

## Faculty Profile

Name	: Dr Suresh Kumar S
Designation	: Assistant Professor
Department	: Mechanical
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**About me:** I am a passionate and experienced teacher with 18 years of teaching experience in Mechanical Engineering. I completed my Ph.D. in Mechanical Engineering Sciences from Visvesvaraya Technological University (VTU), Belagavi. My doctoral research, titled “*Study of the Effect of Shot Peening on Fatigue and Fracture Characteristics of Aluminium-Based Metal Matrix Composites,*” focused on surface treatment processes, compressive residual stresses, and metal matrix composites, which remain my primary research interests.

I worked as an Associate Professor in the Department of Mechanical Engineering at ATME College of Engineering, Mysore, for 10 years. Prior to that, I served as an Assistant Professor at Maharaja Institute of Technology, Mysore, for 3.5 years, and as a Lecturer at M.S. Engineering College, Bangalore, for 1.5 years. Earlier, I worked as a Junior Training Officer at Government ITI, Mysore, for 2 years and 7 months.

I have organized Faculty Development Programs and state-level intercollegiate student project exhibitions, and contributed to international conferences and NAAC/NBA accreditation. I was involved in various events, including international conferences, NAAC accreditation, and NBA accreditation work.

### **Qualification:**

**Diploma in Mechanical (CPC Polytechnic, Karnataka)**

**B.E. (VTU, Belagavi)**

**M.E (UVCE, Bangalore)**

**Ph.D. (VTU, Belagavi)**

**P .G Diploma in Yoga**

### **Courses Taught:**

- Mechanics of Materials
- Kinematics of Machines
- Dynamics of Machines
- Finite Element analysis
- Design of machine elements I & II,
- Mechanical Vibrations

- Experimental stress analysis
- Automotive engineering
- Introduction to Mechanical Engineering
- Computer Aided Engineering Drawing

**Journal Publication:**

1. Suresh Kumar S "Development and Characterization of Al6061-Rice Husk Ash and Al6061-Fly Ash Composites for Tribological Brake Disc Applications" (DOI: 10.24874/ti.2019.09.25.12) is now available in the "Articles in Press" section at the following link: <http://www.tribology.rs/inpress.html>.
2. Goud Mallesh, S. Suresh Kumar, and H. S. Manjunatha. "Optimizing Bio ceramic Composites for Hip Joint Replacements using SPS Method: Investigating the Effects of Titanium Diboride (TiB<sub>2</sub>) on Tribological Properties." *Tribology in Industry* 47, no. 1 (2025).
3. Suresh Kumar. S, G. Mallesh (2022): Influence of controlled shot peening on Mechanical properties and Compressive residual stress of Al6061-TiB<sub>2</sub> Composite" published in Journal of The Institution of Engineers (India): Springer.
4. Suresh Kumar. S, Rathan Kumar K (2022): Enhancing Surface Layer Properties of Al6061-B<sub>4</sub>C Composite by Controlled Shot Peening" published in IJSRSET ISSN: 2395-1990.
5. Suresh Kumar. S, Dr. G. Mallesh (2020): Design and Development of Air Blast Shot Peening Machine to Study the Effect of Shot Peening Process on Microstructure and Residual Stress in Al-2024 Aluminum Alloy, IRJET, ISSN: 2395-0056.
6. G. Mallesh, Suresh kumar.S (2017): Effect of shot peening on mechanical and wear properties of AISI1018 and AISI 304 steel by using wheel blast shot peening machine" in IJESMR, ISSN 2349-6193.
7. Suresh Kumar.S (2017): Computer Numerically controlled Multi operational Machine" in IJRAME, ISSN 2321-3051
8. Rakshith N, Manjunatha H S, Suresh Kumar S(2015): FE-Investigation of Semi-Circular Curved Beam Subjected to Out-Of-Plane Load" in International Journal of Research in Engineering and Technology.

**Other Information:**

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

**Nil**