Dr Geetha Pinto

***Associate Dean, School of Engineering* & Associate Professor, Department of Chemistry**

ST ALOYSIUS

(DEEMED TO BE UNIVERSITY)

Mangaluru, 575003, Karnataka , India

Contact

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6/2B Cianna
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Skills

- Electrochemical workstation handling
- Research design
- Presentations and lectures
- Grant writing
- Teamwork
- Project monitoring
- Time management
- Problem-solving abilities

Dedicated academician with over 23 years of experience in higher education, specializing in Inorganic Chemistry and Analytical Electrochemistry. Renowned for inspiring and motivating students to achieve academic and personal success through engaging, student-focused teaching methodologies. Adept at developing effective instructional plans, conducting assessments, and providing meaningful feedback.

Proven expertise in leading high-impact research projects, applying advanced data analysis techniques to derive insights, and promoting innovation within academic and research teams. Known for fostering collaborative, inclusive environments and consistently meeting project milestones with efficiency and precision.

Work History

June 2024 – July 2025

Head, Research and Development Cell

St Agnes College (Autonomous), Mangalore, Karnataka, India

- Established strategic research goals for broad-scale research through acquisition of appropriate funding and program support.
- Conferred with scientists, engineers and regulators to plan or review projects or offer technical assistance.
- Directed a team of researchers, achieving significant advancements in key projects and industry recognition.

July 2007 – March 2011

JRF & SRF

National Institute of Technology, Karnataka

- Assisted in handling the Theory and lab of the B.Tech & M. Sc Chemistry Programme.
- Adaptable and proficient in learning new concepts quickly and efficiently.
- Used strong analytical and problem-solving skills to develop effective solutions for challenging situations.

June 2003- June 2007

Assistant Professor

St Aloysius College (Autonomous), Mangalore

- Contributed to departmental goals by serving on various committees focused on curriculum development, assessment strategies, and accreditation requirements.

Laboratory management

Research planning

August 2025-till date

Associate Dean, School of Engineering & Associate Professor, Department of Chemistry,

St Aloysius (Deemed to be) University, Mangalore, Karnataka, India

June 2011 to July 2025

Associate Professor and Head of Department of PG Chemistry

St Agnes College (Autonomous), Mangalore, Karnataka, India

- Was Founding Head of the department played instrumental role in formulating the theory and practicals under Autonomous System
- Established connections with liaisons to industrial stakeholders, allowing industry trends to inform research and vice versa.
- Advised professors and students on ethical concerns pertaining to research considerations.
- Edited, reviewed and supported grant applications to provide comprehensive funding for research objectives.
- Worked to plan for and assess College progress towards research excellence.
- Developed strategic plans for research department growth, contributing to overall organizational success.
- Presented research findings at national conferences, raising awareness of innovative discoveries and promoting collaboration within the industry.
- Created compelling reports summarizing key findings from various studies that informed decision-making processes at executive levels.

Built strong rapport with students through class discussions and academic advisement.

- Evaluated student performance through comprehensive assessments, identifying areas of improvement and providing targeted feedback for growth.

- Inspired critical thinking skills among students by fostering a learning environment that encouraged open-mindedness, curiosity, and intellectual exploration.
- Contributed to campus activities to promote positive image of the college.
  - Evaluated and supervised student activities and performance levels to provide reports on academic progress.
  - Strengthened relationships with colleagues by participating in collaborative projects and research endeavors.
  - Supported multidisciplinary research teams focused on scholarly publication.

June 2001 – June 2003

Lecturer

St Anns PU College, Mangalore

- Evaluated student progress through regular assessments, providing detailed feedback for improvement and growth.
- Created and designed quizzes, tests and projects to assess student knowledge.

June 1999- December 1999

Lecturer

St Philomena College, Puttur

St Aloysius College (Autonomous), Mangalore, India

- Applied innovative teaching methods to encourage student learning objectives.
- Used different learning modes and types of technology to engage students in achieving learning outcomes.
- Provided students with constructive, encouraging and corrective feedback.

June 1998- June 1999

Lecturer

Vivekananda College, Puttur

- Created materials and exercises to illustrate application of course concepts.
- Increased academic achievement by providing one-on-one mentoring and support to struggling students.
- Helped struggling students by providing support outside of classrooms and consistently checking in on progress.
- Enhanced cross-disciplinary collaboration through active participation in departmental meetings and workshops.

RESPONSIBILITIES

2012-06 Current - **Coordinator of STAR COLLEGE SCHEME**

St Agnes College (Autonomous), Mangalore, India

- Successfully coordinated the implementation of innovative student-centric and research-based activities under the **STAR College Scheme**, DBT, MST, Government of India, enhancing undergraduate science education.
- In the year 2017, Star College Scheme is upgraded to **Star College Status**, A unique distinction by the Department of Biotechnology, Government of India Fostered collaborations among departments and mentored faculty teams to design interdisciplinary programs and workshops funded by the scheme.
- Recognized for outstanding leadership and strategic planning in transforming the college's science departments into models of excellence under the DBT initiative.
- Organized and supervised numerous hands-on workshops, guest lectures, and field visits under the STAR College Scheme, significantly enriching the learning experience for undergraduate students.
- Contributed to building research aptitude among students by facilitating mini-research projects and guiding them in presenting papers at national-level conferences.
- Maintained consistent communication with the Department of Biotechnology (DBT), ensuring timely submission of reports, compliance with guidelines, and utilization of grants.
- Played a pivotal role in establishing a culture of scientific inquiry and innovation across science departments, aligning with the vision of the STAR College Scheme.

June 2021 - Current **Head, Cosmetic Chemistry laboratory**

- Established an innovative and student-driven laboratory focused on the development of eco-friendly cosmetic products using sustainable and safe ingredients.

- Designed and launched certificate courses in Cosmetic Chemistry, aimed at equipping students with both theoretical knowledge and practical skills relevant to the cosmetic industry.
- Successfully organized hands-on training programs, workshops, and demonstrations on formulating skin- and hair-care products, promoting experiential learning.
- Undertook a series of advanced training programs and workshops on Cosmetic Chemistry to ensure the effective planning and execution of curriculum and lab activities.
- Fostered interdisciplinary learning by integrating principles of chemistry, botany, and environmental science in cosmetic product development.
- Encouraged student innovation through mini-projects and competitions on eco-friendly formulations, enhancing creativity and entrepreneurship in science education.

2019-03 - Current

Advisory Committee Member – STAR College Scheme, SDM College, Ujire

- Actively serving on the advisory committee for the STAR College Scheme at SDM College, Ujire, offering strategic recommendations to enhance the quality of undergraduate science education. Key focus areas include:
- Enhancing hands-on learning through strengthened practical sessions and laboratory-based experimentation.
- Expanding access to advanced laboratory and bioinformatics facilities to enrich students' scientific exposure.
- Promoting research literacy by facilitating student access to leading life sciences journals and publications.
- Recommending the introduction of summer schools and short-term training programs for immersive, interdisciplinary learning.
- Advocating for mechanisms to monitor the number of students pursuing careers in life sciences as a measure of program impact.
- Supporting continuous assessment and refinement of initiatives through structured feedback from students and faculty.

2021
Current

Professional Engagements and Contributions

- **Delivered an Invited Talk at Manipal School:** Served as a resource person, delivering an engaging lecture on the importance of chemistry in our daily life. The session highlighted the pervasive role of chemistry in various aspects of daily routines and inspired young learners to appreciate the subject's relevance.
- **Invited Resource Person at Shri JCBM College, Shringeri:** Engaged undergraduate students with a thought-provoking session on advanced topics in chemistry, research motivation, and career pathways in the chemical sciences.
- **PhD Research Guidance Support:** Offered Consultancy to the doctoral research work of Ms. Netravati Gayakwad, Department of Chemistry, Rural Engineering College, Hulkoti, through collaborative discussions, experimental design inputs, and interpretation of data, contributing meaningfully to her academic progress.
- **Resource Person at St Aloysius PU College, Harihar:** Resource Person for the seminar on Recent Advances in Chemistry, aimed at pre-university students and teachers, with focus on new developments in green chemistry, nanotechnology, and environmental applications of chemical sciences.
- **Resource Person at Induction Programme for Postgraduate Students**: Addressed first-year postgraduate students at St Agnes Centre for Post Graduate Studies and Research, focusing on cultivating a research mindset, ethical scholarship, and leveraging academic resources for impactful research.
- **Resource Person at National Seminar (RSDC-2025), Payyanur College, Kerala:** Delivered an expert talk on Recent Developments in Synthetic and Cosmetic Chemistry, exploring the interface of academic research with industrial practices, and highlighting emerging applications in cosmetic formulations.
- **Resource Person at National Seminar, Yenepoya University, Mangalore:** Delivered an expert talk on "Sustainable chemistry, smarter formulations", on 04-11-25.
- **Doctoral Research Committee(Current)**: Expert member of Doctoral Research Committee of Ms Viji K, Research Scholar in Chemistry, Kannur, University, Kerala

2019-24 - Current

Research Supervisor for Ph.D/M.Sc Students

Mangalore University, Mangalore, India

- Providing expert mentorship to 2 Ph.D. scholars, from proposal development to thesis completion, ensuring alignment with contemporary research trends.
- Conducting comprehensive literature reviews and guiding students in designing methodologically sound and relevant studies.
- Promoting interdisciplinary research through collaboration with faculty across departments to enrich the scope and depth of research projects.
- Monitoring research progress consistently, offering constructive feedback and making timely adjustments to maintain quality and meet project deadlines.
- Actively engaged in professional development by participating in academic workshops, seminars, and conferences to stay abreast of advancements in the field.
- Cultivating a collaborative and motivating research environment, fostering academic integrity, innovation, and scholarly excellence.
- Guided more than 50 M.Sc. students for their project work

2003 - 2025

Seminar / Conferences organized

- Convener for the National Seminar titled "Prospects and Challenges in Basic Sciences".
- Convener for the National Seminar titled "Recent Advances in Chemical Sciences".
- Convener for the National Workshop titled "Microscale Experiments and ICT in Chemistry".
- Convener for the National Workshop titled "Computational & Theoretical Chemistry".
- Convener for the National Workshop titled "Applications of Nanomaterials & Faculty Development Programme".
- Convener for the International Webinar titled "Advanced Materials and Technologies".
- Convener for the Certificate Course titled "Research Methods in Chemical Sciences".
- Convener for the 30-hour Online/Offline Certificate Course on "Cosmetic Chemistry".
- Convener for the Seminar on "Organics for Flextronics".

- Convener for the National Level Intercollegiate Fest "Celestia", organized for PU and UG students.
- Convener for the National Seminar "Breaking Bonds, Building Careers: The Chemistry of Endless Possibilities".
- Convener for the Interdepartmental Competition on "Sustainable Packaging", organized by the Post Graduate Department of Chemistry.
- Convener for the National Seminar on "Strategic Insights for Scholarly Publishing: Understanding Journals and Harnessing Scopus and Web of Science".

2017-Current

NPTEL/FDP/Coursera/Certificate Courses:

Participation

- Participated in a Workshop on Research-Based Pedagogical Tools organized by St Joseph's College, Bangalore 3 days | Offline | 2017
- Completed NPTEL Certificate Course on Chemistry of Main Group Elements offered by IIT, Mumbai 12 weeks | Online | 2018
- Completed NPTEL Certificate Course on Coordination Chemistry of Transition Metals offered by IIT, Kharagpur 12 weeks | Online | 2020
- Attended FDP on Outcome-Based Education organized by St Agnes College (Autonomous), Mangaluru 5 days | Online | 2021
- Attended FDP on E-Content Development organized by St Agnes College (Autonomous), Mangaluru 5 days | Offline | 2022
- Completed Certificate Course on Cosmetic Chemistry – "Prepare Your Own Cosmetics" at St Agnes College (Autonomous), Mangaluru 30 hours | Offline | 2022
- Completed Certificate Course – Learn a Business at St Agnes College (Autonomous), Mangaluru 1 month | Offline | 2022
- Completed Soap Making Formulation Course by N.S.D.C, Skill India 6 months | Online | 2024
- Attended FDP on Energy Storage Technology and Sustainability organized by Amrita School of Physical Sciences, Coimbatore and Birds India Li-Ion Battery 5 days | Offline | 2024
- Attended FDP on Innovation and Entrepreneurship at Sahyadri College of

Engineering and Management, Mangalore, organized by AICTE and Ministry of Education's Innovation Cell 5 days | Offline | 2025

- Attended FDP on Balanced Approach to Successful Teaching at St Agnes College (Autonomous), Mangaluru 6 days | Offline | 2025

Research Funding Received From Government Funding Agencies

2017-Current

- ***UGC, Government of India (2012–2014)***
  Project: Synthesis and Characterisation of ZnO Nanoparticles
  Principal Investigator: Dr. Geetha Pinto
  Amount Sanctioned: ₹2,00,000 | Amount Sanctioned: ***₹2,00,000***

- ***UGC, Government of India (2015–2018)***
  Project: Synthesis of Functionalised Nanoparticles and Their Application to Corrosion Inhibition of Mild Steel
  Principal Investigator: Dr. Geetha Pinto
  Amount Sanctioned: ₹5,07,000 | Amount Sanctioned: ***₹5,07,000***

- ***DBT, Government of India (2019–2020)***
  Project: Conference, Travel, Exhibition and Popular Lectures (CTEP) Principal Investigator: Dr. Geetha Pinto, Amount Sanctioned: ***₹2,00,000***

- ***DBT, Government of India – Star College Scheme (2012–2017)*** *Principal Coordinator: Dr. Geetha Pinto Amount Sanctioned:* ***₹77,00,000***

- ***DBT, Government of India – Star College Status (2017–2021)***
  Principal Coordinator: Dr. Geetha Pinto
  Amount Sanctioned: ***₹1,59,00,000***
- ***St Agnes College (Autonomous) – Minor Research Project(2022–2023)***
  Principal Investigator: Dr. Geetha Pinto
  Amount Sanctioned: ***₹30,000***

Professional Affiliations

2016-Current

- External Expert: BOS/BOE Committees – St Aloysius, SDM, Ujire and Yenepoya University
- Member: I-CASH (NITTE University)
- Advisory Committee for Star College Scheme at SDM, Ujire & SDM, Honnavar

Education

2011 **Ph.D.: Chemistry**
National Institute of Technology, Surathkal

2007 **M Phil**
Alagappa University, Tamil Nadu

1998 **Master of Science**
Mangalore University

1996 **Bachelor of Science**
Vivekananda College, Puttur

1993 **PUC**
Vivekananda P U College, Puttur Karnataka, India

Research Output

Publications

- Produced a robust body of scholarly work with 19 papers published in esteemed peer-reviewed journals, showcasing dedication to advancing knowledge in the field.

Engagement and Dissemination

- Demonstrated active involvement in academic discourse by presenting research findings at over 25 conferences and seminars, fostering dialogue and collaboration within the scholarly community.

Knowledge Dissemination

- Served as a resource person for numerous conferences and seminars, contributing expertise and insights to enhance understanding and exchange of ideas among peers and participants.

Projects

- Successfully executed a minor research project funded by UGC titled "Synthesis of Functionalized Nano Particles and Its Application to Inhibition of Corrosion of Maraging Steel," with a grant of 5.04

lakhs, addressing critical challenges in material science and corrosion prevention.

Mentorship

- Provided mentorship to over 200 Master's level students, guiding them through their thesis projects, nurturing the next generation of researchers, and fostering intellectual growth and academic excellence.

Research Publications

- Pinto, G. (2009). Corrosion behaviour of 6061 Al - 15 vol. pct. SiC composite and its base alloy in sulphuric acid medium. International Journal of Electrochemical Science, 4, 1452–1468. [Q3] http://www.electrochemsci.org
- Pinto, G. (2009). Corrosion behaviour of 6061 Al - 15 vol. pct. SiC composite and its base alloy in a mixture of hydrochloric acid and sulphuric acid medium. Journal of Chemistry and Chemical Engineering, 3, 1–11. [Q2] https://www.researchgate.net/publication/267265298
- Pinto, G. (2011). Corrosion inhibition of 6061 Al - 15 vol. pct. SiC(p) composite and its base alloy in a mixture of sulphuric acid and hydrochloric acid by 4-(N,N-dimethylamino)benzaldehyde thiosemicarbazone. Material Chemistry and Physics, 125, 628–640. [Q1] https://doi.org/10.1016/j.matchemphys.2010.10.006
- Pinto, G. (2011). Adsorption and inhibitor action of 4-(N,N-dimethylamino)benzaldehyde thiosemicarbazone on 6061 Al/SiC composite and its base alloy in sulphuric acid medium. Synthesis and Reactivity in Inorganic, Metal-Organic and Nano-Metal Chemistry, 41, 127–140. [Q2] https://doi.org/10.1080/15533174.2010.538023
- Pinto, G. (2011). 4-(N,N-Diethylamino)benzaldehyde thiosemicarbazone as corrosion inhibitor for 6061 Al – 15 vol. pct. SiC(p) composite and its base alloy. Journal of Metals, Materials and Minerals, 21, 53–71. [Q2] https://jmmm.material.chula.ac.th/index.php/jmmm/issue/view/28
- Pinto, G. (2016). Electrochemical, SEM/EDX study of 3-ethyl-4-amino-5-mercapto-1,2,4-triazole as inhibitor for the corrosion of 6061 aluminum alloy in a mixture of sulphuric acid medium. Journal of Chemical and Pharmaceutical Research, 8(4). [Q3] ISSN: 0975-7384, CODEN(USA): JCPRC5
- Pinto, G. (2016). Green synthesis and characterization of zinc oxide nanoparticles. Journal of Chemical and Pharmaceutical Research. [Q3]ISSN: 0975-7384, CODEN(USA): JCPRC5
- Pinto, G. (2017). Application of metal complexes of schiff bases as an antimicrobial drug: A review of recent works. International Journal of

Current Pharmaceutical Review and Research, 9(3). [Q3]http://dx.doi.org/10.22159/ijcpr.2017v9i3.19966

- Pinto, G. (2018). Synthesis and characterization of metal complexes of schiff bases of 3-Chloro-2-Fluoroaniline. In Proceedings of National Conference on Current Advances in Chemical Sciences, 49–52. ISBN: 978-93-82694-52-6
- Pinto, G. (2019). Synthesis, characterization and study of antimicrobial activity of amino functionalised manganese oxide nanoparticles. Journal of Applicable Chemistry, 8(2), 598–605. https://www.researchgate.net/publication/334671864
- Pinto, G. (2020). Development of functionalised CuO nanoparticles for enhancing the adsorption of methylene blue dye. Cogent Engineering. [Q2] https://doi.org/10.1080/23311916.2020.1783102
- Pinto, G. (2021). The development of silane functionalized ZnO nanoparticles for enhancing anticorrosion application. Mapana Journal of Sciences. [Q4]https://doi.org/10.12723/mjs.57.4
- Pinto, G. (2023). Green approach to corrosion inhibition of mild steel in hydrochloric acid using extract from the pericarp of the fruit Tamarindus indica. Biointerface Research in Applied Chemistry. [Q3]https://doi.org/10.33263/BRIAC136.544
- Pinto, G. (2023). Synthesis of CeO_2 nanoparticles for the enhanced adsorption activity of chitosan and other applications. Asian Journal of Chemistry, 35(2), 435–440. [Q4] http://dx.doi.org/10.14233/ajchem.2023.26921
- Pinto, G. (2023). Synthesis of Functionalized a-Fe_2O_3 nanoparticles: Characterization and applications. Materials Today: Proceedings. [Q2] https://doi.org/10.1016/j.matpr.2023.05.111
- Pinto, G. (2023). Influence of cobalt doping on chemical and green synthesized magnesium oxide nanoparticles for enhanced photocatalytic evaluation, adsorption studies. Inorganic Chemistry Communications. [Q1] https://doi.org/10.1016/j.inoche.2023.111232
- Pinto, G. (2024). Investigation of silane functionalized magnetite nanoparticles for corrosion inhibition on mild steel in acidic environment. Materials International. (Accepted)
- Pinto, G. (2025). A book chapter on versatile types of organic–inorganic hybrid materials: From energy to advanced applications. In CRC Press (Taylor & Francis). (In Press)
- Pinto, G. (2025). Organic–inorganic hybrid materials for batteries. In CRC Press (Taylor & Francis). (In Press)
- Pinto, G. (2025) Analysis of surface structure and electrochemical properties of functionalized carbon nanodots as environmentally friendly corrosion inhibitors for maraging steel in hydrochloric acid. RSC advances. [Q1] https://doi.org/10.1039/D5RA07512B