



DR. B SURESHA

DESIGNATION

Professor and Dean (R & D)

CONTACT



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Mysuru, Karnataka

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Professional Experiences:

Teaching: 35 Years

Industry: Nil

Research: 25 Years

Courses Taught:

Design of Machine Elements I
Design of Machine Elements II
Design and Drawing
Kinematics of Machinery
Dynamics of Machinery
Mechanical Vibrations
Automatic Control Engineering
Mechanical Engineering Science
Engineering Drawing I
Engineering Drawing II
Machine Drawing
Fluid Mechanics
Composite Materials
Tribology & Bearing Design

ABOUT ME

My academic journey started with a Diploma in Mechanical Engineering (DME) in 1983, followed by B.E in Mechanical Engineering from Mysore University in 1987 and M. Tech (Machine Dynamics) from IITM, Chennai in 1995. Ph. D was awarded in 2007 for the research work carried out on “Tribology of polymer composites” from Anna University, Chennai. I have served at NIE for more than 35 years in various capacities as Lecturer, Senior Lecturer, Selection Grade Lecturer, Professor, Head, Department of Mechanical Engineering, Head of Centre for Composite Materials Research (CCMR), PG Coordinator for Machine Design, Dean (R&D), Chairman and member of Board of Studies, Member of Academic Council Committee, and Member of Academic and Examination Review Committees.

My research work is focused on Materials Science, Polymer Matrix Composites, and Tribology of Polymer Composites. Also, some of my research works are in the field of MAXphase materials, Metal Matrix Composites, Bio-composites, and Nanocomposites. My research work has resulted in more than 274 peer-reviewed Journal Publications and 21 Book Chapters. My research knowledge has been shared with young researchers in more than 225 International Conferences. My guidance towards research scholars has produced 10 Ph. D’s in the field of Polymer Matrix Composites Tribology and 6 Ph. D’s are in progress. Also, my research work has contributed to the Institution with 5 sponsored projects and 1 Patent awarded. My aim to exchange knowledge with the researchers has resulted in organizing 3 International Symposiums and several National and International Conferences/Workshops.

I am a member of the editorial boards of the VTU research journal, the Indian Journal of Engineering and Materials Sciences (IJEMS, a CSIR publication), Trends in Mechanical Engineering & Technology (STM Journals), and Academic Editor for Journal of Engineering (Hindawi) and International Journal of Physical Sciences (Academic Journals).

My research work has been appreciated by various organizations in the form of awards, namely “Marquis who’s who” in the 10th Anniversary Edition in Science and Engineering division (2010-2014), “Best Research Publication Award” from Vision Group of Science & Technology (VGST), Govt. of Karnataka in 2015, “Outstanding Reviewer Award” by Elsevier in 2015-2020, “Recognized Reviewer Award” by Elsevier, Transactions of Indian Institute of Metals (TIIM), and Journal of Serbian Tribology Society. “Top one percent Peer Reviewer Award-2018” for placing in the top 1% of reviewer in Materials Science, “Top one percent Peer Reviewer Award- 2019” for placing in the top 1% of reviewers in Cross-Field on Publons global reviewer database, and “Top one percent Peer Reviewer Award-2019” for placing in the top 1% of reviewer in Materials Science. In a historic milestone, I have been named in Stanford University’s “Top 2% Most Influential Scientists list for the years 2021, 2022, and 2023”.

RESEARCH INTERESTS:

Materials science, Microstructure-property relationships in Development of Polymer Composite Materials, Light weight Polymer Composites, Natural fibers and their Composites, Fracture and Fracture toughness, Friction and Wear, Abrasion, Erosion, Microscopic Characterization, Manufacturing Techniques for High Performance Composites with Thermoplastics, Design with Composites, Nanocomposites.

EDUCATION

Ph.D – Specialization: Polymer Composites Tribology

Research Centre/University Name: PSG College of Technology, Affiliated to Anna University

Year of Graduation: 2007

M.E/MTech. – Specialization: M Tech in Mechanical Engineering (Machine dynamics)

Institute/University Name: Indian Institute of Technology Madras, Chennai

Year of Graduation: 1995

B.E., - Specialization: Mechanical Engineering

Institute/University Name: The National Institute of Engineering affiliated to Mysore University

Year of Graduation: 1987

PUBLICATIONS

National journals: 23

International journals: 274

Book Chapters in Reputed publishers: 21

FDP/STTP/ Workshops/Conferences/Seminars attended

FDPs- 22, STTPs-06, Worksops-10, Confernces-225, Seminars-20

Other Information:

(Patents awarded/ Membership/Administration/Consultancy/Evaluator/Research Guidance and funding/Awards/Key Roles/Invited Talks Delivered, etc.)

Patents awarded: 01

Membership:

- ✓ Indian Society of Technical Education
- ✓ Tribology Society of India
- ✓ Editorial member for “Indian Journal of Engineering & Materials Sciences”
- ✓ Editorial member for “Advances in Tribology”
- ✓ Academic Editor for “International Journal of Physical Sciences”
- ✓ Academic Editor for “Journal of Engineering”

Thesis Evaluator:

- ✓ National Institute of Technology, Tiruchirappalli
- ✓ Anna University, Chennai
- ✓ Visvesvaraya Technological University, Belagavi
- ✓ Kalasalingam University, Tamil Nadu
- ✓ Karunya University, Coimbatore
- ✓ Jain University, Bangalore
- ✓ VIT University, Vellore
- ✓ Thiruvalluvar University
- ✓ Karpagam University
- ✓ Bangalore University, Bangalore
- ✓ Research Guidance: 16
- ✓ Funding: 05

Awards:

- ✓ “Award for Research Publications” from Vision Group of Science and Technology, Govt. of Karnataka, India 2015
- ✓ Best paper awarded in International Symposium on Steel for Automotives, International Symposium-NMD-ATM 2006, during November13-16, 2006 Jamshedpur.
- ✓ Name included in Marquis who’s who in the 10th Anniversary edition in Science and Engineering Division.
- ✓ Top one percent Peer Reviewer Award-2018 for placing in the top 1% of reviewer in Materials Science
- ✓ Top one percent Peer Reviewer Award- 2019 for placing in the top 1% of reviewers in Cross-Field on Publons global reviewer database,
- ✓ Top one percent Peer Reviewer Award-2019 for placing in the top 1% of reviewer in Materials Science.
- ✓ Featured in the list of world’s top 2% researchers published by Stanford university (2021).
- ✓ Featured in the list of world’s top 2% researchers published by Stanford university (2022).
- ✓ Featured in the list of world’s top 2% researchers published by Stanford university (2023).
- ✓ SHIKSHARATNA award 2023

Key Role as Reviewer:

- Wear
- Materials and Design
- Journal of Materials Processing and Technology
- Materials Science and Engineering A
- Journal of Reinforced Plastics and Composites
- Journal of Composite Materials
- Tribology International
- Tribology Transactions (Taylor and Francis)
- Advances in Tribology (ASME)
- Journal of Tribology Research
- Journal of Polymer Research
- International Journal of Materials Research
- International Journal of Physical Sciences
- International Journal of Engineering Science and Technology
- Journal of Applied Polymer Science
- Polymer Composites
- Express Polymers
- Journal of Materials (Hindwai Publications)
- Applied Composite Materials
- Journal of Applied Chemical Science International
- Advances in Tribology (Hindwai)
- Journal of Thermoplastic Composite Materials
- Journal of Engineering (Hindwai Pub)
- Transactions of the Indian Institute of Metals

Invited Talks Delivered: 55 (Research works have been presented at National and International Conferences and Seminars in India, Singapore, Shanghai, China, San Diego, California, USA. Dubai).