

Name of Faculty Dr M.MAMATHA
 Designation Assistant Professor
 Nature of Job/Appointment Regular
 Date of Joining 09-11-2010
 E-mail mamatha_chm@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy	Awarded
PG	M.Sc. (Organic Chemistry)	First class with Distinction
UG	B. Sc. (BZC)	First class with Distinction

Work Experience

Teaching	21Years
Research	05 years
Industry	4.5 years
Others	--

Area of Specialization Organic Chemistry (Synthesis of drug molecules)

- Professional Memberships
1. Editorial Board Member for peer-reviewed international journal named "International Journal of Theoretical and Applied Chemistry" from January 2022 to December 2024.
 2. Life member, The Indian Science Congress Association, Membership number: L25552 since September 2014.
 3. Editorial board member of open access journal named "Far East Journal of Chemistry" from march 2018 to December 2021.
 4. Lifelong member of Indian Society for Technical Education (ISTE) with membership number LM 134335 from March 2022 onwards.
 5. Lifelong Member of IAENG (International Association of Engineerings. Membership number: 303065 from Jan 21st 2022 to till date.
 6. contributed as member of the Reviewer Committee in "3rd International Conference on Information Management & Machine Intelligence (ICIMMI-2021) " held during December 23-24, 2021 at Poornima Institute of Engineering & Technology, Jaipur, Rajasthan.
 7. Scientific advisor for Anax Laboratories, Nacharam since June 2018.

Responsibilities held at Institution Level

Responsibilities held at Department Level

1. Member, Board of Studies from 2013 to till date.
2. NBA Coordinator from 2016 to till date.
3. IQAC member from 2016 to till date.
4. ARIIA, IIC member from 2016 to till date.
5. NAAC coordinator from April 2022 onwards
6. Departmental Research Committee member from March 2025.

Research Guidance

Awards Received

1. Best Teacher Award" for performing unique, commendable, resourceful and consistently significant contribution in the field of education by 2nd National Educators & Researchers Convention & Awards 2020.
2. Bharat Ratna Dr Abdul Kalam Gold Medal Award for individual achievement and national development" by GEPR, Tamilnadu India, 2018.
3. Recipient of 3 years Senior Research fellowship under CSIR 2000
4. Recipient of 2 years Junior Research fellowship under CSIR 1998.
5. Qualified in June NET –UGC 1998& December NET -

	CSIR,1998.
	6. Qualified in SLET,1997
	7. GATE All India 416 rank in1996
	8. Pingali Bhanumathy prize for securing highest marks inB.Sc part II, 1994
	9. Pingali Bhanumathy prize for securing highest marks in B.Sc Botany,1994.
Courses Handled at Under Graduate / Post Graduate Level.	Engineering chemistry, Applied chemistry, Organic chemistry, Inorganic chemistry, Physical chemistry and General chemistry.
No of papers published	National: 2 International: 10
Patents	-
Technology Transfer	-
Invited Speaker	-
No. of Books/Chapter Published with details	1. Book Title: "Frontiers of Chemical Sciences" , Chapter Title: Green Chemistry and Environmental Sustainability, Chapter 14, pp 87-91, 2022, Navanila Maruthi Publication, Coimbatore, India 642001, ISBN 978-81-951871-2-6. 2. Author of book titled "Applied Chemistry" ISBN: 978-81-967493-8-5, Year 2023 3
Details of Short-Term Training Programs/FacultyDevelopmentProgram s/Seminars/Workshops.Other Trainings (Attended and/or organized).	<ol style="list-style-type: none"> Given a paper presentation titled "Synthesizing Benzo(H) Quinazoline-4(3H) ones under microwave conditions at two-day National Seminar on "Science without Borders: A Multidisciplinary Vision for the Future" held on 21-22 march 2025 organised by the faculty of Science, Dr B.R.Ambedkar Open University, Hyderabad. Participated in the AICTE Recognized Faculty Development Programme on Applications of IOT- Project Based Conducted by Information Management and Emerging Engineering Department from 10/02/2025 to 14/02/2025 (One Week) at Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana by National Institute of Technical Teachers Training and Research, Chandigarh, Ministry of Education, Government of India. Participated in the AICTE Recognized Faculty Development Programme on Enhancing Research Capabilities for Academic Career Progression Conducted by Entrepreneurship Development and Industrial Coordination Department from 17/03/2025 to 21/03/2025 (One Week) at Chaitanya Bharathi Institute of Technology, Hyderabad,Telangana by National Institute of Technical Teachers Training and Research, Chandigarh, Ministry of Education, Government of India. Received Certificate of Appreciation for organising 2nd International Conference on Biotechnology and Interdisciplinary Technologies (iCBIT-2024)held during 13-14 December 2024 at CBIT, Hyderabad, India. Participated in two days online workshop on the "Latest Teaching Methodologies" held on 3rd and 4th Octoer 2024 organised by School of Pharmacy, Anurag University in association with Association of Pharmaceutical Teachers of India ,Telangana branch. Participated in 3-Day Online National Level Faculty Development Program on "Foundational Sciences: The Cornerstones of Engineering" organized from 8th August 2024 to 10 August 2024 by Department of Freshman Engineering at Sphoorthy Engineering College, Hyderabad. Participated in IP Awareness/Training program under National Intellectual Property Awareness Mission organized by Intellectual Property Office, NIPAM, Government of India on 6th August 2024. Participated in the AICTE Recognised Faculty Development Programme on "IOT Enabled Embedded Systems" conducted

- by Electronics and Communication Engineering Department at CBIT in collaboration with National Institute of Technical Teachers Training and Research, Chandigarh, Ministry of Education, Government of India from 22nd to 26th July 2024
7. Participated in a 30 hours Faculty Development Program on "Transforming Innovation and Entrepreneurship for patient care" conducted by IIMT college of Pharmacy, Greater Noida from 1st July to 5th July 2024.
 8. Participated in the NeW IPR 2024 e-Workshop organized by Innovative Technology Enabling Centre (InTEC), CSIR-IMMT, Bhubaneswar during June 24-29, 2024.
 9. Completed One Week Virtual International Faculty Development Programme on 'Fundamentals and Advances of Magnetic Materials (FAMM-2024)' from May 20-24, 2024 organized by the Department of Physics, Chaitanya Bharathi Institute of Technology, Hyderabad, India.
 10. Participated in a National Level One Week Faculty Development Programme (Hybrid) on "National Education Policy 2020 - Challenges in implementation in Higher Education" organized by Department of EEE, IT and Physics, Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana in association with IEEE Education Society Student Branch Chapter CBIT and IEEE Young Professionals from 18th March 2024 to 23rd March 2024.
 11. Participated in National Level One Week Faculty Development Programme on "Deep Learning Solutions in Healthcare" organized by Department of Information Technology, Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana in association with CBIT IEEE-RAS student branch chapter and SCRS student chapter from 19th February 2024 to 23rd February 2024.
 12. Participated in One week online FDP on "Research Methodologies and Publication Strategies" from 12th to 16th February 2024, organized by School of Management Studies, Chaitanya Bharathi Institute of Technology (Autonomous), Gandipet, Hyderabad- 500 075, Telangana, India.
 13. Participated in One week online FDP on "Empowering Educators : AI Tools for Engineering and Technology (AITET-2024)", organized by Department of Chemical Engineering, Chaitanya Bharathi Institute of Technology (A), Hyderabad, during 29th January 2024 - 2nd February 2024.
 14. Participated in One Week Online Faculty Development Programme on Science and Developments in Nanobiotechnology organized by the Department of Biotechnology, Chaitanya Bharathi Institute of Technology (Autonomous) in association with Microbiologists Society India (MBSI) from 29th January 2024 to 2nd February 2024.
 15. Participated in two days online workshop on the "Latest Teaching Methodologies" held on 3rd and 4th October 2024 organised by School of Pharmacy, Anurag University in association with Association of Pharmaceutical Teachers of India , Telangana branch.
 16. Participated in Independence Day Webinar on Creating IP Led Academic Spinoffs conducted by Turnip innovations and Qualcomm facilitated by Mr Nitin Sharma on 12th August 2024
 17. Participated in webinar on "Smart and Actionable: Spectroscopy PAT-Supported Process Operations" organised by C & EN, ACS Chemistry of Life on 8th August 2024.
 18. Participated in webinar on "Automated Preparation of Oligonucleotide-Loaded Lipid Nanoparticles Using Andrew+™ " organised by C & EN, ACS Chemistry of Life on 9th March 2024.
 19. Participated in One week online **Faculty Development Program** on "Quality Education through OBE" organized by Chaitanya Bharathi Institute of Technology(Autonomous), Gandipet, Hyderabad-500 075, Telangana, India., in association with IEEE Education Society Student Branch Chapter CBIT during 22nd - 27th January 2024
 20. Participated in one week **Faculty Development Program** on "Accelerate Research" conducted by Department of Information Technology, Anurag university during 14th - 18th March 2023.
 21. Participated in five days National Level Virtual **Faculty Development Program** on "Research Methodology"

organized by PG & Research Department of Commerce, SKPAS college for women in association with IQAC from 13th Feb to 17th Feb 2023.

22. Successfully Finished **Training program** on “Basics of IPR Course (equivalent 10-hours workload) organized by Turnip innovations from 22nd to 28th November 2022.
23. Participated in IP **Awareness/Training program** under National Intellectual Property Awareness Mission on 4th November 2022 Organised by Intellectual Property Office, India under NIPAM (National IP Awareness Program).
24. Completed a one week online **Faculty Development Program** on “Role of Chemistry in Advanced Engineering Materials (RCAEM-2022)” organised by Department of Chemistry, Vasavi College of Engineering (A), Hyderabad from 10th to 15th October 2022
25. Participated in IP **Awareness/Training program** under National Intellectual Property Awareness Mission on September 27, 2022 Organised by Intellectual Property Office, India under NIPAM (National IP Awareness Program)
26. Participated in one-day online **workshop** in Intellectual Property Commercialisation conducted by Turnip Innovations Pvt Ltd, Kolkata on 21st Jan 2023
27. Participated in online quiz on “Constitution of India” conducted by Government of India, Ministry of External Affairs on 28th November 2022
28. Participated in **INTERNATIONAL SYMPOSIUM ON “NEW TRENDS IN IOT** organized by IcfaiTech, The ICFAI University, Jaipur in association with NASSCOM FUTURE PRIME Skills and IE T(UK) on November 18, 2022
29. Successfully completed SWAYAM NPTEL Online Certification Course on “Chemistry of Main Group Elements” conducted during Jan-Apr 2022, 12 Week course by IIT Bombay.
30. Participation in the 5-Day **Faculty Development Programme** on “Enhancing Research Eco-system in the Campus” organized by the Research & Development Cell MALLA REDDY ENGINEERING COLLEGE, MEDCHAL (M) TELANGANA – 500100 from 22nd to 26th August 2022.
31. Participated in the AICTE Recognized **Faculty Development Programme** on a “Smart Materials Processing and Applications” Conducted by National Institute of Technical Teachers Training and Research, Chandigarh, under Ministry of Human Resource Development, Government of India, Applied Science Department from 25/07/2022 to 29/07/2022 (One Week) at CBIT, Gandipet, Hyderabad.
32. Participated in IP **Awareness/Training program** under National Intellectual Property Awareness Mission on 28th June 2022 organised by Intellectual Property Office, NIPAM, Government of India.
33. Successfully completed SWAYAM NPTEL-AICTE **Faculty Development Program** funded by MOE, Government of India on “Chemistry of Main Group Elements” conducted during Jan-Apr 2022, 12 Week course by IIT Bombay.
34. Participated in the International Virtual One Week **Faculty Development Program** on Tools and Techniques in Research Organized by Amar Singh College, Cluster University Srinagar, Gogji Bagh, Srinagar, Jammu and Kashmir, India in collaboration with Cape Comorin Trust, India from 07th to 13th March 2022.
35. Attending International Level **Faculty Development Programme** titled “INNOVATIVE APPROACHES FOR OUTCOME BASED TEACHING LEARNING IN HIGHER EDUCATION” from 21st to 27th February 2022 organized by Ajeenkya DY Patil University and Research Culture Society
36. Has successfully completed Power and Beauty Entwined: Accelerating Chemistry Research with Modern Tools hosted by C & en and sponsored by Perkin Elmer on 21st Feb 2022.
37. Successfully completed SWAYAM NPTEL-AICTE **Faculty Development Program** funded by MOE,

- Government of India on "Chemistry of Main Group Elements" conducted during Jan-Apr 2022, 12 Week course by IIT Bombay.
38. Participated in the International Virtual One Week **Faculty Development Program** on Tools and Techniques in Research Organized by Amar Singh College, Cluster University Srinagar, Gogji Bagh, Srinagar, Jammu and Kashmir, India in collaboration with Cape Comorin Trust, India from 07th to 13th March 2022.
 39. Attending International Level **Faculty Development Programme** titled "INNOVATIVE APPROACHES FOR OUTCOME BASED TEACHING LEARNING IN HIGHER EDUCATION" from 21st to 27th February 2022 organized by Ajeenkya DY Patil University and Research Culture Society
 40. Has successfully completed Power and Beauty Entwined: Accelerating Chemistry Research with Modern Tools hosted by C & en and sponsored by Perkin Elmer on 21st Feb 2022.
 41. participated in the International **Virtual Faculty Development Program** on Enhancing Research and Writing organized by Research and Development Cell, AVP College of Arts and Science, Tiruppur, Tamil Nadu, India in collaboration with Cape Comorin Trust, India from 07.02.2022 to 13.02.2022 February 2022.
 42. successfully completed ISTE approved Online/SF-STTP/FDP Programme on "Polymer Composite" held during 03.01.2022 to 07.01.2022 organized by St. Francis Institute of Technology, Mumbai, Maharashtra in association with Indian Society for Technical Education Shaheed Jeet Singh Marg New Delhi – 110 016.
 43. Participated in 5-day **Faculty Development Programme** on "Advance Concepts in Chemistry" under DBT-Star College Scheme, organized by Department of Chemistry, Bhavan's Vivekananda College of Science, humanities & Commerce, Sainikpuri, Secunderabad from 22nd-26th November 2021
 44. Participated in **Faculty Development Programme** on "Innovative Practices in Chemical Sciences" Organized by Department of Chemistry in collaboration with Sarojini Naidu Vanitha Mahavidyalaya from 23 - 28 September 2021.
 45. Participated in Seven Days Online **Faculty Development Programme** on Online Chemistry Teaching organized by the Department of Chemistry, MES Ponnani College in association with SIAS Research Forum during 10th -16th July 2021.
 46. **presented a research paper** entitled (Oral) "Chemistry of 1,1,1,5,5,5-trifluoro methyl ketone and its reaction with Grignard's reagent." in the "International e-Conference on Developments in Chemical, Biological and Environmental Sciences (DCBES-2021)" during June 28-30, 2021 jointly organized by GITAM School of Science, Hyderabad & GITAM Institute of Science, Visakhapatnam
 47. Participated in the one week **faculty development on "Research Practices in Thermo-Fluid and Renewable Energy Systems"** organised by department of mechanical engineering, Sreenidhi Institute of Science and Technology, Yamnampet, Ghatkesar, Hyderabad, Telangana 501301, from 28th June 2021 to 3rd July 2021
 48. Participated in one week **FDP** on "IPR and patent prosecution organised by dept. of computer science and engineering in association with Institution Innovation Council (IIC), MVSREC, Hyderabad from 24th May to 28th May 2021
 49. **Coordinator** for for one week **Faculty Development program** conducted by Department of Chemistry, CBIT from 8th to (12th March 2021 on "Recent Trends in Advanced Materials Science and Engineering Technology"
 50. Completed an online **COURSERA COURSE** in "Introduction to Molecular Spectroscopy" by School of Chemistry, University of Manchester with 90.67% grade

- on 29th Jan 2021
51. Attended 1-hour Independence Day **Webinar** on "IPR:Key to India's Future Journey" conducted by Head IP and Research Collaboration, Tata Steel on 14th Aug, 2021.
 52. Attended live **webinar** on IPR "Strategy and Cleantech Innovation conducted by Turnip Innovations Pvt. Ltd. on 16th July 2021.
 53. Attended "Integrating Scopus in Research Workflow" at Elsevier on Wednesday 14 July, 2021 organised by Researcher Academy on Campus
 54. Participated in the 2-day National **Workshop** on "Chemistry in Everyday Life" during 17th -18th April 2021 conducted by the Department of Chemistry, School of Advanced Sciences (SAS), VIT-AP University Faculty coordinator for organizing guest lecture on "Conservation of water and Environmental Sustainability" under Institute Innovation Council, CBIT on 30th January, 2020.
 55. **Presented a poster** on for the International Conference on Drug Discovery 2020 at BITS-Hyderabad, 29th Feb - 2nd Mar 2020
 56. **12-week NPTEL Online Certification course** on "Principles of Organic Synthesis" from July-October 2019 under Swayam Portal.
 57. **12-week NPTEL-AICTE Faculty Development Program** on "Principles of Organic Synthesis" from July-October 2019 under Swayam Portal.
 58. One week **Short Term Training Programme** through ICT Mode on NBA Accreditation organized by National Institute of Technical Teachers Training and Research, Kolkata from 22nd to 26th April 2019.
 59. Two weeks Science Academics **Refresher Course** on "Upskilling Chemistry Teachers on Latest pedagogical Tools for Impactful Teaching" organized by Science Academics and department of science and Humanities at VFSTR Vignana Deemed University, from 27th November to 11th December 2018.
 60. UGC sponsored 45th **Orientation Course** conducted by JNTU, Hyderabad from 11th July to 8th August 2016
 61. One day Faculty Development Programme on "Teaching with Technology" organized by IQAC, Sarojini Naidu Vignana Deemed University, Hyderabad on 30th December 2019.
 62. Participated in one day **workshop** on "Recent Trends in Materials and its Applications in Engineering" organized by department of Physics, CBIT on 20th November 2019.
 63. "Two Day Rural Immersion **Training Programme** on Swachhatha Action Plan and Community Engagement" held on 14th and 15th November 2019 organized by Mahatma Gandhi National Council of Rural Education, Department of Higher Education, MHRD, Hyderabad in collaboration with CBIT, Hyderabad, Telangana.
 64. Tech Tara" organized by dept of CSE, CBIT on 6th and 7th March 2019.
 65. One day symposium on "Significance of Sanskrit for Technological Research" organized by Geervana Bharathi of Technology on 8th September 2018.
 66. One week **Faculty Development Workshop** on "Teaching and Learning Chemical Spectroscopy through hands on experience" organized by Department of Chemistry, NIT Warangal during 11th to 16th September 2017.

Details of Journal Publications/ Conferences (National and International) from the year 2017

International /National Journals from the Year 2017:

1. Analysis of abrasive wear characteristics in glass fiber reinforced epoxy composites: Optimization and mechanical property investigation" AIP Conference Proceedings, RESEARCH ARTICLE | APRIL 11

- 2025, AIP Conf. Proc. 3270, 020206 (2025).
- Published a research paper titled ""CHALLENGES AND IMPACT OF GREEN CHEMISTRY CONCEPTS ON SUSTAINABLE ENVIRONMENTAL DEVELOPMENT", European Chemical Bulletin., ISSN 2063-5346, April 2023; Volume -12 , Special Issue-1(Part-B) : Page: 1923-1937.
 - Published a research paper titled "The Development of Terminal Alkynes in Water Using DEMATEL Method" in Journal on Materials and its Characterization, Volume 1 Issue 1, September 2022, Page No: 17-27, ISSN:2583-6412.
 - "Synthesis of 2-alkyl/aryl-3-aminobenzo[h]Quinazolin-4(3H)-ones and 2-alkyl/aryl-3-arylideneimino benzo[h]Quinazolin-4(3H)-ones" paper was published in Gedrag & Organisatie Review, Volume 35, Issue 2 (April-June) 2022, ISSN /eISSN : 0921-5077 / 1875-7235.
 - "Heterocycles based on naphthalene-A review"; GEDRAG & ORGANISATIEREVIEW - ISSN:0921-5077; VOLUME 34 : ISSUE 02 - 2021 (April - June). Pg 811 - 855.
 - Mamatha M, Narendra Babu, K Kiran & H Mastan, (2021), "Chemistry of 1,1,1, -Trifluoro methyl ketone and its reaction with Grignard reagent"; GEDRAG & ORGANISATIE REVIEW - ISSN:0921-5077; Volume 34, Issue 2 (April-June 2021), pg 66-73.
 - Mamatha M, (2021), Heterocycles based on naphthalene-A review"; GEDRAG & ORGANISATIE REVIEW –ISSN:0921-5077; VOLUME 34, ISSUE 02 - 2021 (April - June).
 - Mamatha M, (2020), "Microwave Assisted One Pot Synthesis of Benzo[h] Quinazolin-4(3H)-ones", Science and Engineering Journal, ISSN: 0103-944X; Volume 24; Issue 11, 2020, S. No 3, page 27-30.
 - Mamatha M, Narendra Babu, K Kiran & H Mastan, (2020), "Synthesis and Characterization of Impurity F in 4-amino-N-(5-methylisoxazol-3-yl) benzene sulfonamide drug synthesis", World Journal of Pharmacy and Pharmaceutical Sciences, Volume 9, Issue 3, 889-893, 2020.
 - Mamatha M, Narendra Babu, K Kiran & H Mastan, (2019), "Synthesis of Prochloroperazine related compound A impurity formed during chlorpromazine drug preparation", Journal of Pharma Research, vol 8, Issue 5, 2019, ISSN 2319-5622, page 66-73.

Papers presented at International Conference from the Year 2017:

- Given a paper presentation titled "A Greener way of synthesizing Benzo(h) Quinazolin-4-(3H)-ones under microwave conditions" in a National Conference on "Recent Advances in Green & Sustainable Chemical Sciences" sponsored by Telangana State Council of Higher Education organized by Department of Chemistry, St Pious X College for Women, Hyderabad held on 20-21 January 2023.
- Presented a paper on "Quality Enhancement in Higher Education: Role of a teacher" in 1st International conference on Academic Research in Developing Countries held from 29th August to 30th August 2022
- Given a Paper Presentation (Oral) titled "Chemistry of 1,1,1,5,5,5-trifluoro methyl ketone and its reaction with Grignard's reagent." in the "International e-Conference on Developments in Chemical, Biological and Environmental Sciences (DCBES-2021)" during June 28-30, 2021 jointly organized by GITAM School of Science, Hyderabad & GITAM Institute of Science, Visakhapatnam.
- Given a Paper Presentation (Oral) titled "Green Chemistry and Environmental Sustainability" UGC Sponsored National Seminar on "Human Rights & Environmental Protection" conducted by department of Chemistry KRR Govt, Science College, Kodad on 20th & 21st January, 2017
- Given a Paper Presentation (Oral) titled "Chemistry of 1,1,1,5,5,5-trifluoro methyl ketone and its reaction with Grignard's reagent." in the "International e-Conference on Developments in Chemical, Biological and Environmental Sciences (DCBES-2021)" during June 28-30, 2021 jointly organized by GITAM School of Science, Hyderabad & GITAM Institute of Science, Visakhapatnam.

