



**Sri Venkateswara University
Tirupati**

DEPARTMENT OF BOTANY



VISION

- To improve Internationally recognized status of the Department through excellence in higher education and application-oriented basic research in the field of plant science
- To perceive and disseminate the importance of plant diversity, its conservation and sustainable utilization
- To inspire intellectual pursuit and experimental skills through innovative teaching and research in basic processes of Plant life.

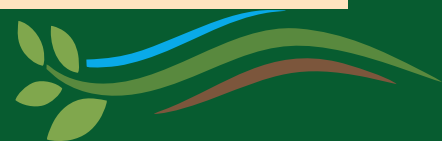
MISSION:

- Development of advanced infrastructural and technological facilities to strengthen quality education and research,
- To promote and foster collaborative research with scientific institutes and industry for enhanced scientific thinking and generating new ideas.
- To expand academic activity by offering new multidisciplinary courses and updating programs to suit to a wider spectrum of students and researchers.

ABOUT THE DEPARTMENT

The Department of Botany was established with a regular Post Graduate program during the year 1959. Subsequently, with the able leadership of Prof. V. S. Rama Das, the Department was recognized as a strong centre for Plant Physiology both at National and International levels, and became one of the International centres for photosynthesis research under UNEP program. So far, the Department has published nearly 2000 research papers in reputed National and International journals including Nature.

The Department has received special assistant grants from UGC-COSIST, SAP (DRS) and DST-FIST. The Department is equipped with Fluorescence and phase contrast microscope, Leaf Chamber Analyser-3 Photosynthesis Measuring System, U.V. Visible Spectrophotometers, Gel Documentation System, PCR Machines, High Speed Centrifuge, Deep Freezers etc., The facilities include Herbarium, Library, Museum, two botanical gardens, glasshouse, fern house, two tissue culture labs, computer lab and seminar hall.



HEAD OF THE DEPARTMENT & CHAIRPERSON, BOARD OF STUDIES

Prof. (Mrs) N. Savithamma, Former Executive Member of SVU; Acted as Principal & Vice-principal, SVU College of Sciences. Presently Dean, Faculty of Sciences and Dean, Women Empowerment, Chairperson, CASH & CG, Academic senate member, BOS Department of Botany SVU, VSU, DU. Coordinator DDE, Botany. 33 years of teaching experience with specialization in Molecular Plant Physiology, Medicinal plants and Nanotechnology. Received 10 awards including State Best Teacher award- 2014. 38 years of research experience guided 20 Ph.D & 10 M.Phil. Authored 13 books and 14 book chapters, 190 Research articles. Organized 13 National and International Seminars/Workshops/Webinars successfully Completed 9 International (IFS) and National Research Projects (APCOST, DST, MoEF, DBT, SERB, UGC, AICRP). Fellow of 10 scientific societies and life member in 17 Scientific Organizations FBSI, FIAAT, FPP, FNEA, FNESA, FAPAS etc. Acted as Resource Person in 120 Seminars/Conferences/Academic Staff College/Workshops. Presented 22 papers Internationally and 86 Nationally. Served as HOD (2 terms) & BOS Chairperson (2 terms). Special Officer for University Development & Spl. Officer, Examinations. Director for IQAC, AICRP.



Prof. Tartte Vijaya is specialized in the area of Microbiology and Plant Biotechnology with 25 yrs of research & 19 yrs of teaching experience. 15 PhDs & 10 MPhils awarded under her supervision. She has supervised 32 Biotechnology, 8 M.Tech. Student Projects. She has published 147 papers in reputed journals including 10 books. Organized 2 Intl. & 1 National Seminars. She was the Principal Investigator for 9 research projects funded by UGC, DST, DBT, MoEF, MoES, DMR-TUF, APCOST & SERB. She has been awarded UGC BSR Mid Career Award, Fellow of Biotechnology, Fellow of Environmental Sciences and Best Scientist Award. She served as Chairperson, BOS in Botany, Biotechnology & Head, Dept. of Botany. She is also Member in various committees of the University.



Dr. M. Nagalakshmi Devamma is specialized in the area of Microbiology and Plant Pathology with 25 yrs of research and 19 yrs of teaching experience. 8 Ph.Ds and 1 M.Phil. awarded under her supervision. She is the Principal Investigator for One UGC-MRP. She has published 70 research papers, 4 books and 15 Chapters. She has organized 5 National Workshops, attended 60 Conferences, Seminars etc. She has been awarded Talented Scientist Award and Scientist Year of the Award. She is Life Member in NESAI and Mycological Society of India.



Dr. J. Kamakshamma is specialized in the area of Pharmacology & Plant Biotechnology with 20 yrs of research & 15 yrs of teaching experience. 4 Ph.Ds & 2 M.Phils awarded under her supervision. She published 34 research papers, 1 Book & 9 Book Chapters. She attended 8 Intl. & 4 National Seminars. She was the Principal Investigator for one UGC major research project. She is Life Member in IJCAP and ISCA.



Prof. N. Yasodamma (Retd.) specialized in the field of Taxonomy, Phytomedicine, Biodiversity & Conservation. Guided 15 Ph.Ds & 4 M.Phil students. Published 70 Natl. & Intl. research papers; 3 Books and 3 Book Chapters. She attended 75 Conferences/Seminars/Workshops. Served as Chairperson, BOS in Botany, Head, Dept. of Botany, Co-ordinator, UGC-SAPDRS Phase I (2012-2017). Potential Member for Centre of Ecological Sciences, Bangalore. Resource Person for A.P. Forest Department. Life Member of Ethnobotanical Society, Lucknow, Indian Assoc. of Angiosperm Taxonomy, Calicut; Indian Botanical Society. Organized Alumni (Botany) Golden Jubilee Celebrations during 2012. Served as Director, Academic Staff College, SVU-HRD, SVU, Tirupati. Also served as Member for various governing bodies and committees of S.V. University, Tirupati.





Dr. K. Madhava Chetty (Retd.) is specialized in Plant Taxonomy, Chemo-taxonomy, Ethnobotany and Ethnopharmacognocny with 30 yrs of teaching experience and 36 yrs of research experience. He joined as Herbarium Keeper (1994-2006) and redesignated as Assistant Professor in Botany. He supervised 4 Ph.Ds students & 1 M.Phil. students. Published 50 papers in Natl. & Intl. journals and presented 40 papers in Conferences/Seminars. He also published 3 books. He worked extensively with the Flora of Chittoor District and several parts of the Andhra Pradesh & Telangana. He has been awarded Young Scientist and Gold Medal by Medicina Alternative, Sri Lanka. He has visited countries viz., China, Sri Lanka, Malaysia and Singapore and delivered lectures on biodiversity & medicinal plants. He is masterized in formulations and preparation of several herbal products such as Biogenic Malt, Herbal Hair Oil, Herbal Pain Oil, Memory Booster, Nervine Booster, Face Pack and Herbal Shampoo which are used by the public for several ailments.



Dr. J.S.R. Murthy (Retd.) specialized in Plant Molecular Genetics and Biotechnology and had 25 years of Post Graduate Teaching Experience. Recipient of two Research grants from UGC and published 17 papers and contributed 3 invited chapters in Reference Books. Guided 1 Ph.D., & 1 M. Phil., Program. As a co-investigator of Indo-Italy bilateral research Programme collaborated with Department of Plant, Soil and Environmental Sciences, University of Florence, Italy. Visited Malaysia, Singapore & Italy.



Dr. G. Sudarsanam (Retd.) specialized in Ethnobotany and Phytomedicines, 33 years of teaching and 36 years of research and guided 16 Ph.Ds & 5 M.Phil students. Authored 3 books, published 75 research papers in National & International journals. Organized 10 Intl. & 15 national Conferences/Seminars/workshops and attended various national and international seminars, symposia and conferences. Countries visited USA, Sri Lanka, China, Thailand, Indonesia, Malaysia, Singapore, Bhutan & Nepal. Elected Fellow of Society of Ethno Botanists (1992), India. Awarded Merit of Excellence (1994, 1996) by Medicina Alternative, Sri Lanka and Outstanding Scientist of the 20th Century, Award for the contribution in the field of Medicinal Plants by International Biographical Centre (IBC), Cambridge, London, UK (2000). Served as PRO, S.V.University Guest House during 1999-2004, Dean, Intl. Relations, Chairperson, BOS & Head, Dept. of Botany.

Courses offered:

M.Sc. Botany (40+12 Payment Seats)

Ph.D. (Full time & Part time)

SEM	Sl. No	TITLE OF THE PAPER	SEM	Sl. No	TITLE OF THE PAPER
Semester – I	1.	Algae, Bryophytes, Pteridophytes and Gymnosperms	Semester – III	1.	Molecular Plant Physiology
	2.	Taxonomy of Angiosperms		2.	Molecular Biology and Techniques
	3.	Microbiology		3.	Mushroom Cultivation
	4.	Plant Development and Reproduction		4.	Plant Resource and Human Welfare
	5.	Theory papers : Bot-101 & 102			Gardening and Nursery Techniques
	6.	Theory papers : Bot-103 & 104			Organic Farming
Semester – II	1.	Plant Biochemistry and Metabolism	Semester – IV	5.	Theory papers : Bot-301 & 302
	2.	Phytobiodiversity and Conservation		6.	Theory Paper : Bot-303A Mushroom Cultivation
	3.	Plant Ecology		1.	Genomics and Proteomics
	4.	Cell Biology, Genetics and Evolution		2.	Plant Biotechnology
	5.	Theory Papers : Bot-201 & 202		3.	Phytomedicine Horticulture
	6.	Theory Papers : Bot-203 & 204		4.	Dissertation, Presentation & Viva
				5.	Nano biotechnology
					Ethnobotany and Plant Drugs
					Forest Management

Ph.D.'s Awarded :

222 nos. (1964-2022)

21 nos. (2017-2022)

Post doctorals - Number & Details

Dr. S. Ankanna, UGC – PDF

Dr. K. Chandra Mouli, UGC – PDF for

Department Projects with details : 05

Laboratories in the Department : Student Labs – 7

Fellowships - Staff, Students -

UGC BSR Fellowships - 5

DST - PURSE Project Fellows - 2

Conferences/Seminars/Workshops/Webinars – organized – Details – Date, Title of Seminar /Conferences /Workshop, Funding agency Grant aid - 13

Extension out reach activities conducted by department – date /year activity name, with photograph.

1) Plantation Programme : 2017-2018

Plantation of Red Sanders in villages of the Chittoor District including SVU Campus In collaboration with Chittoor NRIs (under MoU with Chittoor NRIs, 2015-2025).

2) Self Defense to University Women Students:

(i) Conducted in the University during 2017-2018 by Prof. G. Sudarsanam, VI Don Black Belt, Centre for Martial Arts, Okinawa-Karate-Do, Department of Botany, SVU, Tirupati.

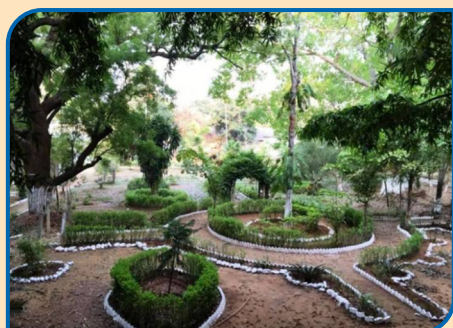
(ii) Technical Presentation on Self Defense Training Programme on 10.10.2018 in collaboration with Commissioner of School Education, Govt. of A.P., Amaravathi

(iii) State Level Workshop on Self Defense to Girls on 10-11th Dec., 2018 in association with State Programme Director, Andhra Pradesh Mahila Samatha Society, Dept. of School Education, Govt. of A.P.

3) Swatcha Bharath : 2019-2020

Clean and Green Programme by M.Sc. Botany Students, Scholars and Staff

4) The Department conducted Long Botanical cum Instructional Tour to Munnar, Kerala by M.Sc. Botany Students during 25-28th June, 2022.



Botanical Garden



KNR Herbarium



Hydroponics Laboratory



Clean & Green Extension activity



Garden visit



Botanical Tour



INSA 14 days workshop



Poster release- Online Int. Seminar on Nanotechnology



Int. Webinar organized in SLI Webcasting centre