Dr. LATHA. V

M.Sc., Ph. D in Chemistry

18 Years of Academic Experience

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I hold an M.Sc. in Chemistry from Kuvempu University, Karnataka, and a Ph.D. in Chemistry from Bharathiar University, Coimbatore. I have 18 years of academic experience and am deeply passionate about teaching and student development. My teaching philosophy focuses on active classroom engagement, student participation and creating an inclusive and positive learning environment. I adapt my teaching methods to meet diverse learning needs and make complex concepts simple, interesting and practical. I am a dedicated and enthusiastic educator who enjoys inspiring young minds, encouraging critical thinking and supporting students in achieving their academic goals and becoming confident, responsible individuals.

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Areas of expertise (Subjects Handled) :

- Engineering Chemistry
- Applied Chemistry
- Analytical Chemistry
- Electrochemistry

Research Publications:

1. **"Corrosion Characterization of TiO2Particulate Reinforced Al6061 Composites in Alkaline Medium",** Moroccan Journal of Chemistry, 13(3), 1389–1404, 2025.
2. **"Corrosion Behaviour of Al2024 Metal Matrix Composites Reinforced withAl_2O_3"** International Research Journal of Multidisciplinary Technovation, 2024; 6(6): 213-222.
3. **"Corrosion Characterization of Aluminium 6061/ Tib_2 Metal Matrix Composites in Sodium hydroxide Medium",** International Journal of Trend in Scientific Research and Development, 2018; 2(4): 2810-2814.

4. **"Electrochemical studies of Aluminium6061/TitaniumDiboride Metal matrix Composites",** Journal of Applied Science and Computations, 2018; 5(11): 398-403.
5. **"Potentiodynamic Polarization Studies of Aluminium 2024/ Flyash Metal Matrix Composites"** CIKITUSI Journal for Multidisciplinary research, 2019; 6(1): 32-36.
6. **"Corrosion Characterization of Aluminium 2024 Metal Matrix Composites Reinforced with Fly Ash in Potassium Chloride Medium",** International Journal of Trend in Scientific Research and Development, 2018; 2(2): 707-710.
7. **"Study on Mechanical Behaviour of Banana Fiber Reinforced Epoxy Composites",** Asian Journal of Multidisciplinary Research, 2019; 5(1): 12-16.
8. **"Tribological Behaviour of Aluminium with Varying Percentage of Copper and Tungsten Carbide"** published in Proceedings of NCIIT 2019.

Paper Presentations:

1. **"Corrosion Characterization of SiC Particulate Reinforced Al6061 Composites in Alkaline Medium"** paper was presented at the National Conference on Advanced Research in Applied Sciences(NCARAS-2025) organized by MVJ college of Engineering, Bangalore.
2. **"Corrosion Characterisation of TiO_2 Particulate Reinforced Al6061 Composites in Alkaline Medium "** paper presented at 2nd International conference on Materials and Energy Science (ICMES-2025) organized by Aditya University, Andhra Pradesh, India on 21st and 22nd March 2025.

3. **"Investigations on corrosion studies of Al6061 reinforced with TiO_2 metal matrix composites in Hydrochloric acid medium"** paper presented at the UGC sponsored 1st international conference on "Recent Advances in Chemical, Pharmaceutical and Biological Sciences" organized by Acharya Nagarjuna University, Guntur, Andhra Pradesh, India on 5th - 7th March 2020.
4. **"Studies on Corrosion Characterization of Aluminium 2024 / Aluminium oxide Metal Matrix Composites in Hydrochloric Acid Medium"** paper presented at the UGC sponsored 1st international conference on "Recent Advances in Chemical, Pharmaceutical and Biological Sciences" organized by Acharya Nagarjuna University, Guntur, Andhra Pradesh, India on 5th - 7th March 2020.

5. **"Tribological Behaviour of Aluminium with varying Percentage of Copper and Tungsten Carbide"** paper presented at the National Conference on Industrial and Information Technologies 2019(NCIIT 2019) conducted by Cambridge Institute of Technology North Campus, Bengaluru. On 29th & 30th April 2019.
6. **"Corrosion Characterization of Aluminium 2024 Metal Matrix Composites Reinforced with Fly ash in Potassium Chloride Medium"** paper was presented at the National Conference on "Recent Advances in Applied Sciences (RAAS-2016)" organized by the AMC Engineering College, Bangalore on 25th April 2016.
7. **"Corrosion studies of Aluminim 6061- Titanium Diborate Matrix Composites"** Awarded II place for Poster presentation of in the State Level Seminar ECMESS-2015 held on 12th and 13th February 2015 at St.Joseph's College (Autonomous), Bangalore-27.
8. **"Corrosion Characterization of Fly ash reinforced Aluminium 2024 metal matrix composites"** paper was presented at the UGC sponsored state level seminar titled "Electrochemical Concepts: Materials for Energy Storage and Sensing (ECMESS2015)" conducted by St.Joseph's College (Autonomous), Lalbagh Road, Bangalore-27 on 12th and 13th February 2015.
9. Attended UGC & KSTA Sponsored Two Day National Conference on **Advanced Nanotechnology and its Applications (NCOANA2015)**, held at Maharani's Science college for women, palace road, Bangalore 0n 22nd and 23rd January 2015.
10. **"Weight loss corrosion studies of Al6061/quarts metal matrix composites in sea water"** paper presented in the 1st national conference on advances in mechanical engineering (AIM-14)" organized by T. John Institute of Technology, Bengaluru on 25th April, 2014.

FDP & Conferences attended:

1. FDP on Material characterisation Techniques organized by School of Applied Sciences MVJ college of Engineering (Autonomous) on 25th to 27th March 2025.
2. TJfdpIT-2024: Research Ideas to Patents organized by T. John Institute of Technology, Bengaluru on 19th to 23rd August 2024.
3. TJfdpIT-2024: Advanced Pedagogy Skills & 21st Century Soft Skills, Jan 2024.
4. Attended one day workshop on "New Model Cirriculum for Firs Year BE/B.Tech – CBCS Detailed syllabus(2018-2019) as per Outcome - Based Education (OBE) format including Course Outcomes(CO) and Bloom's Taxonomy" organized by VTU, Belagavi, held on 8th May 2018.

5. Attended Workshop on " Recent trends in Nanoscience and Nanotechnology" held on 2nd and 3rd May 2018 at GAT, Bangalore.
6. Attended Workshop " Recent Advances in Micro and Nano Engineering Materials and Applications" conducted on 31st Jan 2018 at Dr.AIT, Bangalore.
7. Attended one day workshop on Role of Chemistry in Higher Engineering Courses at Sambhram Institute of Technology on 20th Jan 2018.
8. Attended one week Faculty Development Programme on "Recent Advances in Basic sciences for Engineering Applications (FDP – NANO 2018) at Dayananda Sagar Academy of Technology and Management, Bangalore During 8th Jan 2018 – 10th Jan 2018
9. Attended one day Faculty Development Programme on "Recent trends in Science and Mathematics (RTSM-2017)" at GSSS institute of Engineering and Technology for Women, Mysuru on 11th January 2017.
10. Attended one week Faculty Development Programme on "Recent Advances in Chemistry of Materials for Engineering Applications" (RACMEA-2016) at BMS College of Engineering, Bengaluru-19 from 11th July to 15th July 2016.
11. Attended National workshop on Modern Tools in Material Characterization held during 31st July to 2nd August 2015 organized by Department of Science and Humanities, Faculty of Engineering, Christ University, Mysuru Road, Bengaluru-74.

Certifications: (MOOCs, Swayam, Udemy & NET) :

1. NPTEL Certificate on Corrosion Protection Methods on Feb-April 2023.
2. NPTEL Certificate on Basics of Health Promotion and Education Intervention on July-Sep 2022.

Membership/Reviewer in Professional Bodies

- IFERP Membership ID: 15444955