Name of Faculty	Dr. BVS Praveen
Designation	Assistant Professor
Nature of Job/Appointment	Regular
Date of Joining	09.05.2022
E-mail:	bvspraveen_chem@cbit.ac.in

Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (Chemical Engineering)	First Class
PG	M.Tech. (Chemical Engineering)	First Class
UG	B.Tech. (Chemical Engineering)	First Class with Distinction

Work Experience

Teaching	09 Years
Research	04 Years
Industry	-
Others	-

Area of Specialization	Catalysis, Nanomaterials, chemical mechanical polishing
Professional Memberships	IICHE LM – 62470
Responsibilities held at Institution Level	Member Canteen Committee, Member IUCEE student Chapter CBIT
Responsibilities held at Department Level	Class Teacher, NPTEL Coordinator, Internship Coordinator, Faculty Incharge – Computer Lab (Nov 2022 – Till Date)
Research Guidance	M.Tech: 3 Students B.Tech: 20 Students
Awards Received	--
Courses Handled at Under Graduate / Post Graduate Level.	Fluid Mechanics, Heat Transfer, Chemical Reaction Engineering, Energy Engineering, Universal Human Values – II, Corrosion Engineering, Instrumentation, and Material Characterization.
No. of Papers Published	National Journals – Nil; International Journals – 13 National Conference – Nil; International Conference – 5
Projects Carried out	--
Patents	3(granted) 1 (published) 1. A curved rectangular stack channel heat exchanger (Granted) 2. Lanthanum doping of ceria abrasive to obtain robust CMP polish rates (Granted). 3. Rotary distillation column for industrial purposes (Published) 4. Corrugated plate heat exchanger with microwave heating for various industrial applications. (Granted).
Technology Transfer	--
Invited Speaker	1. Online Guest lecture on "Applications of nanotechnology in chemical engineering" conducted on 25th September 2020 at Govt. Polytechnic, Daman. 2. Online Guest lecture on "Importance of utility management in chemical industry" conducted on 10th July 2020 at Govt. Polytechnic, Daman. 3. Online Guest Lecture on "Applications of AI in Process Engineering" conducted during 29th January and 2nd February 2024 at the Department of Chemical Engineering, CBIT, Hyderabad.

4. Online Guest Lecture on "Synthesis, Characterization, and Applications of Hybrid Nanoparticles" conducted on 29th January and 2nd February 2024 at the Department of Biotechnology, CBIT, Hyderabad.

No. of Books/Chapter Published with details

Books

1. Physical Refining of Membrane Ultrafiltration Degummed Rice Bran Oil. LAP LAMBERT Academic Publishing (2021)

Book Chapters

1. **BVS Praveen**, Raj Kumar Verma, U. Appalanaidu, G. B. Radhika, and S. Sai Narender (2024). Stimuli-responsive polymer nanocomposite films and coatings, in Polymer Nanocomposite Films and Coatings, Elsevier, 219–257.
2. A V Raghavendra Rao, R Srividya, V. Sravani Sameera, Bhaskar Bethi, K S N V Prasad, T Srinivas, B. Ganesh, **BVS Praveen** (2024). Safety first: managing hydrogen in production, handling, and applications, in Sustainable Hydrogen Energy, R. K. Arya, A. K. Tiwari, G. Verros, P. Malik, and J. P. Davim, Eds., De Gruyter, 275–304.
3. **BVS Praveen**, P. Madhuri, R. K. Verma, A. Ashok, and S. G. Deshmukh (2024). Metal Oxide Thin Films: A Comprehensive Study of Synthesis, Characterization and Applications," in Thin Film Nanomaterials: Synthesis, Properties and Innovative Energy Applications, S. G. Deshmukh, V. Kheraj, K. J. Karande, and S. G. Kulkarni, Eds., Bentham Science Publishers, 166–198.
4. **BVS Praveen** and R. Sinha (2024). Environmental aspects of food waste-to-energy conversion, in Biodegradable Waste Processing for Sustainable Developments, 1st ed., Boca Raton: CRC Press, 173–195.

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

1. One-week online ATAL FDP on "Nanotechnology" from 24.08.2020 to 28.08.2020 organized by the Department of Chemical Engineering, VNIT, Nagpur.
2. One-week online ATAL FDP on "Alternate Fuels" from 01.09.2020 to 05.09.2020 organized by Engineering College, Bikaner.
3. 5-day online FDP on "Inculcating Universal Human Values in Technical Education" from 06.06.2022 to 10.06.2022 organized by AICTE.
4. One-week online FDP on "Smart Materials Processing and Applications" from 25.07.2022 to 29.07.2022 organized by the Applied Science Department, NITTTR, Chandigarh.

Details of Journal Publications/ Conferences
(**National and International**)

1. **BVS Praveen**, R. Manivannan, T. D. Umashankar, B.-J. Cho, J.-G. Park, and S. Ramanathan (2014), Abrasive and additive interactions in high selectivity STI CMP slurries, Microelectronic Engineering, 114, 98–104.
2. **BVS Praveen**, J.-G. Park, and S. Ramanathan (2014). Effect of La doping of ceria abrasives for STI CMP, ECS Transactions, 61(17),27.
3. **BVS Praveen**, B.-J. Cho, J.-G. Park, and S. Ramanathan (2015). Effect of lanthanum doping in ceria abrasives on chemical mechanical polishing selectivity for shallow trench isolation, Material Science in Semiconductor Processing, 33, 161–168.
4. F. Fasmin, **BVS Praveen**, and S. Ramanathan (2015). A Kinetic Model for the Anodic Dissolution of Ti in HF in the Active and Passive Regions, Journal of Electrochemical Society, 162 (9), H604–H610.
5. S. B. Potdar, **BVS Praveen**, and S. H. Sonawane (2020), Sonochemical approach for synthesis of zinc oxide-poly methyl methacrylate hybrid nanoparticles and its application in corrosion inhibition,"Ultrasonics Sonochemistry, vol. 68,

105200.

6. N. Nanda Kumar and **BVS Praveen** (2020). Pulsatile Oldroyd-B blood flow dynamics in a stenosed artery, International Journal of Advances in Engineering Sciences and Applied Mathematics, vol. 12, no. 3, pp. 233–241, 2020.
7. A. N. Uttaravalli, S. Dinda, B. Bethi, **BVS Praveen**, and G. Bhanu Radhika (2022). Use of additives to improve bonding strength of the adhesive prepared from used polymer: Sustainable management approach, Materials Today: Proceedings, 59(1), 120–127.
8. S. S. Narender, V. S. Varma, C. Sai Srikar, J. Ruchitha, P. Adarsh Varma, and **BVS Praveen** (2022). Nickel Oxide Nanoparticles: A Brief Review of Their Synthesis, Characterization, and Applications, Chemical Engineering & Technology, 45(3), 397–409.
9. N. Sadhana, **BVS Praveen**, G. Jyothi, and P. Vishnu (2022). Design and evaluation of nanostructured formulations of rosuvastatin, Materials Today: Proceedings, 72(1), 465–470.
10. S. Noothi, N. Malothu, V. Pulavarthy, and **BVS Praveen** (2024). Development of Nanosponge Formulations of Rosuvastatin for Oral Delivery Using a Central Composite Design, Indian journal of Pharma Education and Research, 58(3), 784–793.
11. N Laxmiprasanna, P Sandeep Reddy, G Shiva Kumar, M Balakrishna Reddy, Kiran Kumar Ganta, Venkata Ramana Jeedi, **BVS Praveen** (2022). A review on nano composite polymer electrolytes for high-performance batteries, Materials Today: Proceedings, 72(1), 286–292.
12. **BVS Praveen**, Narayan C. Pradhan, A. Ashok, R. K. Guduru, R. K. Vij, and Lakshmana Rao Jeeru (2023). Production of biodiesel: kinetics and reusability studies of the Mg–Al hydrotalcite catalyst using Jatropha oil, Reaction Chemistry & Engineering, 8(7), 1729–1737.
13. Lakshmana Rao Jeeru, Narayan C. Pradhan, P. Naveen, R. K. Guduru, and **BVS Praveen** (2024). Sustainable synthesis of automobile fuel additive from glycerol and acetone and catalyst reusability studies, Chemical Papers, 78(1), 321–329.

International Journal from the year 2017

1. S. B. Potdar, **BVS Praveen**, and S. H. Sonawane (2020), Sonochemical approach for synthesis of zinc oxide-poly methyl methacrylate hybrid nanoparticles and its application in corrosion inhibition,"Ultrasonics Sonochemistry, vol. 68, 105200.
2. N. Nanda Kumar and **BVS Praveen** (2020). Pulsatile Oldroyd-B blood flow dynamics in a stenosed artery, International Journal of Advances in Engineering Sciences and Applied Mathematics, vol. 12, no. 3, pp. 233–241.
3. A. N. Uttaravalli, S. Dinda, B. Bethi, **BVS Praveen**, and G. Bhanu Radhika (2022). Use of additives to improve bonding strength of the adhesive prepared from used polymer: Sustainable management approach, Materials Today: Proceedings, 59(1), 120–127.
4. S. S. Narender, V. S. Varma, C. Sai Srikar, J. Ruchitha, P. Adarsh Varma, and **BVS Praveen** (2022). Nickel Oxide Nanoparticles: A Brief Review of Their Synthesis, Characterization, and Applications, Chemical Engineering & Technology, 45(3), 397–409.
5. N. Sadhana, **BVS Praveen**, G. Jyothi, and P. Vishnu (2022). Design and evaluation of nanostructured formulations of rosuvastatin, Materials Today: Proceedings, 72(1), 465–470.
6. N Laxmiprasanna, P Sandeep Reddy, G Shiva Kumar, M Balakrishna Reddy, Kiran Kumar Ganta, Venkata Ramana Jeedi, **BVS Praveen** (2022). A review on nanocomposite polymer electrolytes for high-performance batteries, Materials Today: Proceedings, 72(1), 286–292.
7. **BVS Praveen**, Narayan C. Pradhan, A. Ashok, R. K. Guduru, R. K. Vij, and Lakshmana Rao Jeeru (2023). Production of biodiesel: kinetics and reusability studies of the Mg–Al hydrotalcite catalyst using Jatropha oil, Reaction Chemistry & Engineering, 8(7), 1729–1737.
8. Lakshmana Rao Jeeru, Narayan C. Pradhan, P. Naveen, R. K. Guduru, and **BVS Praveen** (2024). Sustainable synthesis of automobile fuel additive from glycerol and acetone and catalyst reusability studies, Chemical Papers, 78(1), 321–329.
9. S. Noothi, N. Malothu, V. Pulavarthy, and **BVS Praveen** (2024). Development of Nanosponge

Formulations of Rosuvastatin for Oral Delivery Using a Central Composite Design, Indian journal of Pharma Education and Research, 58(3), 784–793.

International /National Conferences from the year 2017

Articles contributed in Encyclopedia: NIL
Popular Articles in Magazine: NIL