REVATHI AGNIMANDALA

Assistant Professor



CONTACT

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OBJECTIVE

To continuously strive for higher achievement in life and establish myself as a perfect and accept challenging work and contribute toward the success of esteem organization by hard work and acquired skills.

AREA OF EXPERTISE

- ✓ Development of biobased polybenzoxazine for self-healing and shape memory applications.
- ✓ Isolation and characterization of Natural products.

RESEARCH INTERESTS

- ✓ Synthesis sustainable biobased Polybenzoxazine.
- ✓ Development of new class of materials for Shape memory and self-healing applications.

HANDLING SUBJECTS:

- ✓ Handling Chemistry for B.Sc., Students
- ✓ Inorganic Chemistry, Physical Chemistry, Antibiotics and Drug and Alkaloids (Natural Products) for M.Sc. Chemistry.

RESEARCH:

Doctor of Philosophy (Ph.D.,)- Submitted

Degree	**-Ph.D; Enrolled in Acharya Nagarjuna University.**
Department	-Chemistry
University	-Acharya Nagarjuna University, Nagarjuna Nagar, Guntur, Andhra Pradesh, India
Research Supervisor	-Prof. D. Ramachandran
Research Title	-**Molecular Engineering of Sustainable Bio-Based Polybenzoxazine Networks through Multiple Hydrogen-Bonding Interactions for Intrinsic Self-Healing, Shape-Memory and Mechanical Applications**

EDUCATION:

Post-Graduation

Degree and Period	**-M.Sc. Chemistry (2013) (75 %)**
University	-Acharya Nagarjuna University
Class	-First

Under-Graduation

Degree and Period	-**B.Sc. Bio-Chemistry; (2004) (73 %)**
University	- Osmania University
Class	-First

OTHER EDUCATION:

Degree and Period	- **B.Ed., Science; (2010) (56 %)**
University	- Acharya Nagarjuna University
Class	-Second
Computer courses	-**PGDCA**

PERSONAL VITAE:

Father's Name	-A. Durga Prasad
Sex	-Female
Date of Birth	-10/05/1983
Marital Status	-Married
Nationality	-Indian
Languages Known	- Telugu, Hindi and English
Permanent Address	- H. No. 2-11-40, Vadlamudi Kotaiah Street, Kaviraja park, Nandula peta, Tenali, Andhra Pradesh, India, pin code -522201.

WORKING EXPERIENCE:

- ✓ Worked Six year as an assistant professor at ASN College, Tenali, Guntur Dt. From 01.06.2013 to 30.04.2019.

- ✓ Working as an assistant professor at Vignan Degree and PG college, Guntur. Dt. From 01.06.2019 to till date.

ONLINE COURSES:

- ✓ NPTEL Online Certification course completed and entitled as "Introductory Organic Chemistry - 1" by the Prof. Neeraja Dashaputre and Prof. Harinath Chakrapani. Department of Mechanical Engineering, IIT- Kanpur. 8 weeks course. 17-Nov-2019.
- ✓ NPTEL Online Certification course completed and entitled as "Pericyclic Reactions and Organic Chemistry, 8 weeks course, form 11-Jan-2021 to 28-Feb-2021.

REFRESHER COURSES /FACULTY DEVELOPMENT PROGRAM/WEBINARS/ INTERNATIONAL/ NATIONAL CONFERENCE /WORKSHOP PAPERS PRESENTED:

1. Successfully participated in the **Faculty Development Program** on Vibe Coding using Gen AI Tools held from 27th April 2026 to 01st May 2026 for **10 hours** Organized by NIST University, Berhampur Nutan Maharashtra Institute of Engineering and Technology (NMIET), Pune G V M's Gopal Govind Poy Raiturcar College of Commerce and Economics, Ponda, Goa in collaboration with ExcelR Edtech Pvt. Ltd. 2026

2. Successfully participated in **Faculty Development Program** on GenAI & ChatGPT Applications held from 2nd March 2026 to 6th March 2026 for **05 Days**. Organized by Vardhaman College of Engineering Hyderabad, Telangana Dr. Vithalrao Vikhe Patil College of Engineering, Ahilyanagar K S School of Engineering and Management, Bangalor. 2026

3. Two-day Wokshop on Design Thinking & Innovation, conducted from 07- 08 May 2026. The program was organized by the Academy for Faculty and Staff Development (AFSD), in collaboration with the Office of Dean, Promotion & Collaborations, at Vignan's Foundation Science, Technology & Research (Deemed to be University), Vadlamudi, Guntur Dist., Andhra Pradesh, India. 2026

4. The certificate as a life member in the association of chemistry teachers in Promoting Excellence In Chemistry Education. -2025
5. Appreciation Certificate was given on active participation in ChemZeal-2024 on 30-Nov-2024, Organized by the Department of Chemistry, SRM University, Andhra Pradesh, India.
6. The certificate of Participation was given by active

participation in DST-SERB Sponsored Three days National Conference in "Frontiers in Polymer Science and Technology" organized by Department of Chemistry, School of Applied Science and Humanities, VFSTR, Vadlamudi, Guntur, Andhra Pradesh. 28th to 30th, November – 2024

7. One day Wokshop in "Advanced Polymeric materials & Computational Chemistry" under Scientific Social Responsibility (SSR) initiative organized by Department of Chemistry, School of Applied Sciences and Humanities, VFSTR, Vadlamudi, Guntur, Andhra Pradesh. On 28th March, 2024.
8. The Women's Day special Faculty Development Program on Recent Advances in Chemistry organozed by the Department of Chemistry, School of Advanced Sciences (SAS), VIT-AP University, Amamravati in collaboration with American Chemical Society held during 8th – 13th March 2024.
9. Best Oral Presentation entitled "**Facile Approach of Renewable Polybenzoxazine for Stimulated Self-Healing and Shape Memory Applications**" organised by Department of Chemistry, University of Sciences, Acharya Nagarjuna University, Nagarjuna Nagar – 522510, Guntur District, Andhra Pradesh, India on UGC Sponsored Two Days National Seminar on "**Recent Trends in Sustainable Technology and its Applications in Applied Science (STAAS-2024)",** 23rd & 24th February, 2024.
10. VFSTR in collaboration with ICAR-Indian agricultural Research institute. NewDelhi has conducted e-FDP/SDP entitled as "Frontiers in life Sciences and valude added products from Bioresources" from 12th - 17th February on 2024 from Department of Bio-Technology, VFSTR, Vadlamudi, Guntur, India.
11. One day National Webinar conducted by Sri ABR Government Degree College, Repalle, Bapatla Dt. Andhra Pradesh, India. On Role of Artificial Intelligence in Chemistry, Organized by Department of Chemistry on 24-Jan-2024.
12. A two-day National Conference on "Frontiers In Chemical Sciences" organized by Department of Chemistry, Andhra Loyola College (Autonomous), Vijayawada, Andhra Pradesh, India. On 23rd & 24th, January – 2024. Presented a paper on "Synthesis of Biobased Benzoxazine for Self-healing Properties.
13. A National workshop on Hands on Training Using In-Silico Tools for Chemical and Bio-chemical Applications was

organized by Department of Chemistry, School of Applied sciences and Humanities, VFSTR, Vadlamudi, Guntur, Andhra Pradesh, India on 14 th to 17 th October 2023.

14. Two days International Virtual Conference Organized by Eswari Engineering College, A unit of SRM group of Educational Institute on "Recent Trends In Organometallic And Material science" organized by department of chemistry on 06-07-2023 and 07-07-2023.
15. Appreciation Certificate was given on active participation and completion of quiz on the occasion of "World Intellectual property day 26-Apr-2023, Organized by Tarsadia Institute of Chemical Science, Uka Tarsadia University, Bordoli-Surat, India.
16. Certificate of Participation on "Largest Cervical Cancer Awareness Lesson" organized by Vignan's Foundation for Science, Technology and Research, Vadlamudi, Guntur, on 18th March, 2023.
17. A poster entitled "Development of Eco-Friendly Bio-Carbon Reinforced Eugenol Polybenzoxazine Composite for High Performance Applications" in the TNSCST Sponsored International Conference on "Recent Trends in Solar Cells" (ICRTSC-2023) held at Cardamom Planters' Association College, Bodinayakanur, Theni Dist., Tamil Nadu, India during 12th and 13th January 2023.
18. A webinar on "Nano Technology For Engineering Applications" organized by Vignan's Institute of Information Technology (Autonomous), Duvvada, Visakhapatnam held on 14th July 2021.
19. One day National Conference on "Nano Engineered Materials-Synthesis, Characterization & Applications" organized by Department of Basic Sciences & Humanities, Vignan's Institute of Engineering for Women, Approved by AICTE, New Delhi, Affiliated to JNTUK Kakinada, Kapu Jaggarajupeta, VSEZ Post, Visakhapatnam, Andhra Pradesh. On 10th July, 2021.
20. Ten-day Faculty Development Programme on "Outcome Based Education – A 21st Century Pedagogical Model" organized by Directorate of Academy for Faculty Development (AFD). Vignan Deemed to be University, Vadlamudi, Guntur, Andhra Pradesh from 21st to 30th June 2021.
21. 2-day National Work shop on "Chemistry in Everyday Life" conducted by Department of Chemistry, School of Advanced Sciences (SAS), VIT-AP University during 17th & 18th April

2021.

22. International Conference on "Recent Advances in Chemical, Pharmaceutical and Biological Sciences (RACPABS - 2020) on 5th to 7th March – 2020, organized by Department of Chemistry, Acharya Nagarjuna University, Nagarjuna Nagar, Guntur, Andhra Pradesh, India. Presented a Paper entitled "Isolation & Characterization of New Pentacyclic triterpenoid from *Caralluma Attenuata* Root".

23. DST Sponsored National Conference on "Advanced Chemical Materials and Processes for Technological Applications in Life Sciences, Pharmacy and Healthcare" organized by the Department of Sciences & Humanities, Vignan's Foundation for Science, Technology & Research, Vadlamudi, Guntur, Andhra Pradesh, India. on 18th to 19th August -2017.

24. Two days Faculty Development Workshop on "Classical and Instrumental Techniques in Physical Chemistry" organized by Department of Basic Sciences and Humanities, Vignan's Nirula Institute of Technology & Sciences For Woman, Guntur, Andhra Pradesh, India. 21st & 22nd July – 2014.

PUBLICATIONS:

1. Revathi, A., **Krishnadevi, K.,** Anuradha, V., D. Ramachandhran. "Design of rectifiable bio-based polybenzoxazine for stimulated self-healing and shape memory applications with antimicrobial activity" Journal of Polymer Research, 2024, Vol. 31, pp. 176, **I.F: 2.8- SCI**

2. Revathi A, Krishnadevi K, Prasanna D, Bharath P, Ramachandhran D, Supramolecularly engineered benzoxazine networks for intrinsic selfhealing and shape memory applications, Journal of Polymer Research (2026) 33,256. [Impact Factor: 3.5 (2026)]

3. Revathi A, Krishnadevi K, Prasanna D, Bharath P, Ramachandhran D, **Comparative Study of Self-Healing Performance in Epoxy-Based Polymers Through Reversible Non-Covalent Interactions.**
(In manuscript preparation)

REFERENCES:

1.Prof. D. Ramachandran

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2.Prof. V. Anuradha

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3.Dr. K. Krishnadevi

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I hereby declare that the above given details are true to the best of my Knowledge.

sincerely



(REVATHI.A)