

Name: Dr. T. V. SURENDRA
Designation: Assistant Professor
Department: Humanities & Sciences
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Experience (in years):10 **Teaching:** 4 y **Research:** 8
Others (if any, specify):

1. Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	Ph.D	2018	Chemistry (Nanotechnology and Photocatalytic Activity)
2	PG	2012	Organic Chemistry
3	UG	2009	Biotechnology, Biochemistry, Chemistry

2. Teaching and Learning:

2.1. Teaching Interests:

Engineering Chemistry, Environmental Science, Recent trends in Science and Technology, General Chemistry, Organic and Inorganic Chemistry, Polymer Technology, Physical Chemistry, Instrumentation Methods, Nanotechnology.

2.2 Novel Teaching & Learning Techniques adopted:

- POGIL
- WIT&WIL

2.2. Involvement in curriculum updating / Design: Nil

3. Co-curricular and Extra-Curricular Activities

3.1. Interests and Hobbies:

Exploring new things
Teaching and Learning
Listening Music and
Playing games

3.2. CCA/ECA Organized:

3.3. CCA/ECA participated:

3.4. Counseling and Mentoring Activity:

3.5. Committees involved in:

Department level:

Institute Level:

4. Conference / Workshop / Seminar / Guest Lectures:

4.1 Conducted:

- Organized the online quiz contest on “A View on World Wide Vaccine Candidates@COVID-19” on 19th Aug, 2020, in Department of Chemistry, RGM CET, Nandyal, Kurnool, A.P. (Co-Convener).
- Organized the National Webinar on "Application of Metal-Organic Frameworks (MOFs) as Electrochemical Sensors” on 27th June, 2020 in Department of Chemistry, RGM CET, Nandyal, Kurnool, A.P. (Convener).
- Organized the FACULTY DEVELOPMENT PROGRAMME (FDP) on “Applications of Nanotechnology in Bio-medicine & Energy” on 13 to 14th July-2020, in Department of Chemistry, RGM CET, Nandyal, Kurnool, A.P. (Convener).

4.2 Attended:

- Presented a paper in national conference on “Materials for sustainable development” Ramco Institute of Technology, Tamil Nadu, 11 and 12th, Jan-2018.
- Presented a paper in International conference, “3D- Approaches in Combinatorial Chemistry: Challenges and Perspectives”, Arulmigu Kalasalingam College of Pharmacy, Krishnan Kovil, Tamil Nadu, 28th, Feb- 2018.
- Presented a paper in International conference, ICACCS-18, Pachaiyappa’s College, Chennai, Tamil Nadu, 2 & 3rd, Feb- 2018.
- Presented a paper in International conference, RABT-17, Thiruvallur University Serkhad, Vellore, Tamil Nadu, 15-17, Feb- 2017.
- Presented a paper in NCACST- 17, 2 & 3, Feb- 2017
- Presented a paper in National symposium, Thiruvallur University, Serkhad, Vellore, Tamil Nadu, 26 & 27 Feb- 2015.
- Presented a paper in National seminar on plant mediated pharmaceuticals & approaches to the synthesis of bio active natural products, Hindu college, Guntur, A.P on 18 &19, July 2014.
- Presented a paper in national conference on Collaborative Research in Ayurveda & Modern Biology, AVP Research foundation, Coimbatore, Tamil Nadu on 3 & 4, Feb- 2014.
- Presented the paper in the International Seminar on Emerging Synthetic & Medicinal Chemistry (ESMC- 2013). Held in Vikramasimhapuri University, Nellore, A.P on 13-15, Nov- 2013.
- Participated in International Year of Chemistry, Chemistry Quiz Organised by IGCAR Kalpakam on 15th September 2011.
- Presented a research paper in the “3rd International Conference on Science, Engineering and Technology” organized by VIT University, Vellore on November 17-18, 2011.
- Presented a research paper in the “2nd International Conference on Science, Engineering and Technology” organized by VIT University, Vellore on 20-21 April 2011.

4.3 List of Faculty Development Programs attended

- Attended the online faculty development program on “Role of Chemistry in COVID-19” conducted by organized by Department of Chemistry, School of Basic Sciences, Vels Institute of Science, Technology and Advanced Studies (VISTAS) on 13th May 2020.

- Attended the online faculty development program on “Role of Chemistry in COVID-19” conducted by organized by Department of Chemistry, School of Basic Sciences, Vels Institute of Science, Technology and Advanced Studies (VISTAS) on 13th May 2020.
- Attended the Faculty development program on “Nuclear Power Technologies through ICT” conducted by National Institute of Technical teachers Training and Research, Chandigarh from 17-21st December, 2018.
- Attended the Faculty development program on “Pedagogy of Chemistry in Higher Education” on 28th May – 1st June, 2018.
- Attended the Faculty development program on “Research and Development, IQAC metrics and Academic Performance Index with Case Study” on 22nd June, 2017.
- Attended for the Faculty development program on “Art of Counseling and Mentoring” on 20th June, 2017.
- Attended the Faculty development program on “Mentor-Mentee and Consultancy Activities” on 21st June, 2017.
- Attended the “Faculty Induction Program” from 12-17th, June 2017.

5. Academic Contribution and Research & Consultancy:

5.1. Invited Lectures: Nil

5.2. Articles / Chapters published in Books:

- T.V. Surendra*, C.S. Espenti, M. Shankara Rao and S.V. Arunachalam (2020). Metal Oxide Modified Electrochemical Sensors for Toxic Chemicals. Vol. 2021, pp. 19-45. ISBN: 978-0-12-820727-7 (Elsevier publisher).
- M. Arunpandiyam, T.V. Surendra, N. Yousff and S.V. Arunachalam, Bioinspired metal oxide nanostructures for Photocatalytic Disinfection, Under review (Elsevier publisher).
- T.V. Surendra*, C.S. Espenti, S.V. Arunachalam (2020). Nanostructured materials for photocatalytic energy conversion, Vol. 2020, pp. 325-343, ISBN: 9780128195529 (Elsevier publisher).
- Balakrishna, G. Sravya, T.V. Surendra, C. Suresh Reddy, Grigory V. Zyryanov and N. Bakthavatchala Reddy (2020). Multidrug resistance and the prospects of combination therapy, Vol. 2020, pp. 65-79, ISBN: 9780128205785 (Elsevier publisher).
- S.M. Roopan, T.V. Surendra and G. Madhumitha (2016). Preparation and Properties of Biopolymers: A critical review. Biodegrad. polym., Vol. 3, pp. 541-553, ISBN: 9781119041450 (Wiley publishers).
- S.M. Roopan, T.V. Surendra and G. Madhumitha (2017). Synthesis and medicinal properties of polycarbonyls and resins from renewable sources. Handbook of composites from renewable materials., Vol. 7, pp. 363-380 (Wiley publishers).

5.3. Books published as single author or as editor: Nil

5.4. Projects Guided :

a) UG : 01

b) PG :

5.5. Research Interests: Synthesis of nanomaterials, Characterization, Wastewater treatment, Organic Catalytic Reactions and Biological Activities.

5.6. Ph.D students :

a) Enrolled :0

b) Submitted :0

c) Awarded :0

5.7. Papers published in reviewed journals:

S.No	Title of the Paper	Journal Name Vol.No. PP	ISBN/ISSN No.	Impact Factor/ Citation Index	National/ International
1	RSM experimental design for photo-catalytic degradation of amaranth dye using green-synthesized Au NPs.	Cluster Science		1.35	International
2	Biogenic approach to synthesize rod shaped Gd ₂ O ₃ NPs and its optimization using RSM-BBD model.	Biotechnology progress, Vol. 35, pp. 1-12.		2.334	International
3	Multi-perspective CuO@C nanocomposites: Synthesis using drum sticvk peel as carbon source and its optimization using Response Surface Methodology.	Composite Part B., Vol.172, pp. 690-703		7.635	International
4	Degradation Treatment of 4-Nitrophenol by Moringa oleifera Synthesised GO-CeO ₂ Nanoparticles as Catalyst.	J.Inorg.Organomet. Poly. Mat., Vol. 28, pp. 2241-2248		1.75	International
5	Photocatalytic and antibacterial properties of phytosynthesized CeO ₂ NPs using Moringa oleifera peel	J. Photchem. Photobiol. B., Vol. 161, pp. 122-128.		4.383	International

	extract				
6	Vegetable Peel Waste for the Production of ZnO Nanoparticles and its Toxicological Efficiency, Antifungal, Hemolytic, and Antibacterial Activities	Nanoscale Res. Let., Vol. 11, pp. 1-10.		3.559	International
7	RSM optimized Moringa oleifera peel extract for green synthesis of M. oleifera capped palladium nanoparticles with antibacterial and hemolytic property	J. Photchem. Photobiol. B., Vol. 162, pp. 550-557		4.383	International
8	Phenolic compounds in drumstick peel for the evaluation of antibacterial, hemolytic and photocatalytic activities	J. Photchem. Photobiol. B., Vol. 161, pp. 463-471		4.383	International
9	Biosynthetic trends and future aspects of bimetallic nanoparticles and its medicinal applications	Appl. Microbiol. Biotechnol., Vol. 98, pp. 5289–5300		3.30	International
10	Low cost and ecofriendly phyto synthesis of silver nanoparticles using cocos nucifera coir and its larvicidal activity	Ind. Crop. Prod., Vol. 43, pp. 631-635.		4.244	International

5.8. Papers presented at National / International Journals :

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1	0	0	0	0

5.9. Sponsored research Projects:

S.No	Title	Agency	Period	Grant amount	Ongoing / Completed

5.10 Consultancy Projects:

S.No	Title	Agency	Period	Sanctioned Amount	Ongoing / Completed

6. Awards / Honors received:

- Achieved a research award and got 4th place in SAS, 2017 from VIT University, Vellore, Tamil Nadu.
- Achieved best citation of paper award from VIT University, Vellore, Tamil Nadu.
- Achieved a research award in 2016 from VIT University, Vellore, Tamil Nadu.
- Achieved a research award in 2015 from VIT University, Vellore, Tamil Nadu.
- Achieved a research award in 2014 from VIT University, Vellore, Tamil Nadu.

Motto: I believe that Education is a commitment to excellence in Teaching and Learning.