

Name:	Dr. K. GOBIVEL
Present Position:	Assistant Professor Selection Grade Scale (SG)
Address:	Department of Mechatronics Engineering KCG College of Technology Karapakkam, Chennai 600 097
Contact Info:	9445383080 / 8778239006 gobivel@gmail.com

I. EDUCATION

Doctoral Degree (Ph.D.):	Department of Mechanical Engineering, SSN College of Engineering, Anna University, Jan 2025
Master's degree (M.E.):	Manufacturing Engineering, Department of Mechanical Engineering, SSN College of Engineering, Anna University, May 2014
Bachelor's degree (B.E.):	Department of Mechanical Engineering, Jaya Engineering College, Anna University, May 2011

II. PROFESSIONAL EXPERIENCE

Sl. No.	Position	Institute Name	Period
1.	Assistant Professor – Selection Grade	Department of Mechatronics Engineering, KCG College of Technology	Jul 2025 – Till Now
2.	Assistant Professor – Senior Scale	Department of Mechanical Engineering, KCG College of Technology	Jul 2022 – Jun 2024
3.	Assistant Professor	Department of Mechanical Engineering, KCG College of Technology	Jun 2015 – Jun 2022
4.	Project Engineer	TVS Srichakra Ltd (TVS Tyres)	Jul 2014 – Dec 2014
5.	Production Engineering	Universal Radiators Ltd	Jul 2011 – Jun 2012

III. SCIENTIFIC PAPER PUBLICATIONS

***Corresponding Author**

SCI Indexed				
Paper Title	Authors	Journal	Quartile	Impact Factor
Effect of machining parameters on cutting forces, chip microstructure and tool wear in Mg-ZrO ₂ reinforced MMCs	Vijaysekar KS, Gobivel K* , Sricharan S, Subramanian BS, Vivek Sridhar	Physica Scripta, IOP Science, 2025	Q2, SCIE	2.6
Machinability of Mg-Al ₂ O ₃ Nanocomposites: Effects of Volume Percentage and Cutting Inserts	Vijaysekar KS, K Gobivel* , J Shrinath, S Rohit Kumar, P Shreenivasan	Journal of Materials Engineering and Performance, Springer, 2025	Q2, SCIE	2.0
Assessment of Johnson-Cook material constitutive parameters in finite element simulation of machining Al–SiC metal matrix composite	K Gobivel* , KS Vijaysekar	Journal of the Brazilian Society of Mechanical Sciences and Engineering, Springer, 2023	Q2, SCIE	2.1
Machinability Studies on the Turning of Magnesium Metal Matrix Composites	K Gobivel* , KS Vijay Sekar	Archives of Metallurgy and Materials, Degruyter, 2022	Q3, SCIE	0.70
Impact of cutting forces and chip microstructure in high-speed machining of carbon fiber-epoxy composite tube	Y Allwin Roy*, K Gobivel , KS Vijay Sekar, S Suresh Kumar	Archives of Metallurgy and Materials, Degruyter, 2022	Q3, SCIE	0.70

Scopus Indexed
Gobivel K. , Vijaysekar, K. S.* (2026) An experimental investigation of process parameters in end milling of SS316 alloy. <i>AIP Conference Proceedings</i> .
Vijaysekar, K. S., Gobivel, K* , Selvan, C. P., Ashwinkumaran, S., Adithya, D. B., Chandrapraban, U., & Ragavendar, B. H. (2024). Effects of process parameters on drilling of Magnesium-reinforced with B ₄ C composite. <i>Materials Today: Proceedings</i> .

Vijaysekar, K. S., Gobivel, K* , Selvan, C. P., Krishnanand, M., Malarmathi, E., Mohamed Saajid, N., & Mohanraj, A. (2024). Investigation into the end-milling Parameters of Mg/B ₄ C metal matrix composites. <i>Engineering Proceedings</i> , 61(1), 33.
Vijaysekar, K. S., & Gobivel, K* . (2023). Experimental and numerical investigations in the turning of 42CrMo alloy steel. <i>Materials Today: Proceedings</i> .
Charukesh, S., Gobivel, K* , Gowtham, K., Saikiran, E., & Niveshith, V. K. (2023). Understanding the process parameters on milling of Ti/B ₄ C metal matrix composite. <i>Materials Today: Proceedings</i> .
Gobivel, K* , & Vijaysekar, K. S., (2022). Investigation on the effect of TiN and Al ₂ O ₃ coated tools in the Machining of Ti-6Al-4 V alloy. <i>Materials Today: Proceedings</i> , 62, 920-924.
Vijaysekar, K. S., Gobivel, K* , Goutham, G. R., Elangovan, P. P., & Babu, N. N. (2022). Cutting forces and tool wear studies on machining of Hastelloy X. <i>Materials Today: Proceedings</i> , 62, 852-857.
Gobivel, K* , & Vijaysekar, K. S., (2022). Influence of cutting parameters on end milling of magnesium alloy AZ31B. <i>Materials Today: Proceedings</i> , 62, 933-937.
Gobivel, K* , Vijaysekar, K. S., & Prabhakaran, G. (2021). Impact of cutting parameters on machining of Ti-6Al-4V alloy: an experimental and FEM approach. <i>International Journal for Simulation and Multidisciplinary Design Optimization</i> , 12, 2.
Gobivel, K* , Vijaysekar, K. S., Prabhakaran, G., & Elankavi, R. S. (2020, April). Experimental investigations on orthogonal turning of Inconel 718 with TiAlN coated tool. In <i>Materials Science Forum</i> (Vol. 979, pp. 142-148). Trans Tech Publications Ltd.
Gobivel, K* , Vijay Sekar, K. S., & Prabhakaran, G. (2018). Finite Element Analysis of High-Speed Machining of CFRP Material. In <i>Advances in Materials and Metallurgy: Select Proceedings of ICEMMM 2018</i> (pp. 137-147). Singapore: Springer Singapore.

IV. RESPONSIBILITIES

Funding Project Coordinator – Institute level (2022 to Till Now): Mailing funding alerts, documenting funding project reports from PI's, maintaining records, providing validated data for institution accreditation process and rankings.

Virtual Lab Nodal Coordinator (2021 to 2024): In collaboration with NIT Surathkal and IIT PALs, developed and deployed few experiments on local host to simulate experiments virtually. Institute level coordinate and outreach v-lab activities.

Department level research coordinator (2024 to Till Now): Coordinated departmental research activities, documentation, and data management under mechatronics department.

Department level training and placement coordinator (2017 to 2023): Managed student placement activities, training programs, and industry interaction under mechanical department.

NBA Accreditation - Criteria 3 (2017 to 2021): Led documentation, data collection, and compliance processes for NBA Criteria 3 under mechanical department.

QS I-Gauge: Worked on institute-level research parameters, including data collection, validation, and documentation for ranking metrics.

V. AREAS OF INTEREST

- ✓ FE Modelling & Simulation (Software's: ABAQUS & ANSYS)
- ✓ Machining
- ✓ Manufacturing
- ✓ Composite Materials & its Processing, Testing & Characterization

VI. EDITOR & REVIEWER PANEL

- ✓ **Serving as Guest Editor (2024 to Till Now)** – Topical Collection: Research Progress in Machining, Machine Tool Vibrations, Welding Processes, and Computational Simulations, **Journal of Visualized Experiments (JoVE)**
- ✓ **Reviewer** for multiple **peer-reviewed international journals**, evaluating manuscripts in my areas of expertise.

VII. ACHIEVEMENTS

- ✓ Secured distinction with a university rank during postgraduate studies.
- ✓ Received appreciation and accomplishment recognition for institute level contributions towards QS I-Gauge research parameters.

Dr. K. GOBIVEL