

Name of Faculty Dr P MURALIKRISHNA
 Designation Assistant Professor
 Nature of Job/Appointment Regular
 Date of Joining 03-10-2011
 E-mail pmuralikrishna_chm@cbit.ac.in



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

Work Experience

Teaching	18Years
Research	06 years
Industry	--
Others	--
Area of Specialization	Physical Chemistry
Professional Memberships	--

Responsibilities held at Institution Level

1. Co-Incharge, Academic & Examination Cell since April, 2024.
2. Member, Student counseling committee since 2020.
3. Member, Anti Ragging Committee since 2021

Responsibilities held at Department Level

1. Incharge, ISO (International organization for standardization) since Aug, 2013 to till date.

Research Guidance --

Awards Received --

Courses Handled at Under Graduate / Post Graduate Level. Engineering Chemistry, Physical chemistry, Organic Chemistry, IPA Chemistry, B.Sc. chemistry – I, II, III, and IV

No. of Papers Published National Journals –09 International Journals –13

National Conference – International Conference –

Projects Carried out

1. Examining Pressure induced quantum phase transition and quantum critically in doped chiral magnet MnSi (in progress)

Patents

1. Catalytic system forefficient conversion of methane to liquid hydrocarbons (Process), File No. and date, 2023410177168 A/12-11-2023, Published on 22-12-2023.

Technology Transfer --

- 1.
2. Received letter of appreciation from Principal, Telangana gurukul degree college for women, kamareddy, for delivering lecture on Physical chemistry, 21st November 2020.
3. Received letter of appreciation from Principal, CBIT. for

Invited Speaker

delivering lectures on pharmacological chemistry to Dr.Reddy's laboratory employees, 11th October to 20th December 2015.

4. Received letter of appreciation from Principal, CBIT. For delivering lectures on pharmacological chemistry to Dr.Reddy's laboratory employees.12th September to 15th December 2014.
5. Received letter of appreciation from Principal, Gayathri Degree College, Medchal, Hyderabad. For delivering lecture on Structural theory of organic compounds on 26th October 2024.

No. of Books/Chapter Published with details

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

Organized

1. One week Faculty Development Programme on "Recent trends in advanced materials science and engineering technology" from 08-03-2021 to 12-03-2021, Department of chemistry, CBIT.

Attended

1. One Week Virtual International Faculty Development Programme on 'Fundamentals and Advances of Magnetic Materials (FAMM-2024)', Department of Physics, Chaitanya Bharathi Institute of Technology, Hyderabad, India, 20th TO 24th may 2024.
2. National Level One Week Faculty Development Programme (Hybrid) on "National Education Policy 2020 - Challenges in implementation in Higher Education", Department of EEE, IT and Physics, Chaitanya Bharathi Institute of Technology, Hyderabad, Telangana, 18th to 23rd March 2024.
3. One-week online FDP on "Empowering Educators : AI Tools for Engineering and Technology (AITET-2024)", Department of Chemical Engineering, Chaitanya Bharathi Institute of Technology (A), Hyderabad, 29th to 02 February 2024.
4. One week online FDP on "Research Methodologies and Publication Strategies", School of Management Studies, Chaitanya Bharathi Institute of Technology (Autonomous), Gandipet, Hyderabad- 500 075, Telangana, India, 12th Feb to 16th Feb 2024.
5. One week online FDP 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, 22nd to 27th January 2024.
6. Participated in 5 days online interanational FDP on data analyst organized by Andhra Pradesh state skill development corporation from 19th to 23rd june 2023.
7. Participated in one week FDP on Recent trends in Data science in engineering organized by information technology department on 26th to 30th june at CBIT.
8. Participated in AICTE recognized FDP on smart materials processing and applications, conducted by applied science department on 25th to 29th 2022.
9. Participated in the National One Week Faculty Development Programme on Research

Methodology from 25th june to 29th june 2023 organized by kamala Nehru mahavidyalaya, Nagpur.

10. Participated in 5 days online STTP on Recent advancements in medicinal chemistry and material science on 24th to 28th april 2023 at Vardhaman college of engineering.
11. Participated in AICTE recognized short term course on 2D nano materials: potential applications using ICT conducted by applied science department on 17th to 21st October 2022 at CBIT Hyderabad.
12. Participated and successfully completed the Part 1 of the online UHV Refresher 1 FDP organized by All India Council for Technical

Education(AICTE), 25 -29 April 2022.

13. Participated in online National Level Faculty Development Program (FDP) on "Mateterials for Photonic Applications" 9th-13th August 2022, MGIT, GANDIPET.
14. Participated one week faculty development programme on Recent trends on smart materials and their applications, 7 – 11 , February 2022, Vardhaman College of Engineering
15. Participated in the National One Week Faculty Development Programme on Carbon Capture & Storage, 21st to 25th February 2022, Central University of Tamilnadu, Thiruvayur.

16. Participated International one week faculty development programme on Research Methodology, 2 -7 May 2022, Kamala Nehru Mahavidyalaya, Nagpur.

17. PARTICIPATED IN THE INTERNATIONAL SHORT TERM TRAINING PROGRAMME-2 ON IMPACT AND PANACEA OF ENVIRONMENTAL POLLUTION: THE PAST, PRESENT AND FUTURE, **20TH-26TH APRIL 2022**, RAJ RISHI GOVT. AUTONOMOUS COLLEGE, ALWAR, RAJASTHAN, INDIA.
18. Participated a National webinar on Research trending areas in Humanities and basic sciences, 15 – 20, November 2021, Research and Development cell, Ace Engg. College.
19. Participated in a Two Day Online National Level Faculty Development Program on “Modern Chemistry & It's Applications”, 24th & 25th Sep 2021, MALLA REDDY INSTITUTE OF ENGINEERING AND TECHNOLOGY.
20. *Participated in Three days Faculty Development Program on “Enhancement of Knowledge in Advanced Research & Engineering Chemistry”, 16th to 18th November-2021*, GURU NANAK INSTITUTE OF TECHNOLOGY
21. Participated in international webinar on Empowering diversity in science, 16th February, 2022, Kamala Nehru Mahavidyalaya, Nagpur
22. **Participated** in the “One Day International Symposium on Advances in Photocatalysis” (Virtual Mode), 13th April 2022, Raje Ramrao Mahavidyalaya, Jath, Maharashtra.
23. Participated in the WEBINAR on “NUCLEAR ENERGY: GREEN FOR SUSTAINABLE DEVELOPMENT”, 28th February 2022, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY.
24. Participated in the International Seminar on Multidisciplinary approach towards Science and Education, 13th April 2022, Raj Rishi Govt. Autonomous College, Jaipur.
25. Attended pre event and main event of Turnip innovation festival 2022, 22nd Jan 2022, Turnip innovations.
26. Attended a National seminar on Research trending areas in Humanities and sciences. 15th to 20th November, 2022, Ace Engineering.
27. Three day online National FDP on ICT Tools for effective teaching learning from 8th to 10th June 2021 organized by Kamala Nehru Mahavidyalaya, Nagpur.
28. One Week Online National Level Faculty Development Programme on “Research Methodology In Humanities & Social Sciences”, from 29th May to 3rd June, 2021 organised by Department of Chemistry, Lords Institute of Engineering and Technology, Hyderabad.
29. 3. One week online faculty development programme on “IPR & Patent Prosecution” organized by Department of Computer Science and Engineering in association with Institution Innovation Council (IIC), MVSREC, Hyderabad from 24-May-2021 to 28-May-2021.
30. 4. National level one week Faculty Development Programme on Research Methodology from 26th April to 01st May, 2021 organized by Amarseva Mandals Kamala Nehru Mahavidyalaya, Nagpur.
31. 5. One week online faculty development programme organized by Department of Physics and Chemistry, Gokaraju Ranga raju Institute of Engineering and Technology on “Materials, Recent trends and Engineering applications” during 02-07, June 2020.
32. 6. One week faculty development programme organized by Chaitanya Bharathi Institute of Technology on “Outcome based education and NBA accreditation process(UG)” during 28th May to 01st June 2020.
33. 7. One week faculty development programme organized by Department of Freshman engineering, Vardhaman College of Engineering on “Emerging trends in sciences - usage of research tools and techniques” during 15th June to 20th June 2020.
34. 8. A five day short term training programme by National institute of technical teachers training and research (NITTTR) on “Development programme on laboratory instructions and manual” between 4th February to 8th February, 2019.
35. 9. A one day seminar on “physics and its applications in Engineering” by department of physics, CBIT on 13th march, 2019. Three day faculty development programme on students induction at G.Pulla Reddy engineering college, Kurnool from 19th to 21st December, 2019. (AICTE Sponsored).
36. 10. A one day national workshop on smart problems: teacher's perspectives on changing student perceptions, Department of English, CBIT, Hyderabad, on 15th December 2018.

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

International Journals from the year 2017

1. **Murali Krishna Patwari**, Ranjith Kumar Bachu, Sathyanarayana Boodida and Satyanarayana Nallani* “Densities and Speeds of Sound for Binary Liquid Mixtures of Thiolane-1,1-dioxide with butanone, pentan-2-one, pentan-3-one, and 4-methyl-pentan-2-one at $T=(303.15 \text{ or } 308.15 \text{ or } 313.15) \text{ K}$ ”. *Journal of chemical engineering data*, 54, 6, (2009) 1947-1950.
2. **Murali Krishna Patwari**, Ranjith Kumar Bachu, Sathyanarayana Boodida and Satyanarayana Nallani* “Densities, viscosities and speeds of sound for binary liquid mixtures of Sulfolane with ethyl acetate, n-propyl acetate and n-butyl acetate at Temperatures of (303.15, 308.15, and 313.15) K”. *Journal of chemical engineering data*, 54, 3, (2009) 1069-1072.
3. **Murali Krishna Patwari**, Ranjith Kumar Bachu, Sathyanarayana Boodida and Satyanarayana Nallani* “Thermodynamic and transport properties of binary liquid mixtures of sulfolane with some lactones at 308.15 K”. *Indian Journal of Chemistry, Sec A*, Vol. 48A, April (2009) 526-529.
4. **P.Murali Krishna**, B.Ranjith Kumar, B.Sathyanarayana, K.Amara Jyothi and N.Satyanarayana* “Density, Viscosity and Speeds of Sound of Binary Liquid Mixtures of Sulfolane with Aliphatic Amines at $T=308.15 \text{ K}$ ”. *Indian Journal of Pure & Applied Physics*, Vol. 47, August (2009) 576-581.
5. B.Ranjith Kumar, **P.Murali Krishna**, S. Asra Banu, K. Amara Jyothi, T.Savitha Jyostna and N.Satyanarayana* “Acoustic, Viscometric and Volumetric Properties of Binary Mixtures of N-

- methylacetamide with Some Aliphatic Mono and Di alkyl Amines at $T=308.15\text{ K}$ ". *Physics and Chemistry of Liquids*, 48, 1, (2010) 79-88.
6. Sathyanarayana Boodida, Ranjith Kumar Bachu, **Murali Krishna Patwari** and Satyanarayana Nallani*, "Volumetric and transport properties of binary liquid mixtures of N-methylacetamide with lactones at temperatures (303.15 to 318.15) K". *Journal of chemical thermodynamics*, 40, (2008) 1422-1427.
 7. Ranjith Kumar Bachu, **Murali Krishna Patwari**, Sathyanarayana Boodida and Satyanarayana Nallani* "Volumetric and transport properties of Binary Liquid Mixtures of Aliphatic Ketones with Phenylacetoneitrile at $T= 308.15\text{ K}$ ". *Journal of chemical engineering data*, vol53, Issue 10, (2008) 2403-2407.
 8. Ranjith Kumar Bachu, **Murali Krishna Patwari**, Sathyanarayana Boodida, Savitha Jyostna Tangeda and Satyanarayana Nallani* "Densities, Viscosities and Speed of Sound of Binary Mixtures of Phenylacetoneitrile with Some Aliphatic Alcohols at $T=308.15\text{ K}$ ". *Indian Journal of Chemistry, Sec A*, Vol. 47A July, (2008) 1026-1037.
 9. Ranjith Kumar Bachu, **Murali Krishna Patwari**, Asra Banu Syeda, Sathyanarayana Boodida and Satyanarayana Nallani* "Thermodynamic and transport properties of binary liquid mixtures of phenylacetoneitrile with some aliphatic amines at $T=308.15\text{ K}$ ". *Indian J. Chem, Sec A*, Vol. 47A, Dec (2008) 1809-1813.
 10. Amara Jyothi Koppula, **Murali Krishna Patwari**, Sathyanarayana Boodida and Satyanarayana Nallani, "Study of densities and Ultra Sound Velocities of The Binary Systems of γ -Butyrolactone with Alkyl Nitriles at Temperatures (303.15 to 313.15) K". *ISST Journal of Applied Chemistry*, Vol. 3 No. 2, (July - December 2012), p.p. 33-38. (ISSN: 0976-7355).
 11. Amara Jyothi Koppula, **Murali Krishna Patwari**, Sathyanarayana Boodida, Satyanarayana Nallani* "A study on densities and ultrasound velocities in the (γ -butyrolactone + aliphatic ester) system at temperatures (303.15 to 313.15) k". *International Journal of Engineering Research and Technology*, Vol. 1 Issue 8, 1-10, October, (2012). (ISSN: 2278-0181).
 12. Amara Jyothi Koppula, **Murali Krishna Patwari**, Sathyanarayana Boodida, Satyanarayana Nallani*, "Transport Properties of Binary Liquid Mixtures of γ -butyrolactone + aliphatic Alcohols Studied in the Temperature Range of (303.15 to 313.15) K". *International Journal of Engineering Research and Technology*, Vol. 6 Issue 7, 586-590, July, (2017). (Doi: 10.17577/IJERTV6IS070246) (ISSN: 2278-0181).
 13. **P.Muralikrishna***, B.Sathyanarayana, K.Rajagopal, & M.Amarnath., "Thermodynamic and transport properties of binary liquid mixtures of sulfolane with some organic solvents at 308.15K". *International Journal of Recent Scientific Research*, Vol.10, issue 05(B), May 2019, 32254-32257.[ISSN:0976-3031].
 14. Dhanaja Kotte, Kumaraswamy Gullapelli, Brahmeshwari Gavaji, Ramchander Merugu, Ravichander Maroju, **Muralikrishna Patwari**, An efficient synthesis, anti-inflammatory activity and molecular docking studies of new triazinanes and iminothiazolidinones. *Research J. Pharm. and Tech.* 13(10): 4743-4750, October 2020. Impact Factor **0.38**, citations – 01, ISSN:0974-360X(online), 0974-3618 (Print).
 15. **Dr.P.Muralikrishna**, Dr.G.Kumaraswamy and G.Srinivas Reddy, "Measurements of thermodynamic and transport properties of binary liquid mixtures of sulfolane with some organic solvents at 303.15K". International e-conference on "materials processing and characterization" September, 18th and 19th, 2020, Department of Physics, Chaitanya Bharathi Institute of Technology, Hyderabad on. (Paper published).[Vandana Publications, 290-296, ISBN: 978-81-946476-9-0].
 16. M.Anand, **P.Muralikrishna**, D.Suresh Babu, B.VijayaKumar and G.Upender "Vibrational, thermal and optical studies of 30TeO₂.39.5B₂O₃.(30-X)-ZnO-xLi₂O-0.5V₂O₅(0≤x≤30 mol%) glass system". *Journal of Non-Crystalline Solids*, 566 (2021) 120875-120882. Impact Factor **2.929**, citations – 10, ISSN:00223093.
 17. V. Kamalaker, N. Chanakya, J Hema Madhuri, N. Jahangeer, M. Maheshwar Reddy, Ch Ramesh, P. Muralikrishna, G. Upender, Influence of Nb⁵⁺ and La³⁺ ions on physical properties of the quaternary TeO₂-ZnO-Nb₂O₅-La₂O₃ glass system, *Ceramics International*, Available

online 31 July 2024, [Volume 50, Issue 21, Part A](#), 1 November 2024, Pages 41472-41482.
<https://doi.org/10.1016/j.ceramint.2024.07.463>

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18. S. Shanmukharao Samatham, Akhilesh Kumar Patel, Parul Khandelwal, S. Shravan Kumar Reddy, Gowrinaidu Babbadi, M. Chandra Sekhar, **Muralikrishna Patwari**, and K. G. Suresh, Restoration of Magnetic Order in Heavy Metal Doped Spin Glass, **2024 IEEE International Magnetic Conference - Short Papers (INTERMAG Short Papers) | 979-8-3503-6221-3/24©2024 IEEE DOI:10.1109/INTERMAGSHORT PAPERs 61879.2024.10576842, Electronic ISBN:979-8-3503-6221-3**
Print on Demand(PoD) ISBN:979-8-3503-6222-0
19. E. Praveen Kumar. N. Chanakya , Ayesha Siddiqua, Kurugundla Gopi Krishna, B. Vijaya Kumar, **P. Muralikrishna**, G. Upender, Investigations on MWO4 (M = Cu, Zn, Cd and Sn) nanostructures for detecting toluene gas at room temperature, **Sensors & Actuators: A. Physical 368 Feb,2024) 115094.**
<https://doi.org/10.1016/j.sna.2024.115094> **Print ISSN: 0924-4247 Online ISSN: 1873-3069 (Elsevier)**
20. S. Shanmukharao Samatham, Venkateswara Yenugonda, Gowrinaidu Babbadi, **Muralikrishna Patwari**, Arjun K. Pathak,P. Manuel, D. Khalyavin,Stephen Cottrell, A. D. Hillier, and K. G. Suresh, Magnetic field-induced narrow first-order and metamagnetic phase transitions of Nd₅Ge₃, **AIP Advances 14, 025216 (2024), <https://doi.org/10.1063/9.0000636> Online: ISSN 2158-3226 AIP ADVANCES**
21. D. Satya Vardhan , Ch Sameera Devi, P. Nagaraju, **P. Muralikrishna**, B. Vijaya Kumar, G. Upender, Room temperature sensing of ammonia and formaldehyde gases through novel anisotype heterojunction of p-Co₃O₄/n-Gd_{0.1}Ce_{0.9}O_{2-δ} as highly responsive and stable sensors. Materials Chemistry and Physics, Volume 313, 1 February 2024, 128694 <https://doi.org/10.1016/j.matchemphys.2023.128694>
Online ISSN: 1879-3312, Print ISSN: 0254-0584 (Elsevier)
22. K. Vinay Kumar Reddy, G. Srinivas Reddy, **P. Muralikrishna**, S. Shravan Kumar Reddy, B. Sreenivasa Reddy, Natural background outdoor gamma radiation levels and mapping of associated risk in Siddipet district of Telanagana State, India, Nuclear and Particle Physics Proceedings, Volumes 339–340, November 2023, Pages 114-119 <https://doi.org/10.1016/j.nuclphysbps.2023.08.006>
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