

Name of Faculty Dr. B V S 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	07 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 Publicity – Chemspark2023, Member IUCEE student Chapter CBIT

Responsibilities held at Department Level Class Teacher, NPTEL Coordinator, Internship Coordinator for SEM III, Faculty Incharge – Computer Lab (Nov 2022 – Till Date)

Research Guidance M.Tech: 3 Students B.Tech: 15 Students

Awards Received --

Courses Handled at Under Graduate / Post Graduate Level. Heat Transfer, Fluid Mechanics, Reaction Engineering, Nanotechnology, Universal Human Values- II, Corrosion Engineering, Energy Engineering.

No. of Papers Published National Journals – Nil International Journals – 9  
 National Conference – Nil International Conference – 5

Projects Carried out --

**1(granted) 3 (published)**

Patents

1. A curved rectangular stack channel heat exchanger (Granted)
2. Lanthanum doping of ceria abrasive to obtain robust CMP polish rates (Published).
3. Rotary distillation column for industrial purposes (Granted)
4. Corrugated plate heat exchanger with microwave heating for various industrial applications. (Published).

Technology Transfer --

Invited Speaker

1. Online Guest lecture on “Applications of nanotechnology in chemical engineering” conducted on 25<sup>th</sup> September 2020 at Govt. Polytechnic, Daman.
2. Online Guest lecture on “Importance of utility management in chemical industry” conducted on 10<sup>th</sup> July 2020 at Govt. Polytechnic, Daman.

#### Books

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

No. of Books/Chapter Published with details

#### Book Chapters

1. Nanotechnology – A multidiversified approach for smart materials
2. Herbal medicine – A benign and conventional medical system
3. Handbook of marine microbes – The therapeutic prospective and applications.
4. Role of basic sciences in modern engineering education

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 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 Applied Science Department, NITTTR, Chandigarh.

Details of Journal Publications/Conferences (National and International)

1. **B.V.S. Praveen**, R. Manivannan, T.D. Umashankar, B.-J. Cho, J.-G. Park, S. Ramanathan, Abrasive and additive interactions in high selectivity STI CMP slurries, Microelectronic Engineering, 114 (2014) 98–104.
2. **B.V.S. Praveen**, B.-J. Cho, J.-G. Park, S. Ramanathan, Effect of lanthanum doping in ceria abrasives on chemical mechanical polishing selectivity for shallow trench isolation, Materials Science in Semiconductor Processing, 33 (2015) 161–168.
3. **B.V.S. Praveen**, J.-G. Park, S. Ramanathan, Effect of La Doping of Ceria Abrasives for STI CMP, ECS Trans. 61 (2014) 27–35.
4. F. Fasmin, **B.V.S. Praveen**, S. Ramanathan, A Kinetic Model for the Anodic Dissolution of Ti in HF in the Active and Passive Regions, J. Electrochemical Society 162 (2015) H604–H610.
5. N.N. Kumar, **B.V.S. Praveen**, Pulsatile Oldroyd-B blood flow dynamics in a stenosed artery, International Journal of Advances in Engineering Sciences and Applied Mathematics 12 (2020) 233–241.
6. S.B. Potdar, **B.V.S. Praveen**, S.H. Sonawane, Sonochemical approach for synthesis of zinc oxide-poly methyl methacrylate hybrid nanoparticles and its application in corrosion inhibition, Ultrasonics Sonochemistry, 68 (2020) 105200.
7. S.B. Potdar, C.-M. Huang, **B.V.S. Praveen**, S. Manickam, S.H. Sonawane, Highly Photoactive Titanium Dioxide Supported Platinum Catalyst: Synthesis Using Cleaner Ultrasound Approach, Catalysts, 12 (2022) 78.
8. S.S. Narender, V.V.S. Varma, C.S. Srikar, J. Ruchitha, P.A. Varma, **B.V.S. Praveen**, Nickel Oxide Nanoparticles: A Brief

- Review of Their Synthesis, Characterization, and Applications, Chemical Engineering & Technology 45 (2022) 397–409.
9. A.N. Uttaravalli, S. Dinda, B. Bethi, **B.V.S.Praveen**, B.R. Gidla, Use of additives to improve bonding strength of the adhesive prepared from used polymer: Sustainable management approach, Materials Today: Proceedings. 59 (2022) 120–127.
  10. N.Laxmiprasanna, P. Sandeep Reddy, G. Shiva Kumar, M. Balakrishna Reddy, Kiran Kumar Ganta, Venkata Ramana Jeedi, **B.V.S.Praveen**, A review on nano-composite polymer electrolytes for high-performance batteries, Materials Today: Proceedings. 72(2023) 286-292.
  11. N.Sadhana, **B.V.S.Praveen**, G.Jyothi, P.Vishnu, Design and evaluation of nanostructured formulations of rosuvastatin, Materials Today: Proceedings 72(2023) 465-470.

#### International Journal from the year 2017

1. N.N. Kumar, **B.V.S. Praveen**, Pulsatile Oldroyd-B blood flow dynamics in a stenosed artery, International Journal of Advances in Engineering Sciences and Applied Mathematics 12 (2020) 233–241.
2. S.B. Potdar, **B.V.S. Praveen**, S.H. Sonawane, Sonochemical approach for synthesis of zinc oxide-poly methyl methacrylate hybrid nanoparticles and its application in corrosion inhibition, Ultrasonics Sonochemistry. 68 (2020) 105200.
3. S.B. Potdar, C.-M. Huang, **B.V.S. Praveen**, S. Manickam, S.H. Sonawane, Highly Photoactive Titanium Dioxide Supported Platinum Catalyst: Synthesis Using Cleaner Ultrasound Approach, Catalysts. 12 (2022) 78.
4. S.S. Narender, V.V.S. Varma, C.S. Srikar, J. Ruchitha, P.A. Varma, **B.V.S. Praveen**, Nickel Oxide Nanoparticles: A Brief Review of Their Synthesis, Characterization, and Applications, Chemical Engineering & Technology 45 (2022) 397–409.
5. A.N. Uttaravalli, S. Dinda, B. Bethi, **B.V.S.Praveen**, B.R. Gidla, Use of additives to improve bonding strength of the adhesive prepared from used polymer: Sustainable management approach, Materials Today: Proceedings. 59 (2022) 120–127.
6. N.Laxmiprasanna, P. Sandeep Reddy, G. Shiva Kumar, M. Balakrishna Reddy, Kiran Kumar Ganta, Venkata Ramana Jeedi, **B.V.S.Praveen**, A review on nano-composite polymer electrolytes for high-performance batteries, Materials Today: Proceedings. 72(2023) 286-292.
7. N.Sadhana, **B.V.S.Praveen**, G.Jyothi, P.Vishnu, Design and evaluation of nanostructured formulations of rosuvastatin, Materials Today: Proceedings 72(2023) 465-470.

#### International /National Conferences from the year 2017

Articles contributed in Encyclopedia: NIL

Popular Articles in Magazine: NIL

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