

Name of Faculty Dr. P. V. NAGA PRAPURNA  
 Designation Associate Professor  
 Nature of Job/Appointment Regular  
 Date of Joining 17-06-1998  
 E-mail nagaprapurna\_chem@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (Environmental Science & Technology) - 2009	Awarded
PG	M. Tech in Chemical Engineering - 1992	Distinction
UG	B. Tech in Chemical Engineering - 1990	Distinction

#### Work Experience

Teaching	24 Years (CBIT, Hyderabad)
Research	03 years (IICT, Hyderabad)
Industry	15 Months (Bard and Beaver Industries, Mallapur, Hyderabad), 03 Months (Tejaswiny Rasayanas Limited, Secunderabad)
Others	--
Area of Specialization	Chemical Engineering, Environmental Engineering Life Member of IICHE (Indian Institute of Chemical Engineers, India)
Professional Memberships	(with Membership No.: LM-11440)

Responsibilities held at Institution Level	<ol style="list-style-type: none"> <li>Incharge HoD from 31-05-2021 upto 28-03-2023.</li> <li>Member, Academic council as Incharge HoD.</li> <li>Convener, Women Development Cell, CBIT, from 12-04-2021 onwards.</li> <li>Faculty coordinator, Chaitanya Svaasthya club, 20-01-2019 onwards.</li> <li>Vice-Chairman, Chaitanya Reethi-The life style club 24-07-2019 onwards.</li> <li>Member, Grievance Redressal committee, 15-03-2019 to 24-02-2020.</li> <li>Head of the department, 18-05-2015 to 18-08-2017</li> <li>Member, Academic council as HoD.</li> </ol>
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Responsibilities held at Department Level	<ol style="list-style-type: none"> <li>Chairman, BoS, as Incharge - HoD</li> <li>Chairman, Departmental Research Committee as Head</li> <li>Convener, Departmental Research Committee</li> <li>Member, Board of Studies</li> <li>Member, Course Expert Groups</li> <li>Coordinator, Faculty data compilation for AICTE and Surveys</li> <li>Member – Anti-ragging Committee Member</li> <li>Member, NBA renewal process team</li> <li>Member, NAAC renewal process team</li> </ol>
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Research Guidance Department offers only U.G program in Chemical Engineering.  
 Guiding UG students' projects as part of the degree.

Awards Received	<ol style="list-style-type: none"> <li>Pride of Education Teachers Day Award 2021 as 'Excellence in Academics', by ESN Publications, Pondicherry, India.</li> <li>Best Academic Familiar Female Faculty Award" April 2021, given only for South Indians, instituted by the governing council of 'The Association of Scientists, Developers and Faculties', United Kingdom, as South Indian ASDF Award (SIAA), at Puducherry.</li> </ol>
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3. Won certificate for participation in World Book of Records, United Kingdom contributed a book chapter in the "Thickest book in the world comprising of 11,796 pages, titled, Latest Innovations for Future Education (LIFE-2021)", ESN publications, Tamilnadu, January, 2021.
4. Technical coordinator and chairmanship for online oral presentation sessions, CHEMCON-2020, Exploring Recent Trends in Chemical Engineering", Indian Chemical Engineering Congress & 73rd Annual Session of Indian Chemical Engineers, jointly organized by Indian Institute of Chemical Engineers (IChE) Headquarters and Hyderabad Regional Centre, 27-12-2020 to 29-12-2020.
5. Jury member for national level competitions held online by "Women Scientists and Entrepreneurs Conclave" conducted as part of 'India International Science Festival (IISF-2020), by Ministry of Science and Technology, Govt of India, from 22-12-2020 to 25-12-2020.
6. "Rashtriya Shiksha Ratan Award 2018" given by The National Achievers Recognition Forum, New Delhi during National Seminar on "Individual Achievements, Intellectual Excellence & National Development.
7. Global Education Excellence Awards 2016 as "Best Teacher for Chemical Engineering and Biotechnology in Telangana", by Prime Time Research Media Private Limited, New Delhi.

**Undergraduate chemical engineering:**

Material science for chemical engineers, Process instrumentation, Process modeling simulation optimization, Process equipment design, Process dynamics control, Material science and instruments, Organic surface coating technology, Computer applications in process industries, Equipment design drawing lab, Process Dynamics & Control (theory & lab), Fluid Mechanics lab, Nuclear engg,

**Undergraduate Biotechnology:**

Bioprocess dynamics and control, Computer applications in bioprocesses, Environmental studies.

**Undergraduate Mechanical Engg, Production engg., EEE**

Environmental studies (Mandatory non-credit course), Environmental Science (Mandatory non-credit course)

Courses Handled at Under Graduate / Post Graduate Level.

National Journals – 01

International Journals – 13

No. of Papers Published

National Conference – 07

International Conference – 20

**Non-funded - collaborative - students UG projects:**

1. Supervisor, UG Project, for one year collaborative research work with industry supervisor, Mr. Sydulu, R&D Manager, M/s Sparkvee Fine Chemicals Pvt. Ltd. Cherlapally, Hyderabad, for two CBIT undergraduate students on project titled "Kinetic study for increasing the yield of Ambroxol Hydrochloride Intermediate" carried out in Hyderabad, 26-08-2022 to 15-04-2023.
2. Supervisor, UG-Project, for one year collaborative research work with team members from M/s Green Waves Environmental solutions, Visakhapatnam, through MoU with CBIT, as external supervisor for two CBIT undergraduate students on project titled "Replenishing the earth - Biocomposting of dry green waste", carried out at Hyderabad office, 03-08-2021 to 29-04-2022.
3. Supervisor, UG Project, for one year collaborative research work with Dr. Srinath Suraneni, Associate Prof., department of chemical engineering, NIT-Warangal, external supervisor for two CBIT undergraduate students on project titled 'Simulation Studies on Pyrolysis of Agricultural Waste Biomass', carried out at CBIT campus, 03-08-2021 to 29-04-2022.
4. Supervisor, UG-Project, four months collaborative research

Projects Carried out

work with team members from M/s Green Waves Environmental solutions, Visakhapatnam, through MoU with CBIT, as external supervisor for two CBIT undergraduate students on project titled "Design of Aroma Industry with Floral Waste as Raw Material", carried out at Hyderabad office, 18-02-2021 to 31-05-2021.

5. Supervisor, UG Project, four months collaborative research work with Dr. Ananth Reddy M, Assistant General Manager (Chemical Research Division), Innovare Labs, Hyderabad, as external supervisor for two CBIT undergraduate students on project titled "Kinetic Studies for increasing the yield of Olmesartan Intermediate", carried out at Innovare Labs, Hyderabad, 24-02-21 to 31-05-21.
6. Supervisor, UG Project, six months collaborative research work with Senior scientist Ms. Siva Ramya Sanam, CSIR-NEERI, external supervisor for two CBIT undergraduate students on project titled 'Lake water characterization, water quality index and simulation analysis' carried out at NEERI, Hyderabad Zonal Centre, Tarnaka, Hyderabad, 18-12-2019 to 11-05-2020.
7. Supervisor, UG Project, for one year collaborative research work with Dr. Srinath Suraneni, Associate Prof., department of chemical engineering, NIT-Warangal, external supervisor for two CBIT undergraduate students on project titled 'Catalytic esterification for semi-batch reactive distillation for the synthesis of methyl acetate', carried out at NIT-Warangal, during 24-06-19 to 12-03-20.
8. Supervisor, UG Project, for six months collaborative research work with Ms. Siva Ramya Sanam, CSIR -NEERI, as external supervisor and Ms. A. Priyanka, Assistant Prof., Biotech as supervisor for three CBIT Biotech undergraduate students, 'Effect of nanoparticles on lake water treatment' carried out at NEERI, Hyderabad Zonal Centre, Tarnaka, Hyderabad, 01-01-2020 to 12-03-2020.
9. Supervisor for six months experimental and simulation-based research work with Dr. Srinath Suraneni, Associate Prof., department of chemical engineering, NIT-Warangal, external supervisor for two CBIT undergraduate students, 'Hydrothermal carbonization, modeling and simulation analysis', carried out at Department of Chemical Engineering, NIT-Warangal campus, during 04-06-2018 to 03-12-2018.
1. Resource person for delivering invited talk on 'Challenges in chemical process industry - our role to play' at one-day seminar on 'Emerging trends in chemical technology', organized by department of chemical technology, Loyola degree and PG college, Secunderabad, on 08-01-2019.
2. Resource person for delivering invited talk on 'Clean Technologies in Pharmaceutical sector', at three-day National training program on 'Clean Development Mechanism: Project Implementation for Industrial Sector, Energy Sector, Mining Sector and Carbon Trading', organized by EPTRI, Gachibowli, Hyderabad and Central pollution control board, 27-11-2017 to 29-11-2017.
3. Resource person for delivering invited talk on 'Solid/Hazardous Waste Management in Urban Environment' at two day National Workshop on 'Urban Environmental Management-Solutions for Sustainability' (UEM-2017), organized by CSIR-NEERI Hyderabad Zonal centre, 18-08-2017 to 19-08-2017.
1. Naga Prapurna, M. Viswanatham, Srinath S, book chapter for 'World Book of Records, United Kingdom' titled "Selectivity of metal oxide slag for simultaneous removal of interactive pollutants from electroplating effluent at industry discharge conditions using novel non-glass columns", in 'Thickest book in the world of 11,796 pages "Latest Innovation for Future

Invited Speaker

No. of Books/ Chapter Published with details

Education (LIFE)", S.No 105, pp10887-10914, ESN publications, Tamilnadu, India, Jan 2021.

2. Anjani Mamidala, Akanksh Mamidala, P V Naga Prapurna, Srinath Suraneni, book chapter titled "Green organic synthesis by carbondioxide conversion" 10th Chapter, pp 251-262, Elsevier publications, in the book titled Green sustainable process for chemical and environmental Engineering and Science, Sep 2020.
3. B. Sai Rohith, Naga Prapurna, Kuldeep B. Kamble, Rajmohan K. S., S. Srinath, "Hydrothermal carbonisation for valorisation of rice husk " Chapter-6, pp 105-122, Taylor & Francis 1sted., CRC press, in the international Book titled 'Biochemical and Environmental Bio processing: Challenges and Developments', July 2019.

**Organized (Academic year July 2017 onwards)**

1. Convener-WDC, Women's day, 8-10 Mar 2023
2. Coordinator, Staff health-camp in collaboration with Vijaya diagnostics, 27-28 October, 2022
3. Coordinator, Ayurveda week, 17-23 October, 2022
4. Vice-chairman, Shikshak Parv, an UGC initiative, 5-8 sep 2022.
5. Organized guest lectures for chemical engineering students during academic year 2022-23.
6. Convener-WDC, Women's day, on 8<sup>th</sup> Mar 2022
7. Convener-WDC, Anti-drug awareness to first year 3 Mar 2022.
8. Organized guest lectures for chemical engineering students during academic year 2021-22.
9. Chairman, online skill-development workshop for sem-IV students of chemical engineering on "Basics of MATLAB for Chemical Engineers", 17-01-2022 to 29-01-2022
10. Convener-WDC, online talk, National girl child day 23 Jan 2022
11. Vice-chair Ch Reethi to launch Women safety club, Chaitanya Suraksha, 9 Dec 2021.
12. Faculty coordinator, One-day workshop on 'Nurturing holistic lifestyle among professionals', by CBIT student club-Chaitanya Reethi, Hyderabad, 12-02-2020.
13. Department coordinator for CBIT Alumni Meet, 'Rejoicing Reunion' on 25-12-2019.
14. Vice-chairman, technical committee, one-day national seminar on 'Water and Environment', by environmental club-PARIVRITA, CBIT, Hyderabad, 22-03-2018.
15. Technical committee member, two-day national seminar on 'Safety management and energy conservation in process industries', by Institution of Engineers (I.E), Hyderabad, 06-10-2017 and 07-10-2017.
16. Faculty coordinator, two-day workshop on 'Piping Design' by chemical engg. dept. in coordination with M/s Tech-Trunk Ventures Pvt. Ltd., at CBIT, Hyderabad, 17-02-2017 and 18-02-2017.

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

**Participated (Academic year July 2017 onwards)**

- 1 One-Week Online ATAL – FDP on "Recent trends in Upstream Petroleum Technology", organized by Dibrugarh University, 07-03-2022 to 11-03-2022
- 2 One-Week Online FDP on "Recent trends on Smart Materials and their Applications", organized by Dept of Physics, Humanities and Sciences, Vardhaman College of Engineering, Hyderabad, 07-02-2022 to 11-02-2022
- 3 One-Week Online ATAL – FDP on "Recent trends in Food Processing and Preservation Technologies", organized by Dept of Technology, Shivaji University, Kolhapur, 01-02-2022 to 05-02-2022
- 4 One-Week Online ATAL – FDP on "Novel materials", organized

- by Dept of Mechanical Engg, University College of Engg, O.U, Hyderabad, Telangana, 22-11-2021 to 26-11-2021
- 5 One-day international webinar on Recycling and Solid Waste management, organized by IChE students Chapter, Dept of Chemical Engg., Andhra University on 16-09-2021
  - 6 Five-Day National Virtual Workshop on "National Education Policy-2020:A Road Map for Future of India", organized by Yogi Vemana University, Kadapa, Andhra Pradesh, 16-07-2021 to 20-07-2021
  - 7 One-Week AICTE-Online faculty training programme for Mentors organized by National Initiative for Technical Teachers Training, from 01-05-2021 to 05-02-2021.
  - 8 Six days Online AICTE-STTP on "Communication Skills & Ethics: A Modern Education Tool in 21<sup>st</sup> Century" organized by IQAC, Gandhinagar Institute of Technology, Gujarat, from 18-01-2021 to 23-01-2021.
  - 9 One-week online international FDP on 'Latest trends in engineering, science and technology: nanomaterials', from 10<sup>th</sup> Aug to 15<sup>th</sup> Aug 2020, organized by Lendi Institute of Engg. and Tech., Visakhapatnam, AP.
  - 10 One-week online refresher course on 'Bharateeya Chaitanyam', organised by Geervana Bharathi of Chaitanya Samskruthi, CBIT, Hyderabad, 29-06-2020 to 05-07-2020.
  - 11 One-week online Faculty Development Programme on 'Industry 4.0 - A Vision of Design and Manufacturing', organised by dept. of Mechanical Engg., CBIT, Hyderabad, 16-06-20 to 20-06-20.
  - 12 One-week online Faculty Development Programme on 'Outcome Based Education and NBA Accreditation-UG', organised by CBIT, Hyderabad, 28-05-2020 to 01-06-2020.
  - 13 One-week AICTE sponsored online Faculty Development Programme on 'Outcome Based Education: A Step towards excellence', by Govt College of Engg, Karad, under 'AICTE-Margdarshan Scheme', 11-05-2020 to 15-05-2020.
  - 14 One-week Faculty Development Programme on 'IoT for Emerging Applications', by ICT Academy-IIT Guwahati, at CBIT, Hyderabad, during 04-02-2020 to 08-02-2020.
  - 15 One-week Faculty development program on 'Behavioral Skills and Teaching Techniques', at Mahindra-Satyam learning world, Hyderabad, 21-06-2012 to 29-06-2012.
  - 16 Online Leadership talks organised by Dr. Abhay Jere, Chief Innovation Officer, MHRD's Innovation cell, AICTE.
  - 17 Online workshop on 'Effective and Efficient Online Teaching in the Age of Corona: A Hands-On Workshop' organised by Teaching Learning Centre (ICT) - IIT Bombay BodhiTree platform, 24-05-2020.
  - 18 Online Leadership talk by Dr. Pramod Chaudhary, Founder
  - 19 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 28-04-2020 to 22-05-2020.
  - 20 Two-day national workshop on 'Urban Environmental Management-Solutions for Sustainability' (UEM), by CSIR-NEERI, Hyderabad zonal centre, 18-08-2017 to 19-08-2017.
  - 21 Three-day national workshop on 'Clean Development Mechanism: Project Implementation for Industrial Sector, Energy Sector, Mining Sector and Carbon Trading', by EPTRI, Hyderabad, 27-11-2017 to 29-11-2017.

#### **National / International Journal from the year 2017**

1. Bhushan Goklani, P.V.Naga Prapurna, S Suraneni (2022), Simulation of pyrolytic conversion of Walnut shell waste to value added products, *Materials Today: Proceedings*, Volume 72, Part 1, 2023, pp 336-339.
2. Sai Nitheesh Magasani, Harish Reddy, Naga Prapurna P (2021), In-situ Design for Carbon Capture and Storage in Process Industries, *Journal of Engineering, Computing and Architecture*, Volume 11, Issue 8, pp 47-51.
3. Akanksh Mamidala, Anjani Mamidala, P.V. Naga Prapurna (2020), Evolution of Permafrost: An Impact on The Socio-Economic Conditions, *Proceedings of the International Conference on Advances in Chemical Engineering (AdChE) 2020.*, SSRN Electronic Journal, pp 13-26.
4. Aarti T, Sai Rohith B, Naga Prapurna, Raju K, S. Srinath (2020), Kinetic modeling of hydrothermal carbonisation of citrulluslanatus (watermelon) peel using thermo gravimetric analysis, *Chemical Product and Process Modeling (CPPM)*, De Gruyter, June, Volume 15, Issue 2, pp 1-8.
5. Anjani Mamidala, Akanksh Mamidala, Dr. P. V. Naga Prapurna (2019), Effects and adaptability due to climate change in developing countries, *International Journal of Innovations in Engineering and Technology, IJIET*, Volume 14, Issue 4, pp 01-10.
6. Anjani Mamidala, Akanksh Mamidala, P.V. Naga Prapurna (2019), Transparent Solar Cells as Economic and Effective Alternative in the Field of Excitonics, *International Journal of Recent Technology and Engineering*, Feb Volume 7, Issue 5S3, pp 115-119.
7. Anjani Mamidala, Akanksh Mamidala, P.V. Naga Prapurna (2018), Smart road - a sustainable technology for present and future, *International Journal of Management, Technology and Engineering*, Oct Volume 08, Issue 10, pp 1818-1828.
8. P. V. Naga Prapurna, M. Viswanatham (2017), Batch and column studies for removal of Cu and Zn using industrial solid waste as new adsorbent, *IARJSET*, Volume 04, Issue 11, pp 227-238.

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

1. Bhushan Goklani, Dr. P.V. Naga Prapurna, Dr. Srinath Suraneni, Simulation of pyrolytic conversion of walnut shell waste to value added products, *Novel Materials and Technologies for Energy Applications*, BITS Pilani - Hyderabad Campus, 18th-19th February 2022.
2. Dhanush C, Rupesh G, Naga Prapurna, Smog Towers as A Solution for Air Pollution, at National Conference on Emerging and Adaptable Technologies in Process Industries, organised by University College of Technology, Osmania University, 14th and 15th December, 2021.
3. Pallavi Pothala, Vijaya Raju K, Naga Prapurna, Membrane Distillation as a promising thermal separation technique for industrial wastewater treatment, *International Conference on Green Chemistry and Engineering towards Sustainable Development-An Industrial Perspective*, Department of Chemical Engineering, Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat, Gujarat, India, 16<sup>th</sup> - 18<sup>th</sup> June 2021.
4. Sai Nitheesh Magasani, Harish Reddy M, Naga Prapurna, An In-situ Design for Carbon Capture and Storage in Process Industries, *International Conference on Green Chemistry and Engineering towards Sustainable Development – An Industrial Perspective*, Department of Chemical Engineering, Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat, Gujarat, India, 16<sup>th</sup> - 18<sup>th</sup> June 2021.
5. Poojitha Kandati, Neha Mankala, Naga Prapurna, Treatment of Textile Dye Effluent Using Seed Hulls, Dry Leaves and Fruit Peels – A Review, *International Conference on Green Chemistry and Engineering towards Sustainable Development – An Industrial Perspective*, Department of Chemical Engineering, Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat, Gujarat, India, 16 - 18 June 2021.
6. Kalakuntala Raju, A. Vineeth, Naga Prapurna, V.V.Basava Rao, Srinath Suraneni (2020), Kinetics of Catalytic Esterification of Propionic Acid with N-Butanol over Mesoporous Catalyst, 2-day International Conference on Recent advances in chemical engineering, (RACE), organised by Dept. of Chemical Engg., University College of Technology (A), Osmania University, Hyderabad in association with IChE-HRC, on the Eve of Golden Jubilee Celebrations, January 8-9, 2020.
7. Mamidala Anjani, Mamidala Akanksh, Thatipalli Aashrith, Pentapati Naga Prapurna (2019), Geothermal energy- an imperishable source of energy in all aspects of life, 12th European congress of Chemical Engineering, ECCE12, P/424, organised by AIDIC, Florence, Italy, 15-19 September.
8. D. Sushmitha, Anjani M, Akanksh M, P.V. Naga Prapurna, Srinath S (2019), Formulation of benzotriazole loaded electrospun cellulose halloysite nano fibers and its controlled release rate studies for corrosion inhibition of mild steel, international conference on recent advances in nanoscience and nanotechnology (NANOTECH), organised by Larix International, Singapore, 20-21 June.
9. Anjani M, Akanksh M, Divyasai, Naga Prapurna (2019), Transparent solar cells as economic and effective alternative in the field of excitonics, international conference on recent engineering and technology (ICRET-2019), organised at New Horizon College of Engg., Bangalore, India, on 5 May.
10. Anjani M, Akanksh M, Ashrith S T, Srinath S, P. V. Naga Prapurna (2019), Vulnerability and adaptation to climate changes in developing countries of Africa and Asia, International conference on Engineering

and Advancement in Technology (ICEAT), organised by Lord's Institute of Engg and Technology, Hyderabad 9-10 April. ISBN 978-93-81288-18-4

11. Aarti T, Rohith, Naga Prapurna, Srinath S (2019), Kinetic studies Citrullus lanatus (watermelon) peel using thermo gravimetric analysis, 2nd International conference on New Frontiers in Chemical, energy and Environmental Engineering (INCEEE), organised by Department of chemical engineering, NIT Warangal, Telangana, 15-16 February.
12. Rohith, Aarti T, P. V. Naga Prapurna, Kumar S, Srinath S (2018), Hydrothermal Carbonization of Citrulluslanatus fruit peel, international conference on "Advances and challenges for sustainable ecosystem", ICACSE, organised on Department of chemical engineering, NIT Tiruchirapalli, Tamilnadu, 6-8 Dec.
13. Anjani Mamidala, Akanksh Mamidala, P. V. Naga Prapurna (2018), Smart road - a sustainable technology for present and future, XV International conference on Recent trends in engineering Science and management, organised by O. U.Centre for International program, O.U Campus, Hyderabad, 20 October.

