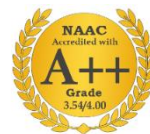





# SETHU INSTITUTE OF TECHNOLOGY

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

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## Department of Mechanical Engineering

Department of Mechanical Engineering					
Name	Dr. S. DEVANAND				
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Experience	Industry	Teaching	Others	Total	
	-	11 Years	-	11 Years	
Date of Joining the Institution	11/06/2014				
Area of Specialization	CAD/CAM				
Courses taught	Object Oriented Python Programming, Finite Element Analysis, Dynamics of Machinery, Heat & Mass Transfer, Gas Dynamics & Jet Propulsion, Thermal Engg., Engg. Graphics, Refrigeration & Air Conditioning, Computer Integrated Manufacturing				
Research Focus	Materials & Manufacturing				
Subject Competency	Thermal Engg.				
No. of papers published	National Journals		International Journals		Conferences
	2		2		5
PG Specialization	CAD/CAM				
Ph.D. Specialization	Materials (Mechanical Engg.)				
Projects Carried out	1. Stair to Ramp Convertor using Pneumatic Cylinders for Disabled People, MSME 2.0 2. Bio mimetic synthesis, characterization of novel nano hybrid composites and development of bone implants by 3D Printing, Multi Media University (MMU), Malaysia				
Technology Transfer	Matching Grant on Bio mimetic synthesis, characterization of novel nano hybrid composites and development of bone implants by 3D Printing, Multi Media University (MMU), Malaysia				

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### ***Academic Credentials***

<b>Level</b>	<b>Degree</b>	<b>Specialization</b>	<b>University</b>	<b>Year of Completion</b>
UG	B.E.,	Mechanical Engineering	Anna University	2012
PG	M.E.,	CAD/CAM	Anna University	2014
Ph.D.	Ph.D.	Mechanical Engineering	Anna University	2024

### **Details of Journal Publication:**

1. Ediga Poornima, S. Devanand, Haeedir Mohameed, R. Shirisha, D. Rahul, Aanandha Saravanan K, Cybersecurity Automation Using Capsule Networks for Adaptive Threat Detection and Defense, 2025 International Conference on Computational Innovations and Engineering Sustainability (ICCIES), 2025.
2. **S. Devanand**, A. Senthil Kumar, R. Selvabharathi, Influence of Severe Double-Shot Peening and Plasma Spray Arc TiAlCr/ AlCrSi Coating on Tribological Behaviour of Pure Aluminium Alloy, Journal of Inorganic and Organometallic Polymers and Materials, Vol. 32, page 4743, 2022.
3. K. Thavasilingam, A. Senthil Kumar, M. Adam Khan, **S. Devanand**, K. Giridharan, Effect of fumed silica in rice bran wax-epoxy coating on aluminum substrate: mechanical, thermal, and water absorption properties, Biomass Conversion and Biorefinery, Issue 5, page 4229-4240, 2021.
4. K. Thavasilingam, V. Ramachandran, G. Satheesh Kumar, **S. Devanand**, R. Madhavan, A Review and Investigation on Carbon Fiber with Hybrid Nano Composites, International Journal of Applied Engineering Research, Vol. 10 No.28, pp.21973-21978, 2015.
5. A. Senthil Kumar, **S. Devanand**, Analysis of Plant Layout in the Zinc Phosphating Plant", IOSR Journal, 2014.

### **Details of Conference attended:**

1. P. Meenatchisundaram, **S. Devanand**, S. Praveen, Numerical Investigation and Optimization of Hole Arrangements in Tapered Aluminum Thin-Walled Tubes for Energy Absorption, 4<sup>th</sup> International Conference on Advance in Automobile, Manufacturing, Automation and Mechanical Engineering(ICAAMME'25), 2025.
2. R. Karthikeyan and **Dr. S. Devanand**, Reverse Engineering of Cera-Metallic Clutch Friction Pad and Tribological Behaviours in Tractor Application, 11<sup>th</sup> National Conference on Research Advances in Mechanical Engineering, 2024
3. **Devanand S**, Dinesh M, Harikrishnan R, Deepan S & Deepan Raj P, Experimental and Numerical Investigation of Concave Shaped Stainless Steel Tubes, Proceedings of 9<sup>th</sup> National Conference on Global Technologies in Manufacturing and Thermal Sciences (GTMTS 2024), 2024

4. **Devanand S**, Balaji G, Ahamed Jassim Musthafa A & Ahamed A, Design and Fabrication of Automatic Side Stand Retrieval System, Proceedings of 9<sup>th</sup> National Conference on Global Technologies in Manufacturing and Thermal Sciences (GTMTS 2024), 2024
5. **Devanand S**, Sivashakthi R, Sriram M & Veerapathiran S, Robotic Arm with Air Gauge, Proceedings of 9<sup>th</sup> National Conference on Global Technologies in Manufacturing and Thermal Sciences (GTMTS 2024), 2024