

Name of Faculty Dr .K. RAMESH
 Designation Assistant Professor
 Nature of Job/Appointment Regular
 Date of Joining 05 - 07 - 2007
 E-mail kramesh_chm@cbit.ac.in



| Education Qualifications | Name of the Degree | Class |
|--------------------------|----------------------------------|---------|
| Ph. D | Doctor of Philosophy (Chemistry) | Awarded |
| PG | M.Sc.(Physical Chemistry) | First |
| UG | B. Sc (M.P.C) | Second |

Work Experience

Teaching 18 Years (Includes research experience)
 Research 08 Years
 Industry --
 Others --

Area of Specialization Physical Chemistry

- Professional Memberships
- Life Member, Indian Science Congress (ISC) L34636.
 - Community Member, American Chemical Society (ACS) 32372804.
 - Royal Society of Chemistry Affiliate member (RSC) 715063
- Responsibilities held at Institution Level
- Co-in-Charge, Academic and Examinations Cell (from 14.03.2022 to till date).
 - Member of Women Development Cell.
- Responsibilities held at Department Level
- Member - Board of Studies from 2013 to till date
 - NAAC- Departmental coordinator from 2012 to 2021
 - News letter - Departmental coordinator from 2010 to till date
 - Website - Departmental coordinator from 2012 to till date
 - Member- Disciplinary committee.
 - Mentor for Induction program to the 1st Year Students
 - Class In-charge/Teacher.

Research Guidance --

- Awards Received
- Received the Best Faculty Award for Research Contribution in Science and Technology by Nature Science Foundation, Coimbatore, Tamilnadu, Approved and Registered by the Ministry of MSME, Govt. of India.
 - Received the Best Teacher Award for Teaching-Learning by Chaitanya Bharathi Institute of Technology (A), Hyderabad on the occasion of the teachers day celebration on 05-09-2022

Courses Handled at Under Graduate / Post Graduate Level. Engineering Chemistry, Applied chemistry and Physical chemistry.

No. of Papers Published National Journals –01 International Journals – 26
 National Conference – 01 International Conference – 02

Projects Carried out --

Patents --

Technology Transfer --

Invited Speaker --

- No. of Books/Chapter Published with details
- Book Title: "Essentials of Nano Technology", 2022, Scientific International Publishing House (SIPH), 32B, Mazhuppan Street, Mannargudi, Tamilnadu, India- 614001, ISBN: 978-93-5625-476-3.
 Authors: Dr. Ramesh kola, Mrs. Jenifer Robinson, Dr. Sujith Tewari, Dr. Vivekananda B. Jadhav.
 - Book Title: "Engineering Chemistry", 2022, SciTech Publication Pvt.Ltd, Chennai, India-600059, ISBN: 978-93-85983-98-6.
 Authors: Dr. Kishor Palle, Dr.V. Shanthi, Dr. A. Kishore Kumar, Dr. K. Ramesh.

3. Book Titled "A TO Z Organic Named Reactions", 2021, Integrated Publication, Delhi, India-110085 ISBN: 978-93-90471-61-4.
Authors: Dr.K. Ramesh, Dr. Jagadeesh Kumar Ega, Dr. S. Kavitha.
4. Book Title: Nanotechnology-Based Additive Manufacturing, Chapter Title: Nanomaterials and Nanostructures in Additive Manufacturing: Properties, Applications, and Technological Challenges.
Authors: D. Saritha* Sathish K. Kurapati, N. Mahendar Reddy, R. Sujithra, Ramesh Kola, Gubbala V. Ramesh Chapter 3, pp 53-102, December 23, 2022, Print ISBN:9783527349845 |Online ISBN:9783527835478 (Wiley Publishers).
5. Book Title: Advanced Nanomaterials for Point of Care Diagnosis and Therapy, Chapter Title: Carbon nanomaterials: Application as sensors for diagnostics.
Authors: Naveen K. Dandu, Ch. G. Chandaluri, Kola Ramesh, D. Saritha, N. Mahender Reddy, Gubbala V. Ramesh. Elsevier, 2022, Chapter 11, pp 211-248, ISBN 9780323857253, <https://doi.org/10.1016/B978-0-323-85725-3.00015-5>.
6. Book Title: 2D Functional Nanomaterials: Synthesis, Characterization and Applications, Chapter Title: 2D Nanomaterials for Photocatalysis and hot electrocatalysis.
Authors: Gubbala V. Ramesh, * N. Mahendar Reddy, Muvva D. Prasad, D. Saritha, Kola Ramesh. Wiley-VCH, Weinheim, Chapter 22, pp 383-411, 2021, ISBN: 9783527823949, 3527823948.

Faculty Development Programs Attended

1. Participated in the AICTE Recognized Short Term Course on "2D Nanomaterials: Potential & Applications" through ICT, at Chaitanya Bharathi Institute of Technology, Hyderabad (Telangana) from 17/10/2022 to 21/10/2022 (One Week) Organized by Applied Science Department, NITTTR, Chandigarh.
2. Participated in the Short Term Course on "RECENT ADVANCES IN CHEMICAL SCIENCES" Organized by the Department of Chemistry, SNIST, Hyderabad in association with CCE, NIT Warangal, from 10/10/2022 to 14/10/2022.
3. Participated in One Week National Online Faculty Development Programme on "ICT Tools for Effective Teaching and Learning FDP ICT-2022" Organized by Kamla Nehru Mahavidyalaya, Nagpur, from 23/05/2022 to 28/05/2022.
4. Participated in International Faculty Development Programme on "Combating the Global Pandemic Through Motivation Using Life Skills" organized by Guru Shree Shantivijai Jain College for Women - FDP Board on 4th April 2022.
5. Participated in UGC-STRIDE Sponsored one-week National Level Faculty Development Programme on "Carbon Capture and Storage" organized by the Department of Chemistry, Central University of Tamil Nadu, Thiruvavur, India, from 21-02-2022 to 25-02-2022.
6. Participated in the National Level Faculty Development Programme on "Developing Statistical Skills for Enhancing Research" under Rashtriya Uchchatar Shiksha Abhiyan (RUSA), jointly organized by Centre for Skill Development (CSD) and Teaching Learning Resource Centre (TLRC), Symbiosis College of Arts & Commerce, Pune, India, during 27-01-2022 to 03-02-2022.
7. Participated in International Faculty Development Programme on " Emerging Trends in Nano Technology (ETNT-2021)" Organized by the Department of Basic Science, Vishnu Institute of Technology (A), Bhimavaram, in association with Geosciences division, Physical Research Laboratory (PRL), Ahmadabad, during 09-11-2021 to 13-11-2021.
8. Participated in Faculty Development Programme on " Role of Chemistry in Advanced Engineering Materials-2021" (RCAEM-2021)" Organized by Department of Chemistry, Vasavi College of Engineering(A), Hyderabad, during 25-10-2021 to 29-10-2021.
9. Participated in One week online Faculty Development Program on "Applied Chemistry to Design Smart Materials for Device Applications" Organized by Department of Freshman

Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops.Other Trainings (Attended and/or Organized).

- Engineering, Geethanjali College of Engineering & Technology, Hyderabad, during 20-09-2021 to 24-09-2021.
10. Participated in One week online Faculty Development Program on "Changing Dimensions of IPR in India – An Intellectual Deliberation" Organized by IQAC of Jain College, Bengaluru in collaboration with KSCST, during 12-08-2021 to 17-08-2021.
 11. Participated in international webinar on "Introduction to Scientific Article Structuring" organized by Journal Club, Telangana Social Welfare Residential Degree College for Women, Suryapet, held on 11-08-2021.
 12. Participated in One week online Faculty Development Program on "Recent Research Advances Materials: Water and Waste Water Treatment" Organized by Bharat Institute of Engineering and Technology & Indian Ceramic Society, Hyderabad, during 02-08-2021 to 07-08-2021.
 13. Participated in the seminar RSC-IISER Desktop Seminar with ChemComm held on 06-08-2021, Organized by RSC Publishing webinar, Royal Society of Chemistry.
 14. successfully completed Online National Level Short Training Program (STTP) on "Outcomes-Based Teaching, Assessments and Evaluation" Jointly organized by NBN Sinhadad School of Engineering, Pune and Inpods Inc., USA from 02-08-2021 to 04-08-2021.
 15. Participated in the online AICTE Recognized one week FDP on "Nanomaterials and Thin Films" Organized by Applied Science Department, NITTTTR, Chandigarh, during 26-07-2021 to 30-07-2021.
 16. Participated in the C&EN's webinar on " Synthetic Carbon Adsorbents for challenging separations & purifications" held on 20-07-2021, Organized by Mac-Mod Analytical, American Chemical Society, 1155 Sixteenth Street NW | Washington, DC 20036.
 17. Participated in Two days International Conference on "Recent Advances in Chemical, Physical and Biological Sciences", Organized by Department of Chemistry, Nabira Mahavidyalaya, Katol and Association of Chemistry Teacher, Mumbai, India during 29-06-2021 to 30-06-2021.
 18. Participated in the ACS Publications Symposium on "Innovation in Measurement Science" Organized by American Chemical Society in partnership with the ACS division of Analytical Chemistry, 1155 Sixteenth Street NW | Washington, DC 20036, during 22-06-2021 to 25-06-2021.
 19. Participated in the International Workshop on "Stress & Coping: Strategies to De-Stress" Organized by Organized by Women Empowerment Cell, GITAM (Deemed to be University), Visakhapatnam, AP, India during 12-06-2021 to 13-06-2021.
 20. Participated in One-week Faculty Development Programme on "Research Methodology in Humanities & Social Sciences" Organized by Department of Chemistry, Lords Institute of Engineering and Technology, Hyderabad., during 29/05/2021 to 03/06/2021.
 21. successfully completed 2 weeks online Patent Information Course, Organized by Turnip Innovations and facilitated by Dr Rahul Kapoor, Mumbai, India during 10/05/2021 to 24/05/2021.
 22. Participated in National Level One-week Faculty Development Programme on Research Methodology In Humanities & Social Sciences" Organized by Department of Chemistry Amar Sewa Mandal's Kamla Nehru Mahavidyalaya, Nagpur, during 26/04/2021 to 01/05/2021.
 23. Participated in Three-day International Conference on Advanced Materials Behavior & Characterization, organized

by Mattest Research Academy, Chennai, Tamil Nadu, India during 24-04-2021 to 26-04-2021.

24. Participated in National Level One-week Faculty Development Programme on Research Methodology In Humanities & Social Sciences” Organized by Department of Chemistry Amar Sewa Mandal’s Kamla Nehru Mahavidyalaya, Nagpur, during 26/04/2021 to 01/05/2021.
25. Participated in the International eWorkshop on Science and Technology of Emerging Materials (eSTEM – 21) – Virutal Mode Organized by the Department of Science and Humanities, Chettinad College of Engineering & Technology, Tamilnadu, India, during 19-04-2021 to 21-04-2021.
26. Participated in Two-day International E-Conference on Advances in Chemical Research 2021 organized by Department of Chemistry, Institute of Science, GITAM (Deemed to be University), Visakhapatnam, AP, India, during 19-04-2021 to 20-04-2021.
27. Participated in Three-day International Workshop on “Energy Storage Technologies for E-Mobility (IWESTE-2021)” Organized by department of Chemistry, SRMIST, India, during 25-03-2021 to 27-03-2021.
28. Participated in One-week online Faculty Development Program on “Recent Trends in Advanced Materials Science and Engineering Technology (RTAMSET-21)” Organized by Department of Chemistry, Chaitanya Bharathi Institute of Technology (A), Hyderabad-500075, during 08/03/2021 to 12/03/2021.
29. Participated in International webinar on “Innovations in Science & Technology (IWIST-2021)” held on 27-02-2021, jointly organized by Department of Chemistry, Smt.Narsamma Arts, Commerce & Science College, Amravati & Association of Chemistry Teachers (ACT) Mumbai.
30. Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on " "Quantum Computing"" at Chaitanya Bharathi Institute of Technology, Hyderabad, during 18/01/2021 to 22/01/2021.
31. Participated & completed successfully NPTEL-AICTE 12 weeks Faculty Development Programme on " Co-Ordination Chemistry " funded by ministry of HRD, Govt of India, during September to December-2020.
32. Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on "Molecular Manufacturing" at Chaitanya Bharathi Institute of Technology, Hyderabad, during 19/10/2020 to 23/10/2020.
33. Participated First International Virtual Conference on Nanomaterials (FIVCON-2020), organized by Department of Nanotechnology, Acharya Nagarjuna University, Guntur, AP., India, during 10-09-2020 to 12-09-2020.
34. Participated in the webinar on “Literacy in New Education Policy 2020” held on 08-09-2020, jointly organized by NITTTR Chandigarh and NIT Kurukshetra.
35. Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on "Alternate Fuels" at Engineering College Bikaner. during 01/09/2020 to 05/09/2020.
36. Participated in One week online Faculty Development Program on “Student Induction and Universal Human Values” Organized by Department of Physics, Chaitanya Bharathi Institute of Technology (A), Hyderabad-500075, during 26/08/2020 to 30/08/2020.
37. Participated in One week online Faculty Development Program on “Recent Trends in Material Science and Technology” Organized by Department of Physics, Hyderabad Institute of Technology and Management, Hyderabad, during 25/08/2020 to 29/08/2020.

38. Participated in One week online Faculty Development Program on "Engineering Physics and Materials Science" Organized by Department of Physics, Chaitanya Bharathi Institute of Technology (A), Hyderabad-500075, during 03/08/2020 to 07/08/2020.
39. Participated a Five days International Conference on "Advanced Materials Behavior & Characterization" (ICAMBC_2020) organized by Mattest Research Academy, Chennai, during 18-07-2020 to 23-07-2020.
40. One week online Faculty Development Program on "Materials Processing and Optimization" Organized by Mechanical Engineering Department, NITTTR, Chandigarh, during 06-07-2020- 10-07-2020.
41. Participated in the Five days webinar series on "Advances in Materials Science and Technology (WSAMST-2020)", held on 22-06-2020 to 26-06-2020 organized by Department of Applied Sciences and Humanities (Physics), School of Engineering, University of Petroleum and Energy Studies, Dehradun.
42. One week online Faculty Development Program on "Advanced Materials for Energy Harvesting, Conversion and Storage" Organized by Department of Science and Humanities, MLR Institute of Technology, Hyderabad, during 19-06-2020 to 23-06-2020.
43. One week online Faculty Development Program on "Advanced Materials Research" Organized by Bharat Institute of Engineering and Technology in collaboration with Indian Ceramic Society, Hyderabad, during 15-06-2020 to 19-06-2020.
44. One week online Faculty Development Program on "Effective Online Teaching Methods" Organized by Department of Civil Engineering, Dr.N.G.P IT, Coimbatore, during 08-06-2020 to 14-06-2020.
45. One week online Faculty Development Program on "Technology towards Comman Man" Organized by Sri Manakula Vinayagar Engineering College Puducherry, during 10-06-2020 to 13-06-2020.
46. One week online Faculty Development Program on "Materials: Recent Trends & Engineering Applications" Organized by the Department of H&S, Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, during 02-06-2020 to 07-06-2020.
47. Successfully Completed " Nanotechnology: A Maker's " an online non-credit course authorized by Duke University and The University of North Carolina at Chapel Hill and offered through Coursera on 05-06-2020.
48. Successfully Completed "Organic Solar Cells - Theory and Practice" an online non-credit course authorized by technical university of Denmark and offered through Coursera on 05-06-2020.
49. Participated in Five Days Hands on Workshop on "Patent Searching, Drafting and Filing" organized by Department of Computer Science and Engineering, Panimalar Institute of Technology, Chennai, Tamil nadu, during 29-05-2020 to 02-06-2020.
50. One week online Faculty Development Program on "Outcome Based Education and NBA Accreditation process (UG) organized by CBIT, during 28-05-2020 to 01-06-2020.
51. One week online Faculty Development Program on "Nanomaterials and Devices" Organized by Applied Science Department, NITTTR, Chandigarh, during 25-05-2020 to 29-05-2020.
52. Participated in the IIC Online Sessions conducted by Institution's Innovation Council (IIC) of MHRD's Innovation Cell, New Delhi to promote Innovation, IPR,

Entrepreneurship, and Start-ups among HEIs from 28-04-2020 to 22-05-2020 during COVID-19 nationwide lockdown.

53. Participated in One Day Workshop on "Recent Trends in Materials and Its Applications in Engineering" organized by the Department of Physics, Chaitanya Bharathi Institute of Technology (A), Hyderabad, on 20-11-2019.
54. Participated in a National Seminar on Recent trends in Material Research for Science and Engineering Applications (RTMRSEA-2018) Organized by the Department of Applied Sciences, MVSR, Engineering College, Hyderabad, from 20-12-2018 to 21-12-2018.
55. Participated in a Workshop on "Performance Measures in Academic & Research Aspects" conducted by IQAC, CBIT, Hyderabad on 20-06-2017.

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

International / National Journals from the Year 2017

1. MR. Rashmi, Ramesh Kola, Manoj Kumar, Kumar Pratyush, Priya Dule, GA. Sivasankar, "Investigation of heat transfer for silver oxide (Ag₂O) and iron oxide (Fe₃O₄) using nanofluid over a stretch sheet" *Materials Today: Proceedings* Volume 69, Issue 3, pp. 1118- 1125, September 2022, ISSN: 2214-7853.
2. Kishor Palle, Shanthi Vunguturi, K. Subba Rao, Sambhani Naga Gayatri, P. Ramesh Babu, Md. Mushtaq Ali, Ramesh Kola, "Comparative study of adsorption isotherms on activated carbons synthesized from rice husk towards carbon dioxide adsorption" *Chemical Papers* Volume 76, August 2022, P-ISSN: 3666352. pp. 7865–7866.
3. S.Ravindran, L.Reeta Carolin, V.Gopal, K. Ramesh, G.Ravi, S.Sathya, "Influence of nano-TiC content on the properties of Al₂O₃ aluminum metal matrix composites" *Materials Today: Proceedings* Volume 69, Issue 3, pp. 922- 926, August 2022, ISSN: 2214-7853.
4. Ramesh Kola (2021), "Efficient synthesis of substituted [1, 2, 4] triazolo[4,3-a][1,8] naphthyridines" *High Technology Letters* Volume 27, Issue 8, August 2021, ISSN: 1006-6748. pp. 552- 556.
5. Ramesh Kola, Jagadeesh Kumar Ega (2022), "Ultrasoundically Synthesis of 3-Aryl-1-[3-(3-Methylphenyl)][1,8]Naphthyridin-2-Yl]-1h- 4-Pyrazolecarbaldehydes" *Asian Journal of Organic & Medicinal Chemistry*, Vol. 7, No. 2 (April - June, Special Issue - III 2022), ISSN: 2456-8937. pp. 229-235.
6. Ramesh Kola, Jagadeesh Kumar Ega*, Kavitha Siddoju, Suma Sanikommu, Sreelatha Beemagani (2021), "Anticancer Activity of 6-Aryl-9,10-Dimethoxy-12H-[1,8] Naphthyridino [2,1-b] Quinazolin-12-Ones" *Proteus Journal* Volume 12, Issue 6, 2021, ISSN: 0889-6348. pp. 21 23.
7. Ega Jagadeesh Kumar, Arisha Samba Shiva Rao, Kola Ramesh and Siddoju Kavitha (2020), "Ionic liquid catalyzed ambient synthesis of cholest-6-eno-4H-pyron hybrids and their in vitro anti-cancer evaluation" *Research Journal of Chemistry and Environment*, Volume 24, Issue 8, 2020, ISSN: 09720626.
8. Jagadeesh Kumar Ega*, Samba Shiva Rao Arisha, Ramesh Kola, Kumaraswamy Jella, Kavitha Siddoju (2020), "Synthesis and In vitro Anticancer Evaluation of Some New 5 α -Cholestan-pyrazole Hybrids", *Indian Journal of Heterocyclic Chemistry*, Vol. 30, Issue 2, 2020, pp. 217-221, ISSN 0971-1627.
9. Uppalaiah Kusampally, Naresh Dhachapally, Ramesh Kola, Chinna Rajanna Kamatala (2020) "Zeolite anchored Zr-ZSM-5 as an eco-friendly, green, and reusable catalyst in Hantzsch synthesis of dihydropyridine derivatives", *Materials Chemistry and Physics*, Volume 242, 2020, 122497.
10. Jagadeesh Kumar Ega, Kavitha Siddoju*, Samba Shiva Rao Arisha, Ramesh Kola (2020), "Antimicrobial activity of pyrazole fused triazolo bridged thiadiazole Derivatives", *International Journal of Research Culture Society*, Volume 4, Issue 1, 2020, (ISSN 2456- 6683).
11. K. Ramesh, S. Shylaja, S. Ramgopal, A. Sambashiva Rao, K. C. Rajanna (2019), "Poly (ethylene glycol) Supported Metal Nitrates as Well-Organized Reagents for Hunsdiecker Conversion of α , β -Unsaturated Acids to β -nitrostyrenes under Solvent and Acid-Free Conditions", *Asian Journal of Chemistry*, Volume 31, Issue 8, 2019, pp. 1798-2000.
12. A. Samba Shiva Rao, K. Ramesh, K.C. Rajanna, I. Chakrvarthi (2018), "Ultrasoundically assisted halogenation of aromatic compounds using isoquinolinium bound hypervalent chromium and tetra butyl ammonium halides in PEG-600 solutions under acid free and solvent-free conditions", *Asian Journal of Chemistry*, Volume 30, Issue 8, 2018, pp. 1892-1896.
13. A.Sambashiva Rao, A. Manjunath, K. Ramesh, Y. Hima Bindu (2017), "Hydrogeo Chemistry of Musi River Basin" *International Journal for Research in Applied Science & Engineering Technology*, Volume 5, 2017, Issue XII pp. 2760 – 2768.

International / National Conferences from the year 2017

1. K. Ramesh, (2021), Presented a paper titled "Poly ethylene glycol Supported Metal Nitrates as Well-Organized Reagents for Conversion of α , β -Unsaturated Acids to β -Nitrostyrenes under Solvent Free Conditions" at Virtual International conference on "Multifunctional Advanced Materials (VICMAM-2021) Organized by Department of Chemistry, JVM's Degree College in collaboration with Association of Chemistry Teachers (ACT), during 09/08/2021 to 10/08/2021.
2. K. Ramesh, (2021), Presented a paper titled "Effect of Poly Ethylene Glycols for the Conversion of Organic Acids to β -Nitrostyrenes under Conventional and Non-Conventional Conditions" at International e-Conference on Materials Processing & Characterization (ICMP&C-2020) Organized by Department of Physics, Chaitanya Bharathi Institute of Technology (A), Hyderabad-500075, during 18/09/2020 to 19/09/2020. ISBN: 978-81-946476-9-0.
3. K. Ramesh, (2020), Presented a paper titled "Flipped Class Approach in Teaching of Chemistry Using Moodle" at International Webinar on Recent Advances in Science and Technology During the

Coronavirus Pandemic (IRSTCP-2020) Organized by Department of Chemistry, Birla Institute of Technology, Mesra, Ranchi, Jharkhand, India-835215, during 18/07/2020 to 20/07/2020.

4. K. Ramesh, (2020), Presented a paper titled "Polyethylene glycol (PEG) mediated Kinetic Study of Nitrodecarboxylation of α , β -Unsaturated Acids by Blau's Fe (III) Bipy Complex" at Recent Trends In Advanced Materials And Characterization – 2020 (RTAMC - 2020) Organized by VSM COLLEGE (A), Ramachandrapuram, East Godavari District, Andhra Pradesh, India, during 29-01-2020 to 30-01-2020.
5. K. Ramesh, (2019), Presented a paper titled "Simple, Rapid and Solvent Free Synthesis of β – Nitrostyrenes from α , β -unsaturated carboxylic acids in presence of Poly ethylene glycol supported metal nitrates" at International Conference on Multifunctional Materials (ICMM-2019) Organized by Geethanjali College of Engineering and Technology, Hyderabad-501301, India, during 19-12-2019 to 21-12-2019.
6. K. Ramesh, (2019), Presented a paper titled "Solvent Free Synthesis of β –Nitrostyrenes from α , β -unsaturated carboxylic acids: a Case Study" at Research Day, Organized by Chaitanya Bharathi Institute of Technology, Hyderabad on 23-08-2019.

