Dr.NIKHIL K V

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Professional Summary

Dedicated academician and researcher with over 12 years of experience as an Assistant Professor in Mechanical Engineering. Recently completed a Ph.D. in Mechanical Engineering, bringing a strong foundation in manufacturing processes, thermal sciences, and advanced composite materials. Proven track record in academia, characterized by multiple SCOPUS-indexed publications in sustainable polymer matrix composites. Fully qualified through GATE and TANCET, with an extensive background in both practical laboratory instruction and theoretical engineering education.

Education

- **Ph.D. in Mechanical Engineering** | VELS University Chennai | 2026
- **M.E. in Production Engineering** | Anna University Chennai | 2013 | CGPA: 8.38
- **B.Tech in Mechanical Engineering** | Calicut University | 2010 | 65.73%
- **Key Qualifications:** GATE and TANCET Qualified.

Professional Experience

Assistant Professor, Mechanical Engineering | AWH Engineering College, Kozhikode
February 2014 – Present

- Instruct undergraduate courses including Composite Materials, Heat & Mass Transfer, Manufacturing Processes, Metallurgy & Material Science, and Operations Management.
- Lead laboratory sessions for Machine Tools and Fluid Mechanics.
- Guide final-year engineering students through Project Phases I & II and comprehensive seminars.
- Achieved consistent 80-100% pass rates across core mechanical engineering subjects.
- **Additional Responsibilities:**

    Discipline Committee Coordinator.

    PTA staff secretary.

    Result improvement committee.

    Event Management Committee.

    Music club coordinator.

    Department placement coordinator.

    CRPD member.

Research & Publications

Core Research Areas: Sustainable polymer matrix composites, Metal Matrix composites.

Selected Publications:

- *Investigation of Mechanical Behaviour of Specially Treated PLA-Based Natural Hybrid Fibre Composite*, Springer, Singapore (SCOPUS).
- *Sisal fiber reinforce PLA Nanocomposites with improved Mechanical Thermal and Morphological Properties*, Nanotechnology Perceptions.
- *Experimental investigation on vibration characteristics and damping factor of coir fiber reinforced polyester composite material*, SPRINGER NATURE - Discover Applied Sciences (SCOPUS).
- *Investigation on Dynamic Analysis of Polylactic Acid Based Natural Hybrid Fiber Composite Using Nanotechnology*, NanoWorld Journal .

Professional Development & Certifications

- **MOOC / Certifications:** Data Science for Engineers (NPTEL Online Certification - IIT Madras, 2025).
  - Six Sigma Foundations (2019-20).
  - Supply Chain Basics for Everyone & Leading in Crisis (2020-21).
- **Faculty Development Programs (FDPs):**
  - Hydrogen 360 Degree: Unlocking the Potential of Sustainable Power.(ATAL FDP)
  - AI in Action. (ATAL FDP)
  - Smart Materials and Digital Advancements for Future Manufacturing Systems.
  - Design Thinking and Creativity for Educators.
  - 3D Printing and Design.
  - I-STEM I-RISE/OTP TGA,Rheometer,XRD,UTM,FTIR. (NIT CALICUT)
- **Conferences/Workshops:**
  - 2nd International Workshop on Sustainable Materials & Products (SMP'25).
  - 3rd International Symposium on Sustainable Fibers and Polymeric Materials (SFPM'24).
  - National Conference on Recent Trends in Mechanical Engineering.

Personal Details

- **Date of Birth:** 06/01/1989
- **Nationality:** Indian
- **Marital Status:** Married