



**GAYATRI VIDYA PARISHAD COLLEGE FOR DEGREE AND PG COURSES (A)**

**ENGINEERING AND TECHNOLOGY PROGRAM**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**PARTICULARS OF RESEARCH PUBLICATIONS**

**Journal Publications      A.Y 2024-2025**

S.No.	Faculty Name (s)	Title of the Paper	Title of the Journal	Published /Under Review	Volume (ISSUE)	ISSN	YEAR	Indexing
1	Dr.P.V.Vinay	Mechanical Characterization of EcoFriendly Hybrid Composites Reinforced with Camel Hair Fiber, Sisal Fiber, and Kenaf Fiber	Tuijin Jishu/Journal of Propulsion Technology	<b>Published</b>	46(1)	1001-4055	2025	SCOPUS(Q3)
	Dr.Ch.Hima Gireesh							
	Sri.M.V.Prasad							
	Smt.Taj							
2	Dr.P.V.Vinay	Predictive Modeling of Shielding Effectiveness in Al6061 Composites Using Machine Learning and Network Analyzer Data: A Comparative Study of Fly Ash and Aloe Vera Reinforcements	Tuijin Jishu/Journal of Propulsion Technology	<b>Published</b>	46(1)	1001-4055	2025	SCOPUS(Q3)
	<a href="#">Dr.Ch.Hima Gireesh</a>							
	Sri.M.V.Prasad							
3	Dr.P.V.Vinay	Effects of Sol-gel Processed Al <sub>2</sub> O <sub>3</sub> as a Lubricant on Machining Parameters of Al-6063	Recent Patents on Mechanical Engineering	<b>Published</b>	18(2)	1874-477X	2024	SCOPUS
	Sri.Ch.Murali							
4	Smt.Taj	Experimental Study on Surface Characteristics of Inconel 718 Sheets Cutting with Nitrogen - Assist Laser Beam	Tuijin Jishu/Journal of Propulsion Technology	<b>Published</b>	45(1)	1001-4055	2024	SCOPUS (Q3)
5	Dr.K.Sri Ram Vikas	Microstructural Evolution, Precipitation Behaviour, and Corrosion Behaviour of AZ31 Magnesium Alloy Processed by Friction Stir Processing at Varying Tool Rotational Speeds	Journal of The Institution of Engineers (India): Series D (IEID)	Published	1(1)	2250-2142	2025	SCOPUS (Q2)
6	Dr.K.Sri Ram Vikas	"Performance analysis of a Single-Turn Heat Pipe with Nanofluids: Effects of Non-Dimensional numbers and Fill ratio"	Heat and Mass Transfer	Published	64(4)	0947-7411	2025	SCOPUS (Q2) SCIE (Q2)
7	Dr.K.Sri Ram Vikas	Unique Approaches in Developing Novel Nano Composites: Evaluating	Journal of the Mechanical Behavior of Materials	Published	34(1)		2025	SCOPUS (Q2)



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		Their Mechanical and Tribological Characteristics						
8	Dr.K.Sri Ram Vikas	Effect of edge preparation on hardness and corrosion behaviour of AA6061-T651 friction stir welds	Journal of the Mechanical Behavior of Materials	Published	34(1)	2191-0243	2025	SCOPUS (Q2)
9	K.Sai kiran Kumar	Effect of Process Parameters on Surface Roughness in Wire EDM of Titanium Alloys	International Journal of Scientific Research in Engineering and Management (IJSREM)	Published	9(6)	1662-8985	06-2025	Google scholar
	P.Krishna Murty							
	Ch.Murali							
10	Sri.ROMALA RAJESH	Experimental investigation on DI diesel engine fuelled with nanoparticles dispersed biodiesel blend	Recent Advancements in Product Design and Manufacturing Systems	Under review				
11	Sri.ROMALA RAJESH	The Mechanical, Thermal, and Electrical Properties of Nanographene-Aluminum Metal Matrix Composites are Exploited to Create Shielding Materials	Tuijin Jishu/Journal of Propulsion Technology	Under review				



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**PUBLICATION OF PAPERS IN CONFERENCE PROCEEDINGS A.Y 2024-2025**

S.No	Title of the Conference	Place and Organized by	Year	Title of the paper	Authors	Indexing	National/ International	Status of publication
1	International Conference on Additive Manufacturing (ICAM 2024),	National Institute of Technology (NIT) Warangal, India,	2024	Application of Machine Learning Ensemble Methods for Prediction of Surface Roughness for Fused Deposition Modeling Processed Parts	Smt.P. Kiranmayi, Smt.Taj, P.V. Vinay & Ch. Himagireesh	SPRINGER PROCEEDINGS (SCOPUS)	International	Published
2	The 2nd International Conference on "Renewable Energy, Green Computing and Sustainable Development ICREGCSD 2025	CVR College of Engineering, Hyderabad February 21-22, India	2025	Modeling and Thermal Analysis on Dissimilar Weldments of Monel 400 and Steel 316L	Sri.M.V.Prasad	SCOPUS	International	Published
3	Application of AI Smart technologies and Manufacturing (AISTM-2025)	(MLRITM) in Hyderabad, Telangana	7-8 March 2025	Enhancing road safety: Alcohol detection and engine locking with GPS and GSM tracking	Smt.Taj	SCOPUS(Taylor and Francies)	International	Published
4	International Conference on Recent Advances in Mechanical and	Prasad V. Potluri Siddhartha Institute of	8-9 may 2025	Evaluation of Hardness and Wear Characteristics of AA6061-T651	Dr.K. Sri Ram Vikas	Web of Science materials science	International	Published

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	Industrial Engineering 2025(ICRAMIE – 2025)	Technology Kanuru, Vijayawada – 7		Friction Stir Welded Joints				
5	International Conference on Recent Advances in Mechanical and Industrial Engineering 2025(ICRAMIE – 2025)	Prasad V. Potluri Siddhartha Institute of Technology Kanuru, Vijayawada – 7	8-9 may 2025	Microstructural Evolution, hardness and wear Behaviour of AZ31 Magnesium Alloy Processed by Friction Stir Processing at Varying Tool Rotational Speeds	Dr.K. Sri Ram Vikas	Web of Science materials science	International	Published
6	International Conference on Recent Advances in Mechanical and Industrial Engineering 2025(ICRAMIE – 2025)	Prasad V. Potluri Siddhartha Institute of Technology Kanuru, Vijayawada – 7	8-9 may 2025	A fundamental review on composite materials and some of their applications in mechanical, thermal and electrical industries	Dr.P.V. Vinay Dr.Ch. Himagireesh Dr.K.Sri Ram Vikas Romala Rajesh	Web of Science materials science	International	Published



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**PUBLICATIONS OF BOOKS & BOOK CHAPTER A.Y 2024-2025**

Sl. No	Title of the chapter	Title of the Book	DOI	Status of publication	Authors	National / International	Name of the Publisher	Book ISBN	Year
1	Application of Machine Learning Ensemble Methods for Prediction of Surface Roughness for Fused Deposition Modeling Processed Parts	Recent Advances in Additive Manufacturing, (Lecture Notes in Mechanical Engineering)	- <a href="https://doi.org/10.1007/978-981-97-6016-9">https://doi.org/10.1007/978-981-97-6016-9</a>	Published	P. Kiranmayi, Smt.Taj, P.V.Vinay & Dr.Ch.Himagireesh	<b>International</b>	SPRINGER PROCEEDINGS	978-981-97-6015-2	24-12-2024