

Dr. Suwarna Torgal

Professor, Mechanical Engineering Department

Institute of Engineering & Technology (IET)

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Academic Qualifications

- **Ph.D. (Mechanical Engineering)**, Devi Ahilya University, Indore, 2010
Research Topic: Identification and Enumeration of Kinematic Chains Using Identification Codes
- **M.E. (Mechanical Engineering)**, Karnataka University, Dharwad, 1999
- **B.E. (Industrial & Production Engineering)**, Karnataka University, Dharwad, 1995

Areas of Expertise

Material Science • Strength of Materials • Advanced Machine Design • Machine Design I & II • Theory of Machines • Machine Vibration Analysis

Professional Experience

- **Professor**, Mechanical Engineering, IET DAVV, Indore (2003–Present)
- **Lecturer**, SGSITS, Indore (2001–2003)
- **Design Engineer**, KK Nag Ltd., Pune (1995–1997)

Experience Summary: Teaching – 25 Years | Research – 25 Years | Industry – 2 Years

Research & Academic Contributions

Journal Publications: 55

Conference Publications: 15

Sessions Chaired: 08

Ph.D. Scholars: Completed – 01 | Guided/Ongoing – 04

M.Tech Projects Guided: 22

Patents: 02

B-Tech Projects Guided :30

Reviewer: Elsevier Journals; Pearson Education

Book Chapter Reviewer: *Material Science & Metallurgy* (Pearson)

Funded Research Projects & Grants

- **ANRF–PAIR Network Project (₹100 Crore Grant to Hub – IIT Indore)**
 - Project Title: **SAKSHAM**
 - Theme: Advanced Materials
 - Role: **Principal Investigator (Spoke – DAVV)**
 - Co-PI (Hub): Dr. I. A. Palani, IIT Indore
- **DST–NIMAT (2019–20):** Entrepreneurship Awareness Camp
- **UGC 12th Plan:** Seed Money Project – *Pipe Inspection Robot*

Awards & Recognitions

- Engineer with Most Realistic Vision Award – **RFI (2019)**
- Certificate of Appreciation for Research & Academic Contributions – **DAVV (2019 & 2020)**
- **Best Paper Award**, SCESM-2017 International Conference
- **National Merit Scholar**, Government of India
- **Chartered Engineer**, Institution of Engineers (India)
- Superintendent – Institution of Engineers (India) Examinations
- Several BE Final Year Projects guided received institutional awards

Administrative & Institutional Responsibilities

- **Nodal Officer**, IET DAVV (including Girl Students Affairs)
- **IQAC Coordinator**, Criterion–1 (SSR Preparation)
- **Faculty Advisor & Mentor**, IEI Student Chapter (Mechanical Engineering)
- **NSS Coordinator**, Girls Wing
- **Joint Secretary**, DAVV University Alumni Association (DUAA)
- **Member:** Board of Studies; Women Task Force; Anand Cell; Disciplinary Committee (Girls Hostel – A Block); Anti-Ragging Committee; Hostel Visit Committee; Purchase & Stock Verification Committees; Ph.D. Examination Committee; BE & ME Admission Counselling Committees
- **Laboratory In-Charge:** Material Science Lab; Theory of Machines Lab

Conference, Event & Program Leadership

- **National Co-Chair**, IC4M Conference Series (2022–2025) – *International Conference on Materials, Manufacturing & Mechanics*
 - **Organizer / Convener / Committee Member:** Science Week (MPCST); Innovation & Entrepreneurship Challenge; Industry–Academia Interface (IEI); Youth Festival (DAVV); SEAUFEST; World Habitat Day (IEI); National Symposium on Health & Happiness; Energy Conservation & Renewable Energy Seminar; Gudi Padwa Celebration; Sfurti
 - **Coordinator:** Meditation Camps (Heartfulness & Anand Cell, DAVV); Smart Girl Program (Master Trainer – 500+ beneficiaries)
 - **Mentor** :Rudra Dance Club, Engineers Without Borders (EWB) club.
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Short-Term Courses, Workshops & Industrial Programs

- Manufacturing Excellence Program (MEP) – **Eicher Motors Ltd., Pithampur** (3 months)
 - All India Seminar on Design & Analysis of Mechanical Systems using Optimization Techniques – IET DAVV
 - Establishment & academic activities of IEI Student Chapter (Mechanical Engineering)
 - Seminars on CAD/CAM/CAE, Sustainable Energy Systems & Entrepreneurship (DST Sponsored)
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Professional Memberships

- **Life Member:** IEI, ISTE, AMM
 - **Corporate Member:** Institution of Engineers (India), **Indore Local Centre**
 - **Fellow Member:** IEI, Institution of Engineers (India),Kolkatta.
 - **Chartered Engineer:** Institution of Engineers (India)
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Other Professional Contributions

- External Examiner & Paper Setter – Various Universities & Institutions
- Judge – Regional Level Science Exhibition
- Trustee – Karnataka Vidya Niketan, Indore
- Active involvement in outreach, mentoring, and institutional development initiatives