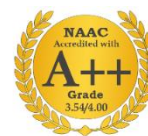





SETHU INSTITUTE OF TECHNOLOGY

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Area of Specialization	Polymer Composites			
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Research Focus	Polymer Composites			
Subject Competency	Finite Element Analysis, Automobile Engineering			
No. of papers published	National Journals	International Journals		Conferences
	--	7		6
PG Specialization	CAD/CAM			
Ph.D. Specialization	Natural Fiber polymer composites			
Projects Carried out	Naan Mudhalvan Niral Thiruvizha- 2024 (State Government Funded Project)			
Patents (Filed & Granted)	2			





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UG	B.E.,	MECHANICAL ENGINEERING	ANNA UNIVERSITY, CHENNAI	2009
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Details of Journal Publication:

1. **David Gnanaraj J**, VigneshV , Mohamed Hashem, Hassan Fouad ‘Statistical approach to explore sustainable characteristics of cellulosic Desmostachya bipinnata fiber and its chemically modified conditions, Materials Research Express, 30(2), 1251-1257 (Aug 2024) Impact Factor 3.5 Doi: <https://doi.org/10.1088/2053-1591/ad7446>
2. **J David Gnanaraj**, S Mothilal, **V Vignesh**, T Karthick, SO Ismail, N Rajini Investigation into Mechanical, Thermal and Water Absorption Behaviors of Cocos nucifera Shell Filler Reinforced Vinyl Ester Polymeric Composites, Journal of Polymers and the Environment, 1-13 DOI:[10.1007/s10924-021-02343-8](https://doi.org/10.1007/s10924-021-02343-8) , Impact Factor 4.7.
3. David Gnanaraj J, ArunBalasubaramania n K, Rajeshwaran S K, Saravanakumar C “Vibration Control on Cantilever beam using shape memory alloys”, International Journal of Recent Researches in Science, Engineering and Technology (IJRRSET), Volume 11 Issue 4 – April 2023 - Pages 17-34 Impact Factor- 1.53
4. Paramasamy S, David Ganaraj J, Siva Sundar S “Enhancing Mechanical properties of polyester composite through natural fiber and filler reinforcement: an experimental study”, International Journal of Research in Mechanical, Mechatronics and Automobile Engineering (IJRMMAE), Volume 7 Issue 4, January – March 2022 - www.ijrmmae.in – Pages 55-76 Impact Factor- 0.9275.
5. David Gnanaraj J, Arun Balasubramanian K, Thamilselvan G K, Ragavendra Rao S, “Reduction of overall manufacturing expenses for both simple and complex assemblies” International Journal of Recent Researches in Science, Engineering and Technology (IJRRSET), Volume 9, Issue 3 – March 2021 - Pages 27-33 Impact Factor- 1.53
6. S. A. Sharuch Khan, J. David Gnanaraj, “ Design of Open Hydraulic Jack and Analysis” ESP Journal of Engineering & Technology Advancements ISSN: 2583-2646 / Volume 4 Issue 2 April 2024 / Page No: 56-62 Doi: 10.56472/25832646/JETA-V4I2P109
7. J. David Gnanaraj, Z. A. Balassem, M. Naresh, T. N. P. Madhuri, K. S and M. Ramya, "Arbitrary Orientation 2-D Utilized to Reconstruct 3-D Space," 2025 International

Details of Conference attended:

1. Design of Open Hydraulic Jack and Analysis- International Conference on Emerging Engineering Technology Science & Humanities (ICEETSH-2024)
2. Analysis of Gearbox Casing Component and Chain Sprocket in Go Kart Vehicle- National Conference on Global Technologies in Manufacturing and Thermal Sciences (GTMTS 2024)
3. Synthesis and Characteristics of B-Tri-Calcium Phosphate- National Conference on Global Technologies in Manufacturing and Thermal Sciences (GTMTS 2024)
4. Physico Properties of Naoh Treated Kusha Grass Fiber- National Conference on Global Technologies in Manufacturing and Thermal Sciences (GTMTS 2024)
5. J.David Gnanaraj, “Experimental study on basalt fiber and steel slag reinforced brake pad” 4th International Conference on Advances in Automobile, Manufacturing, Automation and Mechanical Engineering (ICAAMME 25) held at Eswari engineering college on 19th March 2025
6. J.David Gnanaraj, “experimental investigation of calcium silicate reinforced TCP composite scaffold for critical bone defect application” 4th International Conference on Advances in Automobile, Manufacturing, Automation and Mechanical Engineering (ICAAMME 25) held at Eswari engineering college on 19th March 2025

Details of Patents Filed and Granted:

1. Solar grass cutting machine (Application No -3951141-001)
2. Semi-trailing arm suspension with integrated knuckle for vehicles Application No – (202441100553)