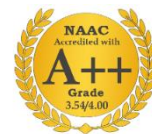





SETHU INSTITUTE OF TECHNOLOGY

(An Autonomous Institution| Accredited with 'A++' Grade by NAAC)

Pulloor, Kariapatti –Taluk. Virudhunagar Dist-626115.



Department of Mechanical Engineering					
Name	Dr. G.VENKATESAN				
Date of Birth	23.03.1980				
Unique ID	1-3356717294				
Educational Qualifications	M.E., Ph.D.,				
Designation	ASSOCIATE PROFESSOR				
Email ID	venkatesan.g@sethu.ac.in				
Alternate Email ID	gvenkat.mce@gmail.com				
Experience	Industry	Teaching	Others	Total	
	4.1 years	16.2 years		20.03 years	
Date of Joining the Institution	11.07.2016				
Area of Specialization	Manufacturing Engineering, Quality, Selective Assembly, Composite Materials , Polymer Materials				
Courses taught	Process Planning and Cost Estimation, Manufacturing Engineering, Engineering Graphics, power plant engineering, manufacturing technology, fundamental of manufacturing process, Engineering mechanics, Measurements				
Research Focus	Manufacturing Engineering, Quality, Selective Assembly, Composite Materials , Polymer Materials				
Subject Competency	Process Planning and Cost Estimation, Manufacturing Engineering, Engineering Graphics, power plant engineering, manufacturing technology, fundamental of manufacturing process, Engineering mechanics, Measurements				
No. of papers published	National Journals		International Journals		Conferences
	0		17		8
PG Specialization	Manufacturing Engineering,				
Ph.D. Specialization	Quality, Selective Assembly				
Projects Carried out	Sustainable and solid waste management- Unnat Bharath Abhiyan Rs100000				
Patents (Filed & Granted)	03				
Technology Transfer	02				



Academic Credentials

Level	Degree	Specialization	University	Year of Completion
UG	B.E	Mechanical	Madurai Kamaraj University	2004
PG	M.E	Manufacturing Engineering	Anna University	2009
Ph.D	Ph.D	Mechanical	Anna University	2018

Details of Journal Publication:

1. **G Venkatesan, A Perumal**, R Prithivirajan, S Muthu Natarajan, P Balasundar, “Investigation of mechanical properties of environmentally friendly human hair fiber-reinforced polymer composite” Journal of Polymer Research, (Dec 2024) Volume 32, Issue 1, Pages-11 <https://doi.org/10.1007/s10965-024-04236-5>
2. **G. Venkatesan** R. Selvabharathi K. Kulathuraan V. Vivek ‘Influence of microstructure and tribology properties on deep-dippingcoating method of sappanwood (SW)/ polyvinyl alcohol(PVA)/ Polyethylene (PE)/ Aluminium nitride (AlN) natural fibernanocomposite materials’ ‘Journal of Polymer Research’ Volume 31, article number 299, (Nov 2024), <https://doi.org/10.1007/s10965-024-04151-9>
3. Prasanna Venkatesh Ramdas Anand Palanivel, Vijayan Rajendran,Lakshmanan Selvam, **Venkatesan Ganapathy, Perumal Arumugam, Rajkumar Putta Ramarathinam** ‘Reinforcement Learning Technique Applied to the Manufacturing Industry for Material Handling System,’ Materials, Analysis, and Advanced Manufacturing ‘AIP Conf. Proc. 3192, 020062-1-020062-8; (NOV 2024) <https://doi.org/10.1063/5.0241663>’
4. Anand Palanivel, Vijayan Rajendran, Lakshmanan Selvam, **Venkatesan, Ganapathy , Perumal Arumugam, Rajkumar Putta. Ramarathinam**, Prasanna , Venkatesh Ramdas, ‘Optimizing Noise Reduction through Redesigned ThreeBlade Horizo’ Materials, ‘Analysis, and Advanced Manufacturing, AIP Conf. Proc. 3192, 020063-1-020063-16; (NOV 2024) <https://doi.org/10.1063/5.0241654>
5. Vijayan Rajendran,Lakshmanan Selvam , **Venkatesan Ganapathy, Perumal , Arumugam, Rajkumar Putta Ramarathinam**, Prasanna Venkatesh Ramdas, Anand Palanivel ‘Finite Element Analysis On Natural Fibre (Musa Sapientum And Hibiscus Sabdariffa) Reinforced Composite Leaf Spring’ ‘Materials, Analysis, and Advanced Manufacturing’ AIP Conf. Proc. 3192, 020064-1-020064-7; (NOV 2024) <https://doi.org/10.1063/5.0241727>
6. Lakshmanan Selvam, **Venkatesan Ganapathy, Perumal Arumugam, Rajkumar Putta Ramarathinam**, Prasanna Venkatesh Ramdas, Anand Palanivel, Vijayan , Rajendran ‘A Study of Oxidation Behaviour of Hard-Faced Surface on Steel Using SMAW’ ‘Materials, Analysis, and Advanced Manufacturing’ ‘AIP Conf. Proc. 3192, 020065-1-020065-7’ (NOV 2024) <https://doi.org/10.1063/5.0241671>
7. **Venkatesan Ganapathy, Perumal Arumugam, Rajkumar Putta Ramarathinam**, Prasanna Venkatesh Ramdas, Anand Palanivel, Vijayan Rajendran, Lakshmanan Selvam. ‘Review on dissimilarly welding techniques titanium alloys’ ‘Materials, Analysis, and Advanced Manufacturing’ AIP Conf. Proc. 3192, 020066-1-020066-8, (NOV 2024) <https://doi.org/10.1063/5.0241775>
8. **Perumal Arumugam , Rajkumar Putta Ramarathinam** , Prasanna Venkatesh, Ramdas , Anand

- Palanivel , Vijayan Rajendran , Lakshmanan Selvam , **Venkatesan Ganapathy**. 'Experimental Investigation of Machining Parameters of EDM Process for Machining Ti Alloy' Materials, Analysis, and Advanced Manufacturing' AIP Conf. Proc. 3192, 020067-1-020067-, (NOV 2024) <https://doi.org/10.1063/5.0241816>
9. **Rajkumar Putta Ramarathinam**, Prasanna Venkatesh Ramdas, Anand Palanivel, Vijayan Rajendran , Lakshmanan Selvam, **Venkatesan Ganapathy**, **Perumal**. "Synthesis, Characterization and Corrosion Resistance of Sol-Gel Treated Aluminium Alloy Materials, Analysis, and Advanced Manufacturing AIP Conf. Proc. 3192, 020068-1-020068-13, (NOV 2024) <https://doi.org/10.1063/5.0241767>
 10. S Tamil Selvan, K Venkataraman, **K Arun Balasubramanian**, **G Venkatesan** ' Improving the vortex tube parameters using CFD analysis for sustainable manufacturing' Materials Science and Engineering Volume 1291, April 2023 DOI 10.1088/1757-899X/1291/1/012037, Impact Factor 6.1.
 11. **Venkatesan G**, **MuthuChozhaRajan B**, Rameson S, "Design and FEA analysis of Braking system", International Research Journal in Global Engineering and Sciences. (IRJGES), ISSN: 2456-172X | Vol. 8 Issue 1 - March 2023 to May 2023| Pages 83-100 Impact Factor- 5.195
 12. A Perumal, PR Rajkumar, **G Venkatesan**, S Paramasamy, T Gangadharan ' Multi-response optimization of machining parameters of Ti-6Al-2Sn-4Zr-2Mo alloy using EDM process through grey relational analysis' Engineering Research Express, April 2023 Volume 5, Number 2 DOI 10.1088/2631-8695/acc6b4 , Impact Factor 1.5.
 13. **Perumal.A**, Azhagurajan.A, Suresh Kumar.S, Prithivirajan.R, Baskaran.S, **Rajkumar.P.R**, **Kailasanathan.C**, **Venkatesan.G**, 'Influence of Optimization Techniques on Wire Electrical Discharge Machining of Ti-6Al-2Sn-4Zr-2Mo Alloy using Modeling Approach', Journal of Inorganic and Organometallic Polymers and Materials, <https://doi.org/10.1007/s10904-021-01953-y> ,Impact Factor 3.9.
 14. **A Perumal**, **C Kailasanathan**, B Stalin, S Suresh Kumar, **PR Rajkumar Venkatesan.G**, Multiresponse optimization of wire electrical discharge machining parameters for Ti-6Al-2Sn-4Zr-2Mo (α - β) alloy using taguchi-grey relational approach, Advances in Materials Science and Engineering 2022, 1-13 <https://doi.org/10.1155/2022/6905239>, Impact Factor 2.56.
 15. S Sivakumar, V Vignesh, IV Arasu, **G Venkatesan**, BRM Rabi, MA Khan , "Experimental investigation on tensile and flexural properties of randomly oriented treated palmyra fibre reinforced polyester composites", Materials Today: Proceedings 46, 7556-7560
 16. A Perumal, C Kailasanathan, B Stalin, PR Rajkumar, T Gangadharan, **G Venkatesan** "Evaluation of EDM process parameters on titanium alloy through Taguchi approach", Materials Today: Proceedings 45, 2394-2400
 17. A Perumal, A Azhagurajan, S Suresh Kumar, R Prithivirajan, S Baskaran, PR Rajkumar, C Kailasanathan, **G Venkatesan** "Influence of optimization techniques on wire electrical discharge machining of Ti-6Al-2Sn-4Zr-2Mo alloy using modeling approach", Journal of Inorganic and Organometallic Polymers and Materials 31 (8), 3272-3289

Details of Conference attended:

Level	Category	Title of the Conference	Paper Title	Date of Conference
National	SCI	RESEARCH ADVANCES IN MECHANICAL ENGINEERING	DESIGN AND ANALYSIS OF CONICAL SHELLS	05-04-2024
National	SCI	Conference on “Research Advances in Mechanical Engineering” RAME’24	DESIGN AND ANALYSIS OF SNAP-FIT	05-04-2024
National	SCI	11th National Conference on “Research Advances in Mechanical Engineering” RAME’24	VEHICLE BODY DESIGN AND ANALYSIS AERODYNAMIC BY FLOW SIMULATION	05-04-2024
International	SCI	International Conference on Materials, Analysis & Advanced Manufacturing (MA’AM - 23)	REVIEW ON DISSIMILAR WELDING TECHNIQUES OF TITANIUM ALLOYS	31-10-2023
International	SCI	International Conference on Emerging Trends in Science, Engineering and Technology	“Electro Magnetic and Braking System”	28-06-2023
International	SCI	International Conference on Emerging Trends in Science, Engineering and Technology	STRUCTURAL AND THERMAL ANALYSIS OF STEAM TURBINE BLADE USING ANSYS SOFTWARE	28-06-2023
International	SCI	International Conference on Emerging Trends in Science, Engineering and Technology	INVESTIGATION ON CORROSION PROTECTION BEHAVIOR OF MG-B 4 C COMPOSITESUNDER SALT SPRAY ENVIRONMENT	28-06-2023
International	SCI	International Conference on Emerging Trends in Science, Engineering and Technology – ICETSET2k23	Design and Fabrication of Stair to Ramp Convertor	28-06-2023

Details of Patents Filed and Granted:

1. Solar Grass Cutting Machine-3951141-001, 15/09/2023 Published
2. "Semi-Trailing Arm Suspension with Integrated Knuckle for Vehicles"
3. Processor implemented method for watermarking and cyber protection of deep learning models

Expert Lecture Delivered:

1. Industrial automation Applications in industries at Dimension Technologies- 06-01-2024
2. Implementation of kaizens to improve the productivity at Sri Vishnu Engineering on 28.01.2025