

1 Name of Faculty Dr.K. PRASAD BABU
 2 Designation Assistant Professor
 3 Nature of Job/Appointment Regular
 4 Date of Joining 16 – 08 - 2010
 5 E-mail kprasadbabu_chem@cbit.ac.in



6 **Education Qualifications** Name of the Degree Class
 Ph. D Doctor of Philosophy (CHEMICAL ENGG.) Awarded
 PG M. Tech. (MINERAL ENGG) Distinction
 UG B.Tech. (CHEMICAL ENGG) Distinction

7 **Work Experience**
 Teaching 14 Years
 Research 05 years
 Industry 03 Months
 Others --

8 Area of Specialization Advance Separation Process, Mineral Processing.

9 Professional Memberships
 1.Member, Indian Institute of Chemical Engineers (IICHe) Number: 44885
 2. Professional Member of (IFERP) Institute for Engineering Research and publication.

10 Responsibilities held at Institution Level
 1. Institute level member of SC/ST Cell.
 2. Member Green energy audit committee.
 3. Internal ISO Auditor 2017 to 2021.
 4. Member, SHRUTI Faculty Sports 2012 to 2020.
 5. Member EDC Cell.
 6. Member Energy audit committee
 7. Worked as Disciplinary committee member for SHRUTHI-2024.

1. In charge for Department Time tables 2012 to till Date.
 2. ISO Coordinator 2015 to till date.
 3. NAAC, Department Level Committee Member, 2017.
 4.Incharge for Industrial Visits 2017 to till date
 5.Incharge for Organizing Guest Lectures 2017 to 2019
 6. In charge for Website Maintenance 2015 to 2019.
 7. Faculty Class Coordinator 2011 to 2020.
 8.Incharge for Academic Audit 2019 to 2020

11 Responsibilities held at Department Level
 9. In charge Department Library 2015 to 2019.
 10. In charge for various Laboratories.
 11. In charge Graduation Day 2018 & 2019.
 12. Anti-ragging Committee Member.
 13.NBA Coordinator
 14.IICHe Student chapter Coordinator
 15. CAMU Coordinator.
 16.CEG Convener
 17. Member of Academic audit.
 18. ERP Coordinator.

		19.PAQIC Committee member
		20..DAB Committee member
12	Research Guidance	1. Guided for M.Tech project on “Enhancement of Heat Transfer coefficient in Corrugated Plate Heat Exchanger”. 2. 30 UG Projects guidance for final year students.
13	Awards Received	1.High Appreciation for significant contributions to IChE-HRC on 29-07-2023 2. Outstanding contribution to CBIT-IChE student chapter of Chemical Engineering, Chaitanya Bharathi Institute of Technology, Hyderabad, on 09-04-2022,
14	Courses Handled at Under Graduate Level	Chemical Engineering Thermodynamics –I & II, Chemical & Bio Chemical Thermodynamics, Mass Transfer Operations-I, Material & Energy Balance Calculations, Organic Chemical Technology, Inorganic Chemical Technology, Material Science & Instrumentation, Fertilizer Technology, Mineral Processing Technology, Energy Engineering, Safety Hazard Analysis.
15	No. of Papers Published	National Journals – Nil International Journals –14 National Conference – 05 International Conference – 09
16	Projects Carried out	Recipient of project grants for final year students of B.Tech in Chemical Engineering project entitled as “Production of biodiesel from waste cooking oil in presence of liquid and solid catalysts” has been selected for the project grant of Rs. 10,000/- (Ten Thousand only) for the year 2022-23.
17	Patents	1.Filed patent on”Agitator having mixing shaft with dissimilar impellers for homogeneous mixing of non-newtonian fluids” No: 202441058603, dated:09/08/2024
18	Technology Transfer	--
19	Invited Speaker	--
20	No. of Books/Chapter Published with details	--
		Conducted one week online FDP on “Empowering educators: AI Tools for Engineering & Technology” from 29/01/24 to 02/02/2024
		Attended 01 week FDP ON “Industrial waste water management” organized by Haldia Institute of Technology from 28/08/2023 to 01/09/2023.
		Attended 01 week FDP ON “Big bata analytics with spark” organized by CBIT, IT department from 01/02/2024 to 06/02/2024.
		Conducted one week online FDP on “Empowering educators: AI Tools for Engineering & Technology” from 29/01/24 to 02/02/2024.
		Participated in AICTE recognized Short Term Course organized by National Institute of Technical Teachers Training and Research, Chandigarh MINISTRY OF EDUCATION, GOVERNMENT OF INDIA On 2D Nano materials: Potential & Applications through ICT conducted by Applied Science Department from 17.10.2022 to 21.10.2022 (One Week) at Chaitanya Bharathi Institute of Technology, Hyderabad (Telangana).
21	Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops. Other Trainings (Attended and/or Organized).	Attended 3 rd International Conference on “ Chemical, Bio &Environmental Engineering (CHEMBIOEN 2022) held at Department of Chemical Engineering, B V Raju Institute of Technology, Narsapur in collaboration with Dr B R Ambedkar National Institute of Technology, Jalandhar on 4th -5th November 2022. Attended Online One Week FDP AICTE sponsored Short Term Training Programme (STTP) on "Recent Trends in Emerging Devices & Nano technology Phase-I held during 1st to 6th June 2021 organized by the National Institute of Science & Technology, Berhampur, India. Faculty Development Programme (online mode) on "Recent Trends In Advanced Materials Science and Engineering Technology (RTAMSET-21)" organized by Chemistry department,CBIT,8th to 12th March 2021. Attended three-day online workshop on "Future of Chemical Engineering" sponsored by TEQIP-III and jointly organized by the Department of Chemical Engineering, IIT (ISM) Dhanbad and IChE, Dhanbad Regional Center during 19th – 21st March 2021.

Attended AICTE Sponsored Faculty Development Programme (Online Series - I) on "RECENT TRENDS IN NANO MATERIALS AND ITS APPLICATIONS (NANO-APP 2021)" organized by Department of Chemical Engineering, Coimbatore Institute of Technology, Coimbatore – 641 014, Tamil Nadu, India during 15th - 27th February 2021

Attended Online One Week FDP on "Recent Innovations in Chemical Engineering (RICE)" Organized by Department of Chemical Engineering, BKIT Bhalki from 29th June to 03rd July, 2020.

Attended Online One Week FDP on OUTCOME BASED EDUCATION Conducted by Govt. Engineering College, Karad Association with AICTE, Delhi, 2020.

Attended Online One Week FDP on OUTCOME BASED EDUCATION & NBA Accreditation Conducted by CBIT, Hyderabad, 2020.

Attended Online One Week FDP on Technical Teachers Training Conducted by AISSE Engineering College, Pune, 2020.

Completed 08 Weeks Online NPTEL Certification course on "Waste to Energy Conversion". February and March, 2020.

Completed 12 Weeks Online NPTEL Certification course on "NBA Accreditation and Teaching - Learning in Engineering (NATE)" January to March, 2020.

Participated and Received Certificate 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 28th April to 22nd May 2020 during COVID-19 nationwide Lockdown.

Attended 10 Online Leadership Talks Organized by MHRD, AICTE, New Delhi, 2020

Organized national conference on "advanced research and technology in chemical engineering and its allied fields" Theme: *Exploring the latest trends in Process Engineering* (22nd & 23rd MARCH 2019).

Attended one day workshop on "Usage of ICT Tools in Teaching Learning Process" at In-house training centre CBIT Hyderabad, 2019.

Organized One day workshop on "*The best manufacturing practices in chemical industry*" in Collaboration with *Dr.Reddy Labs, Hyd* for B.Tech Chemical Engg students (1st yr to 4th yr) on Jan 31st 2018.

Attended One week AICTE QIP Short Term Course on "Development of Chemical Engineering Thermodynamics Laboratory for Under graduates" Organized by IIT, Madras, from January 21-27, 2018.

Convener, CHEMSPARK-2K15, 2K16, 2K17 & 2K19, TWO-DAY National level students' technical symposium, organized under the banner of SUDHEE in CBIT campus, Hyderabad.

International/National Journals from the Year 2017

1. Recovery of Copper by Using Flotation Techniques and microbe- mineral surface interaction, Published in International Journal of Engineering & Technology, 7 (3.29) (2018) 732-736, IJET (UAE) **Scopus Indexed** Journal, 2018.
2. "Effects of operating Parameters on Recovery of non-floatable Coal by Column flotation" International Journal of Applied Engineering Research ISSN 0973-4562 Volume 13, Number 12 (2018) pp. 10462-10469
3. "Effectiveness of Bio-Activated Carbon Filtration and Ozonation on Control of Halo Acetic Acids Formation during Chlorination of Ganga River Water at Kanpur, India" Ozone: Science & Engineering, The Journal of the International Ozone Association, **SCI Journal**, ISSN: 0191-9512 (Print) 1547-6545 (Online) Journal homepage: <https://www.tandfonline.com/loi/bose20>.
4. "Recovery of Cu from Complex Ore (Cu-Zn) by Floc-Flotation" International Journal of Engineering, Applied and Management Sciences Paradigms (IJEAM), UGC Approved Journal, Volume 54 Issue 2 May 2019, ISSN 2320-6608, Pg 229-233.

- 5."Enhancement of Heat transfer rate by using Plate type Heat Exchanger "The International journal of analytical and experimental modal analysis UGC Approved Journal, Volume 54 Issue 2 May 2019, ISSN 0886-9367, Pg. 201-205.
6. "Optimization Techniques for thermal conductivity based on CuO Nano fluid" Journal of Engineering Sciences UGC Approved Journal, Volume 4 Issue 3 May 2020,ISSN 0377-9254,Pg 101-104.
7. "The Concrete Incorporated With Zeolite for Reducing Atmospheric Carbon Dioxide. "International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-8 Issue-6, March 2020 March, 2020. Elsevier Scopus Index Journal.
- 8."Exploration for strategic placer mineral deposits in a fluctuating shoreline: Depositional environment and mineralogical characterization of the NE Odisha coast placers, India" Elsevier, Ore Geology Reviews 127 (2020) 103850.<https://doi.org/10.1016/j.oregeorev.2020.103850>.
- 9."Extraction of finely dispersed low grade Iron ore by froth flotation", European Journal of Molecular & Clinical Medicine,ISSN 2515-8260,Volume 07, Issue10 , 2020.
10. "Experimental Work on Behavior of Frictional Flow of Fluid in a Pipe" International Journal for Modern Trends in Science and Technology, 7(12): 304-310, 2021, International Journal for Modern Trends in Science and Technology ISSN: 2455-3778 online DOI: <https://doi.org/10.46501/IJMTST0712059>.
- 11."Production of Bio Oil from plastic waste" Elsevier Materials Today proceedings, November, 2022.
12. A review on the biodiesel production: Selection of catalyst, Pre-treatment, Post treatment methods Green Technologies and Sustainability journal homepage: <https://www.keaipublishing.com/en/journals/green-technologies-and-sustainability/>

National / International Conference Proceedings from the Year 2017

1. Presented Paper on "A Study on fine Coal beneficiation using Hydro cyclone Classifier" International conference on Mineral Processing Technology, Chennai, 2018.
2. Presented Paper on "Recovery of Copper by Using Flotation Techniques and microbe- mineral surface interaction" at International Conference held at BVRIT, Narsapur, 2018.
3. Presented Paper on "Fuel oil from plastic waste" International e-Conference on Materials Processing & Characterization (ICMP&C-2020) on 18th & 19th September, 2020.Chaitanya Bharathi Institute of Technology (A), Hyderabad.
4. Presented Paper on " Extraction of finely dispersed low grade Iron ore by froth flotation", International e-Conference on Sustainable Innovation, research & emerging trends in Entrepreneurship held at Pratap University, Jaipur 06th April,2021.
5. Presented paper on "Production of Bio Oil from plastic waste" at International Conference on Advances in Chemical and Material Sciences (ACMS-2022) On the occasion of Platinum Jubilee Year of Indian Institute of Chemical Engineers.
- 6.Presented a paper entitled "Recovery of Pb and Zn minerals from complex ore by using microbe mineral surface interaction" 3rd International Conference on " Chemical, Bio &Environmental Engineering (CHEMBIOEN 2022) held at Department of Chemical Engineering, B V Raju Institute of Technology, Narsapur in collaboration with Dr B R Ambedkar National Institute of Technology, Jalandhar on 4th -5th November 2022.
7. Presented a paper on "Effect of deposition time on the optical properties of electrodeposited copper nanostructures" at International e-symposium on materials development and scale-up for membrane separation, sensing, energy and biological applications on 24-25th January, 2023.
8. Presented a paper on "Design of proton exchange membrane fuel cell stack" at International e-symposium on materials development and scale-up for membrane separation, sensing, energy and biological applications on 24-25th January, 2023.
9. Presented a paper on "Synthesis and characterization of bio lubricants from vegetable oils" in SUDHEE 2022 at CBIT, Hyderabad.
10. Presented a paper on "Production of ethanol from different milk diary waste by fermentation" in SUDHEE 2022 at CBIT, Hyderabad.
11. Presented a paper on "A Brief review of the production methods of sorbitol" in SUDHEE 2022 at CBIT, Hyderabad.
12. Presented a paper on "Modelling, Design and experimental evaluation of Absorber system.
13. Presented a paper on ".Bio production of advanced biomaterials.
14. Presented a paper on "Preparation & Characterization of carbon products by coal.