

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 | 18 Years |
| Research | 04 years |
| Industry | -- |
| Others | -- |
| Area of Specialization | Physical Chemistry |
| Professional Memberships | -- |

Responsibilities held at Institution Level

1. Co-Incharge AEC 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 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 –04 International Journals – 17
 National Conference – International Conference –02

Projects Carried out --

Patents --

Technology Transfer --

Invited Speaker

1. Received letter of appreciation from Principal, Telangana gurukul degree college for women, kamareddy, for delivering lecture on Physical chemistry, 21st November 2020.
2. Received letter of appreciation from Principal, CBIT. for delivering lectures on pharmacological chemistry to Dr.Reddy's laboratory employees, 11th October to 20th December 2015.
3. 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.

No. of Books/Chapter Published with details ---

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. Three day online National FDP on ICT Tools for effective teaching learning from 8th to 10th June organized by Kamala Nehru Mahavidyalaya, Nagpur.
2. 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.
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.
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.
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.
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.
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.
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.
9. A one day seminar on "physics and its applications in Engineering" by department of physics, CBIT on 13th march, 2019.
10. Three day faculty development programme on students induction at G.Pulla Reddy engineering college, Kurnool from 19th to 21st December, 2019.(AICTE Sponsored).
11. 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. V. Kamalaker, N. Chanakya, JHema Madhuri, N. Jahangeer, M. MaheshwarReddy, 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> Print ISSN: 0272-8842 Online ISSN: 1873-3956 (Elsevier)
2. 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)
3. 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-Gd0.1Ce0.9O2-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)
4. 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, ISBN:979-8-3503-6222-0

5. 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
6. 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> Print ISSN: 2405-6014 Online ISSN: 2405-6022 (Elsevier)
7. 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.
8. 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).
9. **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].
10. **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].
11. Amara Jyothi Koppula, **Murali Krishna Patwari**, Sathyanarayana Boodida, Satyanarayana Nallani*, “Transport Properties of Binary Liquid Mixtures of - 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).
12. Amara Jyothi Koppula, **Murali Krishna Patwari**, Sathyanarayana Boodida and Satyanarayana Nallani, “Study of densities and Ultra Sound Velocities of The Binary Systems of □-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).
13. Amara Jyothi Koppula, **Murali Krishna Patwari**, Sathyanarayana Boodida, Satyanarayana Nallani* “A study on densities and ultrasound velocities in the (□-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).
14. 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 K”. *Physics and Chemistry of Liquids*, 48, 1, (2010) 79-88.
15. **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 or 308.15 or 313.15) K”. *Journal of chemical engineering data*, 54, 6, (2009) 1947-1950.

16. **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.
17. **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.
18. **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 $T=308.15$ K". *Indian Journal of Pure & Applied Physics*, Vol. 47, August (2009) 576-581.
19. 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.
20. 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 $T= 308.15$ K". *Journal of chemical engineering data*, vol53, Issue 10, (2008) 2403-2407.
21. 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 $T=308.15$ K". *Indian Journal of Chemistry, Sec A*, Vol. 47A July, (2008) 1026-1037.
22. 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 $T=308.15$ K". *Indian J. Chem, Sec A*, Vol. 47A, Dec (2008) 1809-1813.

International Conferences from the year 2017

1. Dr.P.Muralikrishna (2021), Presented a paper titled "Thoron progeny levels in dwellings of Jagtial District, Telangana state, India". First International e - Conference on Management, science and Technology" 29th and 30th May, 2021, RBVRR womens college, Hyderabad, India.
2. Dr.P.Muralikrishna (2021), Presented a paper titled, "Study on Acoustic and Volumetric Properties of Binary Liquid Mixtures of Sulfolane with N-Pentylamine, 2-Aminopentane and 3-Amino Pentane at 303.15K. - An Insight from Physicochemical Parameters". International Conference on Advances in Science, Engineering and Technology" 21st and 22nd May, 2021, KSRM College of Engineering, Kadapa, Page 6, 2021.
3. Dr.P.Muralikrishna (2021), Presented a paper titled, "Thermodynamics and Transport Properties of Binary Liquid Mixtures of Sulfolane With 1-propanol, 1-butanol and 1-pentanol At 298.15k.". International virtual conference on materials and nanotechnology 29th and 30th April, 2021, Department of Physics, Guru Nanak College of Science, Ballarpur, 2021.
4. Dr.P.Muralikrishna(2021), Presented a paper titled, "Excess volumes and isentropic compressibilities of binary liquid mixtures of sulfolane with some organic solvents at 313.15K". International e-conference on advances in materials Science" 23rd and 24th April, 2021, Post graduate Department of Physics and IQAC of Raje Ramrao Mahavidyalaya, Jath, Page no. 216, 2021.
5. Dr.P.Muralikrishna (paper presented) in International conference on "Chemistry for Sustainable Future", August, 7th to 9th, 2018, Department of Chemistry, Palamuru University, Mahaboobnagar.

