

Dr. Katarapu Venkateswarlu

Assistant Professor (C)

Department of Mechanical Engineering

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Education

- Ph.D. (Materials Engineering), Year of pass: 2025, University/Institute: University of Hyderabad, Hyderabad
- M.E (Mech-Production Engineering), Year of pass: 2007, University/Institute: University College of Engineering, Osmania University, Hyderabad
- B.E (Mech-Production Engineering), Year of pass: 1995, University/Institute: Chaitanya Bharathi Institute of Technology (CBIT), Hyderabad.

PhD thesis title: Novel Solution Synthesis Methods to Prepare Powders of Transition Metal Oxides and Transition Metal Oxide/Few-layered Graphene Nanocomposites at 90 °C.

Supervisor: Prof. Dr. -Ing. V.V.S.S. Srikanth, University of Hyderabad

Work experience:

- 18 Years of Teaching as Assistant Professor (C) in the Department of Mechanical Engineering, University College of Engineering, Osmania University, Hyderabad.
 - Practical and theory courses in Production Engineering

Area of research:

- Materials Engineering and production engineering; Materials for energy production and storage

Publications:

- V. Katarapu, H. Pant, S. V. Kummari, R. Kurapati, K. Guruvadyathri, V. V. S. S. Srikanth, “Crystallization of ZnO in aqueous precursor solution at 90 °C”, *Chemistry Select* (8), (2023) e202300221.
- K Venkateswarlu, SS Rohit, LR Kumar, BR Kumar, “Experimental Investigation on Material Removal Rate, Surface Roughness of Stainless Steel 306 by EDM”, *International Journal for Research in Applied Science & Engineering Technology* (8), (2020) 12, 695 – 701.
- Venkateswarlu Katarapu; Ranjith Reddy Patthi; Dharani K Chennamsetty; Venkata Sreenivasulu Kummari; Harita Pant; Sara Geo, “Novel design-driven solution synthesis of ZnO/few-layered graphene nanocomposites”, submitted to *Materials Today Nano* journal (Manuscript Number: **MTNANO-D-25-00953**)
- V. Katarapu, S. V. Kummari, D. K. Chennamsetty, R. R. Patthi, M. A. A. Mohamed, K. Guruvadyathri, V. V. S. S. Srikanth, “Alkaline hydrolysis at 90 °C: A simple method for crystallizing ZnO, CuO, Mn₃O₄, and Co₃O₄”. (Manuscript to be submitted)

Conferences attended:

- V. Katarapu, et.al., "Development of Graphene Metal Oxide Composites for Highly Efficient Photo Catalytic Degradation of Synthetic Dyes", International Conference on Composite Materials and Structures (ICCMS-2017), during 27-29 December, 2017, Hyderabad. (Oral Presentation)
- V. Katarapu, et.al., "Synthesis, Characterization and Testing of Novel OPC Composites with Nanocarbon Fillers", International Conference on Structural Engineering (IC-ISE-2015), during 14-16 December 2015, Hyderabad. (Oral Presentation)

Other Activities:

- Attended "**Short Course on Applied Rheology**" on 5th February, 2019 organized by Aanton Paar, Germany GmbH at CFRD, Osmania University.
- Attended workshop on "**Essentials of Entrepreneurship**" on 20th and 21st December, 2018 jointly organized by TIE-U & BIONEST, University of Hyderabad.
- Attended workshop on "**Frontiers in Nanoscience and Technology**" on 06th and 07th April, 2018 organized by Centre for Nanotechnology, University of Hyderabad.
- Attended a "**One day Induction Program on Teaching Learning Methodologies**" on 20th January, 2018 organized by TEQUIP-II, UCE(A), Osmania University.
- Attended workshop on "**Teaching, Learning and Assessment Methodologies**" on 13th & 14th December, 2016 organised by Department of Mechanical Engineering, UCE(A), Osmania University.
- Attended workshop on "**Advanced Welding Techniques**" on 21st and 22nd October, 2016 organised by Department of Mechanical Engineering, UCE(A), OU.
- Attended workshop on "**Finite Element Methods**" on 30th July, 2016 organised by Department of Civil Engineering, UCE(A), Osmania University.
- Attended workshop on "**How to write Research Proposal**" on 18th September, 2015 organized by TEQUIP-UCE(A), Osmania University.
- Attended workshop on "**Industry Institute and Defence Labs Interaction**" on 30th August, 2014 organised by Department of Mechanical Engineering, UCE(A), OU, in Collaboration with Programme AD, RICI, DRDO, Hyderabad.
- Organised a seminar on "**Advances in Materials and Manufacturing**" during 8-10 December, 2016 jointly by the Department of Mechanical Engineering, UCE, Osmania University and DRDL Hyderabad.

Scientific Community IDs:

Google Scholar: <https://scholar.google.com/citations?user=Uek0kPoAAAAJ&hl=en>

ORCID: <https://orcid.org/0009-0005-2624-9204>

Vidwan: <https://vidwan.inflibnet.ac.in/profile/589703>

Web of Science researcher ID: LXA-5370-2024

Scopus ID: 58176003400

(K. Venkateswarlu)