
- External Member, Board of Studies, Department of Biotechnology, S.V.University, Tirupati
- External Member, Board of Studies, Department of Biotechnology, Dravidian University, Kuppam
- Member, Institutional Biosafety Committee, SPMVV, Tirupati
- Member, Women Biotech Incubation Facility from 10-4-2019
- Research committee Member- Centre for Translational Research, Sri Padamavati Mahila Visvavidyalayam, Tirupati
- Research committee Member: Rural Women Technology Park **-Developing Nutraceuticals and transferring the technology to the rural women.** Funded by Department of Science and Technology, India-2017-2020
- Placement officer - Placement Cell, SPMVV, Tirupati, (2018-till date)
- Coordinator, Career and guidance counseling cell from June, (2019-till date)
- Co -Investigator & Research committee Member- UGC_STRIDE- "Tran disciplinary Research Initiative Centre on Adolescent Health (TRICA)"-2019 till date

Specialized National Training:

- Genomics and Metabolomics of Wild Medicinal Plants" held at Jawaharlal Nehru Tropical Botanic Garden and Research Institute, Palode, Tiruvananthapuram, Kerala
- Evaluation of Transgenic Crop Plants for Drought Tolerance, Department of Crop Physiology, University of Agricultural Sciences, GKVK, Bengaluru, Karnataka, India
- Summer training programme on Molecular Biology Techniques in techniques in Biology, Yercaud, salem district, Tamilnadu, India.
- "Plant Tissue Culture" at SANGENE institute of Biosciences, Bangalore, Karnataka, India
- Training in Genomic data analysis, with Special Focus on Genomic-wide Association Studies" at the International Maize and Wheat Improvement Center (CIMMYT), Asian Regional Maize Program, based at ICRISAT, Hyderabad

Extension / other activities:

- **As a Member-Center for translational Research** –organized workshops and Seminars and created awareness among faculty and Research Scholars on Transdisciplinary research
- **Coordinator for UGC Scheme for Entry into Services** for SC/ST/OBC (Non-Creamy layer), Minority Community Students from 2013-2015: Arranged coaching classes various competitive exams Group II, IBPS – Regional Rural Bank Clerks, DSC Coaching to enhance the job potential among the students
- **Executive Member, Technology Business Incubation Centre,** Sri Padamavati Mahila Visvavidyalayam, Tirupati- Actively involved in the establishment
- **Placement officer** - Placement Cell, SPMVV, Tirupati-as placement officer efforts made to enhance the number of placements to the academic year 2018 to 2021
- **As a Coordinator, Career counseling and Guidance Cell conducted various Skill oriented training programs for all disciplines to improve their Job Potential**

Collaborations

- Department of Plant Physiology & Plant Pathology, Regional Agricultural Research Station, Tirupati
- Scientific advisor for R&D, KMR seeds Pvt. Ltd, Guntur – 522 007, A.P., INDIA
- Genomics Lab, Institute of Frontier Technology, Tirupati, Andhra Pradesh, India
- Sri Devaraj Urs Academy of Higher Education and Research, Kolar, Karnataka, India.

- Asia Regional Maize Program, International Maize and Wheat Improvement Center (CIMMYT), ICRISAT Campus, Patancheru, Hyderabad, Telangana 502324, India.
- Department of Virology, Sri Venkateswara University, Tirupati
- Department of Chemistry, Sri Venkateswara University, Tirupati Department of Chemistry, Sri Venkateswara University, Tirupati, Andhra Pradesh, India
- Department of Chemical Engineering, S.V. University College of Engineering, Tirupati, Andhra Pradesh, India
- DST-PURSE Centre, Sri Venkateswara University, Tirupati – 517502, Andhra Pradesh, India
- Dr. Buddolla's Institute of Life Sciences, Education center in Tirupati, Andhra Pradesh

Membership with Professional and Scientific bodies:

- Member of A.P.Academi of Sciences.
- Life Member of Indian Botanical Society.
- Life Member of National Science Congress.
- Member of Environmental Biology.
- Member of Pollution Research.
- The Indian Society of Genetics and Plant Breeding
- Global Economic Progress & Research Association
- Member-National Environmental Science Academy-New Delhi