

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	
<b>Education Qualifications</b>	<b>Name of the Degree</b>	<b>Class</b>
Ph. D	Doctor of Philosophy(Physical Chemistry)	Awarded
PG	M.Sc. (Organic Chemistry)	First
UG	B. Sc. (B.Z.C)	Second
<b>Work Experience</b>		
Teaching	18Years	
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 National Conference –	International Journals – 17 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, 21 <sup>st</sup> November 2020. 2. Received letter of appreciation from Principal, CBIT. for delivering lectures on pharmacological chemistry to Dr.Reddy's laboratory employees, 11 <sup>th</sup> October to 20 <sup>th</sup> December 2015. 3. Received letter of appreciation from Principal, CBIT. For delivering lectures on pharmacological chemistry to Dr.Reddy's laboratory employees.12 <sup>th</sup> September to 15 <sup>th</sup> 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).	<b>Organized</b> 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 8<sup>th</sup> to 10<sup>th</sup> 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 26<sup>th</sup> April to 01<sup>st</sup> 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 28<sup>th</sup> May to 01<sup>st</sup> 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 15<sup>th</sup> June to 20<sup>th</sup> 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 4<sup>th</sup> February to 8<sup>th</sup> February, 2019.
9. A one day seminar on “physics and its applications in Engineering” by department of physics, CBIT on 13<sup>th</sup> march, 2019.
10. Three day faculty development programme on students induction at G.Pulla Reddy engineering college, Kurnool from 19<sup>th</sup> to 21<sup>st</sup> 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 15<sup>th</sup> 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 Nb<sup>5+</sup> and La<sup>3+</sup> ions on physical properties of the quaternary TeO<sub>2</sub>-ZnO-Nb<sub>2</sub>O<sub>5</sub>-La<sub>2</sub>O<sub>3</sub> 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 MWO<sub>4</sub> (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-Co<sub>3</sub>O<sub>4</sub>/n-Gd<sub>0.1</sub>Ce<sub>0.9</sub>O<sub>2-δ</sub> 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. Shanmukharaao Samatham, Akhilesh Kumar Patel, Parul Khandelwal, S. Shravan Kumar Reddy, Gowrinaldu Babbadi, M. Chandra Sekhar, **Muralikrishna Patwari**, and K. G. Suresh, Restoration of

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 Nd<sub>5</sub>Ge<sub>3</sub>, *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 Telangana 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. Vijaya Kumar and G. Upender "Vibrational, thermal and optical studies of 30TeO<sub>2</sub>.39.5B<sub>2</sub>O<sub>3</sub>.(30-X)-ZnO-xLi<sub>2</sub>O-0.5V<sub>2</sub>O<sub>5</sub>(0≤x≤30 mol%) glass system". *Journal of Non-Crystalline Solids*, 566 (2021) 120875-120882. Impact Factor 2.929,. citations – 10, ISSN:002223093.
8. Dhanaja Kotte, Kumaraswamy Gullapelli, Brahmashwari 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, 18<sup>th</sup> and 19<sup>th</sup>, 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  $\alpha$ -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 ( $\alpha$ -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-pantan-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 Phenylacetonitrile 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 Phenylacetonitrile 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 phenylacetonitrile 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' 29<sup>th</sup> and 30<sup>th</sup> 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" 21<sup>st</sup> and 22<sup>nd</sup> 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 29<sup>th</sup> and 30<sup>th</sup> 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" 23<sup>rd</sup> and 24<sup>th</sup> 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, 7<sup>th</sup> to 9<sup>th</sup>, 2018, Department of Chemistry, Palamuru University, Mahaboobnagar.

