

Dr. S. Padmavathi
Lecturer in Botany
GDC, Chodavaram, Anakapalli Dt.



Personal Profile	
Designation	Lecturer In Botany
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Educational Qualifications	
M. Sc (Botany)	Specialization: - Plant Biotechnology - Plant Molecular Genetics
Ph. D	<i>"Isolation and Identification of mercury tolerant Bacteria using 16S r RNA Gene sequence analysis and study of its effect by the application of RAPD technique on Pigeon Pea"</i> Thesis won Prof. BGS Rao memorial Best thesis award for Ph. D for the year 2021 from Andhra University during 91 & 92 Combined Convocation.
APSET	2012

Achievements/ Awards	
Prestigious Prof. BGS Rao Memorial Prize	Best thesis award for Ph. D for the year 2021 from Andhra University
Appreciation Award	18-10-2022-Appreciation Award for meritorious service as Content Developer & Master Trainer , CCE, Government of Andhra Pradesh
Guru Brahma Ugadi Puraskaram, 2026	Mother Theresa Trust
Upadhyayaratna National Award-2026	Savitribai Phule Memorial Organization

Seminars Organized

Sl. No.	Title
1	Convener & Organizing Secretary for UGC Sponsored Two Day National Seminar entitled "Biodiversity and Phytoluxuriance as A Way for Eternal Green Globe" - Organized on 29 - 30 th January 2016 at Visakha Govet. Degree College (for Women (A), and the Seminar Proceeding Publication Book (June, 2016) Published by Vijayanarasimha Publishers, Hyderabad with ISBN: 978-81-931899-7-9.

Research Publications, Books & Scholarly Contributions

Research Publications	
1.	Physico-Chemical Status of Effluent Discharged from A Chlor-Alkali Industry Containing Mercury at Ganjam (Odisha). 2019- Society Of Life Sciences LINK
2.	Isolation And Identification of Mercury Tolerant Bacteria from Mercury Contaminated Areas. International Journal for Innovative Research in Multidisciplinary Field (IJIRMF) LINK
3	Growth And Carbon Metabolism Assessment in Finger Millet (<i>Eleusine Coracana</i> L. Gaertn) Seedlings Undergone PGPR Treatment Subjected to NaCl Stress. World Wide Journal of Multidisciplinary Research and Development (WWJMRD) LINK
4	Assessment Of Mercury Toxicity on Seed Germination, Shoot and Root Growth of <i>Cajanus Cajan</i> (L.) Millsp. World Wide Journal of Multidisciplinary Research and Development (WWJMRD) LINK
5	Study Of Antibacterial Efficacy of Green -Synthesised Silver-Nickel Hybrid Nanoparticles Journal of Advanced Scientific Research, (JSAR) LINK
6	Amelioration Of Mercury Stress Using Mercury Tolerant Bacterium by Studying Growth, Antioxidant Enzyme Activities, Lipid Peroxidation and Proline Content in Pigeon Pea Research Journal of Agricultural Sciences (RJAS)- An International Journal E- ISSN: 2249-4538 LINK
7	Nanotechnology In Plant Disease Management - An Overview Journal Of Advanced Scientific Research (JSAR) ISBN 0976-9595 (E) LINK
8	The Impact of Nep-2020 On Higher Education in India & Challenges in Implementation: A Comprehensive Review Education and Society (शिक्षण आशण समाज) ISSN: 2278-6864 (UGC Care Journal) LINK
9	Phytosynthetic Nanoparticles for Dye Degradation of Contaminated Water Journal of Chemical Health Risks (JCHR) LINK
10	Mitigation Of Heavy Metal Stress on Plants LINK
11	Nano-Medicine: Advancements in Disease Detection and Cure International Journal of Research Publication and Reviews, LINK
12	Microplastics And Nanoplastics: Analytical Methods, Ecotoxicity and Mitigation Strategies International Research Journal of Modernization in Engineering Technology and Science (IRJMETS) LINK
13	Phytochemical Screening, Antimicrobial and Antioxidant Activity of Bark Extract of <i>Ficus benghalensis</i> L Journal of Xidian University (JXU) LINK
14	Genotoxic Effects of Heavy Metals on Plants

	International Journal Advanced Research Publications <u>LINK</u>
15	Conservation And Sustainable Use of Medicinal Plants Journal Of Advance and Future Research (JAAFR) <u>LINK</u>
16	Sacred Botanical Heritage of India: A Review of Nakshatra Plants and Their Cultural Significance Journal Of Advance and Future Research (JAAFR) <u>LINK</u>
17	Healing Aromas-A dive into essential oils and their uses Journal of Advance and Future Research (JAAFR) <u>LINK</u>
18	A Review on Eco-Friendly Biopolymer Nanocomposites International Journal of Advanced Research Publications (IJARP) <u>LINK</u>
19	Harnessing IAA-Producing Rhizobacteria for Mitigation of Salinity, Drought and Heavy Metal Stress in Plants International Journal of Versatile Research and Analysis (IJVRA) <u>LINK</u>
20	Beyond Reform: The Risks of Increased Autonomy and Unregulated Internships Under NEP 2020 (2026) International Journal of Versatile Research and Analysis (IJVRA) <u>LINK</u>
21	Eco-Friendly Wastewater Treatment Technologies: Role of Microbes, Enzymes, And Plants International Journal of Versatile Research and Analysis (IJVRA) <u>LINK</u>
22	Medicinal Value of Nakshatra Plants- A Comprehensive Review International Journal of Versatile Research and Analysis (IJVRA) <u>LINK</u>

Books/ Book Chapters	
	Books
1.	“Biodiversity And Phytoluxuriance as A Way for Eternal Green Globe” - Proceeding Publication Book (June, 2016) Published by Vijayanarasimha Publishers, Hyderabad with Isbn: 978-81-931899-7-9. Publishers: Vijaya Narasimha
2.	Gardening & Landscaping-ISBN 978-93-340-5911-3 Dt. 04/12/2024
3.	Sow, Grow & Sustain. 978-93-341-7956-9. 06/12/2024
4.	Practices in Organic farming ISBN: 978-93-341-7608-7/ Dt. 7/12/2024
5.	Divine Flora -Siritual 7 Healing Power Of Sacred Plants - Publishers: Shine Publishers ISBN-978-93-88500-11-1
6.	Nine Keys to The Success-Unlocking the Path of Achievement-ISBN-ISBN: 978-93-5626-347-5. Dt. 7-2 -2026
	Book Chapters
1.	Plant Nursery ISBN no-978-81-978011-7-4 dt. 26-07-2024 Publishers: APCCE
2.	Principles Seed technology. ISBN: 978-93-341-7612-4 Dt. 5-12- 2024
3.	Crops-Specificity of Nanofertilizers, Nanofertilizers in Agriculture-Springer Cham 978-3-031-78096-7 Dt. 02 March 2025
4.	Plant Growth Promoting Cyanobacteria–Based Nanoparticles in Agriculture Nanofertilizers in Agriculture-Springer Cham 978-3-031-78096-7 Dt. 02 March 2025

5.	Plant Growth Promoting Algae-Based Nanoparticles in Agriculture Nanofertilizers in Agriculture-Springer Cham 978-3-031-78096-7 Dt. 02 March 2025
6.	Mechanism and Application of Biocatalysis in Nanofertilizer Development Nanofertilizers in Agriculture-Springer Cham 978-3-031-78096-7 Dt. 02 March 2025
7.	AI in Microbiology -De Gruyter (in system downloads)
8.	Roots of resilience: phytochemical and antioxidant perspectives on Digitaria longiflora (Retz.) Pers Publishers: Ambika Prasad Research Foundation, Odisha, India Pharmacologically Important Grass Species, Volume 1; (2025); ISBN: 978-81-989192-8-1
9.	AI in Probiotics, in the Conference proceedings of Two-Day National Conference On Artificial Intelligence and Machine Learning For Lifesciences AIMLS -2025 organized by SRR CVR College from 14 &15 November 2025. https://drive.google.com/file/d/1cqQCURHjHYboCZnTZRBnhU3tEiaVcds/view?usp=sharing
10.	Chapter-9 Recent Trends in the Early Diagnosis and Treatment of Type 1 Diabetes. Springer nature book -Autoimmune Disease Diagnostic and Management ISBN 978-981-95-7489-6ISBN 978-981-95-7490-2 Publisher: Publisher: Springer Singapore
11.	Chapter-8 Pathogenesis and Management of Type 1 Diabetes Springer nature book - Autoimmune Disease Diagnostic and Management ISBN 978-981-95-7489-6ISBN 978-981-95-7490-2 Publisher: Publisher: Springer Singapore
12.	Early Diagnosis and Management of Autoimmune Diseases. Springer nature book - Autoimmune Disease Diagnostic and Management ISBN 978-981-95-7489-6ISBN 978-981-95-7490-2 Publisher: Publisher: Springer Singapore

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Academic Contributions

RCs/OCs/FDPs/Seminars Attended	
1.	Orientation Workshop On Oer Content Development, Moocs And Moodle, from 26-10-2018 To 31-10-2018, Electronics & ICT Academy, NIT, Warangal, TN - LINK
2.	New Knowledge On Pedagogical Methods And Frontiers In Emerging Technologies by CCE, AP FROM 13-07-2020 TO 17-07-2020 LINK
3.	Swayam Arpit Online Course In Disaster Management organized by Nagpur University, Amba Vihar South Ambazari Road, Nagpur, Maharashtra from 21-11-2018 To 28-02-2019 LINK
4.	“Managing Online Classes & Co- Creating Moocs 16.0” Organized by Teaching Learning Centre, Ramanujan College, University Of Delhi Under The Aegis Of Ministry Of Education & Pandit Madan Mohan Malaviya National Mission On Teachers And Teaching from 13 - 27 July, 2022- LINK
5.	Quantum computing FDP organized by MNIT JAIPUR from Aug 18 -Sept 11 2025- LINK
6.	AI in Life sciences organized by APCCE & Excel R from 23rd February 2026 to 13th March 2026. LINK

-- Other Academic Contributions

1. Worked As A Translator For The Translation Project Of Swayam, Conducted by IGNOU (Indira Gandhi National Open University), And Translated 04 Transcripts Of Commercial

Fruit Production Of Guava And Pomegranate And Translated 07 Videos Of Technology Of Fermented Cheese And Ice Cream Byproducts [LINK](#)

2. Botany LMS 4 Quadrant Preparation - [LINK](#)
3. Attended As Academic Advisor to Conduct Academic Audit On 15.09.2018 At SVVMC College for Degree and P.G. Courses, Visakhapatnam.
4. Resource person & Master Trainer for Plant Nursery organized by APCCE at Andhra University [LINK](#) & [MTTP Certificate Dr S Padmavathi.pdf](#)
5. Acted As Judge for Life Sciences, Zonal Level Science Fair Held at Vsp

Extension Lectures

Sl. No	Extension Lecture Delivered at
1.	Dept Of Botany, Gdc, Palakonda, Srikakulam Extension Lecture on Gene ExpressionDt. 4 th March, 2014
2.	Yelamanchili -Women's Day Chief Guest March 8, 2022 LINK
3.	GDC, Narasanna peta Extension lecture LINK
4.	Extension lecture at Visakha government degree college autonomous (W), Visakhapatnam. A Talk on Personality Development on Dt: 21-11-25 LINK
5.	Extension lecture at V. Madugula on 23-07-2026 LINK
