


Faculty Profile

Name	: Dr. Anand A	
Designation	: Assistant Professor- Grade-II	
Department	: Mechanical Engineering	
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About me:

Dr. Anand A is an Assistant Professor in the Department of Mechanical Engineering at The National Institute of Engineering (NIE), Mysuru, with over 14 years of teaching, research, and academic administration experience. I have previously served as an Assistant Professor at Vidyavardhaka College of Engineering, Mysuru. My research expertise includes Additive Manufacturing, Polymer and Composite Materials, Finite Element Analysis, Fracture Mechanics, and Alternative Fuels for IC Engines. I have authored several international journal and conference publications in areas such as tribological behaviour of composite materials, biodiesel performance, and advanced manufacturing processes. I'm a life member of professional bodies including IEI, ISTE, and ISHRAE, and has actively contributed to institutional development through roles in NAAC/NBA activities, student training programs, and academic associations.

Qualification:

B.E., M.Tech, Ph.D. (VTU, Belagavi)

Courses Taught:

UG Courses :Computer Integrated Manufacturing (CIM), Additive Manufacturing, CAD/CAM, Mechatronics, Manufacturing Processes (MP-I & MP-II), Fluid Power Systems (Hydraulics and Pneumatics), Finite Element Methods (FEM) , CAED (Computer Aided Engineering Design), CAMD (Computer Aided Machine Design)

Publications:

Journal Publications:

- **A. Anand**, S. J. S. Chelladurai, K. Jagadeeswaran, B. Harshavardhan, and B. Suresha, "Optimization of wire electrical discharge machining process parameters of LM24 Al alloy–TiB₂–fly ash reinforced hybrid composites," *Discover Materials*, vol. 5, no. 1, 2025.
- **A. Anand**, H. V. Divya, T. P. Jeevan, and T. G. Yashas Gowda, "Synergistic effects of wood filler–glass/carbon fibers on the tribological behavior of polypropylene hybrid composites," *Journal of Bio and Tribo Corrosion*, vol. 11, no. 2, 2025.
- **A. Anand**, D. Shrinivasa, G. V. N. Prakash, R. Syed Hafeez, and S. Sufiyan, "Comprehensive review of machining parameters for aluminum 7000 series alloys and their aerospace applications," *Advances in Mechanical Engineering and Material Sciences*, 2025.

- **A. Anand**, J. Dharanish, D. C. Madaiah, F. S. Arockiasamy, and A. Fatehmulla, “Surface functionalization of boron nitride and its effect on physicomechanical properties of polyaryletherketone composites,” *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*, 2025.
- **A. Anand**, A. C. Dixit, K. N. Prakasha, B. Harshavardhan, and A. Taranum, “Barriers to integrating AI in curriculum for enhanced engineering education: A fuzzy ISM approach,” *Journal of Engineering Education Transformations*, vol. 38, Special Issue, 2025.
- **A. Anand**, A. C. Dixit, K. N. Prakasha, and B. Harshavardhan, “Hackathon-based learning approaches for mechanical engineering,” *Journal of Engineering Education Transformations*, vol. 38, Special Issue, 2025.
- **Anand Ankaiah**, P. K. Samal, I. Jamadar, B. Suresha, and A. S. Lathika, “Evaluation of damping characteristics of 3D printed CF-reinforced PLA/ABS composite sandwich panels,” *Romanian Journal of Acoustics and Vibration*, vol. 21, no. 2, 2024.
- **A. Anand**, J. Dharanish, Bheemraj, D. C. Madaiah, and H. Hema, “Synergetic effects of one and two dimension nanofillers on the mechanical properties of rubber modified epoxy composites,” *SSRG International Journal of Mechanical Engineering*, vol. 11, no. 8, 2024.
- **A. Anand**, D. Bennur, and T. P. Jeevan, “Stress analysis of 2D cylindrical pressure vessel with torispherical end closure,” *SAE Technical Papers*, 2014.

Conference Proceedings:

- **A. Anand**, B. S. Nithyananda, G. V. N. Naveen Prakash, N. Ankegowda, and K. B. Vinay, “Optimization of performance and emission responses of common rail direct injection engine by Taguchi–Grey relational analysis technique,” *Engineering Proceedings*, vol. 59, no. 1, 2023.
- **A. Anand**, Krishna, B. Suresha, D. U. Mv, and S. Suresha, “Erosion wear behaviour of particulate filled aramid fiber reinforced POM based composites,” *AIP Conference Proceedings*, vol. 2747, 2023.
- **A. Anand**, B. Suresha, V. V. Giraddi, and H. M. Somashekar, “Dynamic mechanical analysis of 3D printed carbon fiber reinforced polylactic acid composites,” *Materials Today: Proceedings*, vol. 59, 2022.

Book Chapters:

- **A. Anand**, S. L. Aravind, H. P. Bharath, I. M. Jamadar, and P. K. Samal, “Experimental investigations on the effect of carbon nanotubes and nanoclay additives on thermo-kinetics and mechanical characteristics of acrylonitrile butadiene styrene,” *Springer Proceedings in Materials*, vol. 32, 2022.

Other achievements:

PhD Enrolments : 04
 Professional Membership : ISTE, IEI, ISHRAE