




DAYANANDA SAGAR ACADEMY OF TECHNOLOGY & MANAGEMENT

Art of Living, Udayapura, Kanakapura road, Bangalore- 082

Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi
CE, CSE, ECE, EEE, ISE, ME Courses Accredited by NBA, New Delhi



DEPARTMENT OF CHEMISTRY

Faculty Name	Dr. LAVANYA .R	
Designation	Assistant Professor	
Educational Qualification	M. Sc., B.Ed., Ph.D.	
Experience in Years	14	
Area of Interest	Material Science	
Email ID	lavanya.r@dsatm.edu.in	

Educational Details

- Ph.d -Material Science -VTU
- B.Ed - Chemistry & Biology- Kuvempu University
- M.Sc - General Chemistry - Kuvempu University
- B.Sc - Chemistry, Botany & Bio-tech - Kuvempu University

Personal Details

- Date of Birth: 01/09/1988
- Hobbies: Reading scientific inventions, Gardening
- Languages Known: Kannada, English, Hindi

Professional Experience

- Working as an Assistant Professor at Dayananda Sagar Academy of Technology and Management from July 2013 to till date.
- Worked as a Lecturer in Chemistry Department at Shirdi Sai PU College from June 2011 to November 2012.

Research Publications

1. R Lavanya, T Ramakrishnappa, K M Girish, K Suresh Kumar, M Radhakrishna Reddy and H R Prakash, "Synthesis and characterization of hydrothermally derived cerium-doped TiO₂@MoS₂ nanocomposites for waste-water treatment and super capacitor applications", Bull. Mater. Sci. 2023. <https://doi.org/10.1007/s12034-023-03112-0>.
2. K.M. Girish, Burragoni Sravanthi Goud , Ramachandra Naik , S.C. Prashantha, H. Nagabhushana , R. Lavanya , G.V. Ashok Reddy, Jae Hong Kim, "Photoluminescence and

photocatalytic properties of Zn₂TiO₄: Cr³⁺ nanophosphors”, Inorganic Chemistry Communications, 151,(2023), 110628.

<https://doi.org/10.1016/j.inoche.2023.110628>.

3. Lavanya R, Ramakrishnappa T, Girish K.M, Suresh Kumar K, Basavarajur N, and Shilpa B.M, 2024. “Blackberry gel-assisted combustion modified MgO: Sm³⁺ nanoparticles for photocatalytic, battery, sensor and antibacterial applications”.Results in Chemistry ,7: 101417. <https://doi.org/10.1016/j.rechem.2024.101417>.
4. Lavanya Ramakrishna, Ramakrishnappa Thippeswamy, Girish Kachamachenahalli Mallesh, Suresh Kumar Kempahanumakkagari, “Eco-friendly synthesis of novel magnesium oxide nanomaterials for dye degradation, battery, and sensor applications”, Next Materials 4 (2024) 100193. <https://doi.org/10.1016/j.nxmate.2024.100193>.
5. Lavanya R., Ramakrishnappa T. ,Girish K. M., Suresh Kumar K., Basavaraju N., and Shilpa B. M., “Green-Synthesized Sm³⁺ -Doped ZnO Nanoparticles for Multifunctional Applications”, Advances in Materials Science and Engineering, (2024),3618390. <https://doi.org/10.1155/2024/3618390>.
6. Lavanya R, Ramakrishnappa T, Girish K M, Suresh Kumar, Prakash T and Ramachandra Naik, “Green synthesis of Syzygium cumini fruit extract mediated Tb³⁺doped ZnO nanoparticles for enhanced photocatalysis and electrochemical sensing”, Sensing Technology, 2(1), (2024) ,2336930. <https://doi.org/10.1080/28361466.2024.2336930>.
7. K.M. Girish, R. Lavanya, N. Sowmyshree, Kushi D. Jain, K. Gurushantha, T. Ramakrishnappa, “Preparation and electrochemical properties of Co₃O₄ as potential electrode materials for supercapacitor and battery applications”, Future Batteries 6 (2025) 100071. <https://doi.org/10.1016/j.fub.2025.100071>.

International Conferences Attended

- Presented paper on “Structural and Photocatalytic properties of combustion Engineered TiO₂ nanoparticles ” in the 1st International conference on Academic Research in developing countries Organized by Department of Chemistry, Nagarjuna Government College, Nalgonda, from 29th to 30th August 2022.
- “Accelerating Innovations in Material sciences” AIMS-2020 Organized by BMSIT,Bangalore from 4th to 07th August 2020.

Patent

“Nanotechnology-based methods for developing efficient water purification systems.” Published in Jan 2025, Application No. 202441099839.

Books Published

1. Title: “Applied Chemistry for Electrical Stream”

Publishers: Astitva Prakashan

ISBN: 978-93-583-8917-3

2. Title: “Lasers and Its Applications”

Publishers: Notion Press

ISBN: 979-88-906-7194-3

3. Title: “Scientific Foundation of Health “

Publishers: Azad Publications

ISBN: 978-93-100-0060-3

Faculty Development Activity

- **FDP** on “Research Structuring and Publication Process” held at Centre for Research & Training, NFED, Tamil Nadu, during 23rd May – 27th June 2025 at Vasireddy Venkatadri Institute of Technology, Andhra Pradesh.
- **Workshop** on “Hands-on training on Electrochemical Techniques and energy storage systems” held at CIIRC, Bengaluru held on 23rd October 2024.
- **FDP** on “Smart Materials and Research opportunities” held during 27th May – 31st May 2024 at Vasireddy Venkatadri Institute of Technology, Andhra Pradesh.
- **FDP** on “Advanced Functional materials for science & Engineering-2023 (AFMSC)” held during 15th May - 19th May 2023 at Don Bosco Institute of Technology.
- **FDP** on “Insight into analytical techniques and its Applications” (IATA-2021)” held during 21st June 2021 – 25th June 2021 at Acharya Institute of Graduate Studies.
- **FDP on** “Advanced material Techniques intended for Engineering Applications” organised by the Department of Chemistry, BMSIT held between 31st and 5th November, 2022.
- **FDP on** “Nuances of Writing Research Proposals and Funding Opportunities” organised by the Department of MBA, DSATM under IQAC & Research Cell held between 15th and 20th November, 2021.
- **FDP on** “Accelerating Innovations In Material Science - Surface Characterization”, organized by Department of Chemistry, BMS Institute of Technology & Management, Bengaluru, India from 18th to 22nd May, 2021.
- **FDP on** “Insight in to analytical Techniques and its Applications” (IATA-2021) organized by Department of chemistry , Acharya Institute of Graduate Studies From 21st to 25th June 2021.
- **FDP on** “ IP Rights and Patening” organized by IPR cell and the IRIS techno cultural Forum,

Dept. of ECE at Nitte Meenakshi institute of Technology, Bengaluru-64 from 05th to 09th Oct 2020.

- **FDP on** “Research Orientation” organized by DSATM Bangalore-82 from 08th to 18th September, 2020.
- **FDP on** “How to Crack VTU-PhD Course Work in Research Methodology and IPR (16PHDRM)”, organized by the Department of Management Studies, JNNCE, Shimoga on 02nd to 6th November 2020.
- **FDP on** “Emerging trends of Chemical Sciences ” Organized by the Department of Chemistry, BMSIT, Bangalore 19th to 23rd February 2019.
- **FDP on** “Recent trends in science for Versatile Engineering Applications” at Dayananda Sagar Academy of Technology and Management, Bangalore, from 25th to 27th July 2019.
- **Workshop on** “teaching Learning Methodology” organized by DSATM Bangalore-82 from 26th to 28th September, 2020.
- Workshop on “New Model Curriculum” at BIT, Bengaluru ,on May 2018.
- **FDP on** “Recent Advances in Basic Sciences for Engineering Applications” at Dayananda Sagar Academy of Technology and Management 8th to 10th January 2018.
- **Workshop on** NBA at Dayananda Sagar Academy of Technology and Management 11th to 13th December 2017.

Administrative Activity

- Science Forum Coordinator
- NBA & NAAC Coordinator
- Library advisory committee member
- Test coordinator
- Time table Coordinator

Professional Membership

The Electrochemical Society of India, IISC Campus, Bangalore-560012

Contact Details

Asst.Professor, Department of Chemistry

Dayananda Sagar Academy of Technology & Management, Udayapura, Kanakapura Road
Bengaluru-560082

Mail Id: lavyanya.r@dsatm.edu.in

My Vision

To seek a challenging and interesting job that encourages innovation and provides exposure to new technology to achieve professional and personal growth, along with the organization.