



# Sri SAI RAM INSTITUTE OF TECHNOLOGY

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Accredited by NBA and NAAC "A+" | An ISO 9001:2015 Certified and MHRD NIRF ranked institution  
Sai Leo Nagar, West Tambaram, Chennai - 600 044. [www.sairamit.edu.in](http://www.sairamit.edu.in)



## DEPARTMENT OF MECHANICAL ENGINEERING PERSONAL ATTENTION PARENTAL CARE

Name : Jeswin Arputhabalan

Designation : Assistant Professor

Email : [jeswin.mech@sairamit.edu.in](mailto:jeswin.mech@sairamit.edu.in)

Qualification : M.E, M.B.A, (Ph.D.)

Specialization : Mechanical Engineering

Research Interest : Composites, Material testing and Characterization

Experience in years : **Teaching** UG: 14 PG: 02

No. of Workshop/Conferences/  
FDP / Webinar attended : Workshop & Webinar: 07 Conferences: 03 FDP: 05



Professional Membership	IEEE
Publications	International Journals: 11 WOS: 09 Others: 02
Patents	Published: 01

### List of Publications:



### Jeswin Arputhabalan

Assistant Professor, Department of Mechanical Engineering, Sri Sairam Institute of Technology

Composites  
Optimisation  
Welding

	All	Since 2018
Citations	81	80
h-index	6	6
i10-index	4	4

TITLE	CITED BY	YEAR
<a href="#">Investigation on the Effect of Friction Welding Parameters on Impact Strength in Dissimilar Joints</a> C Shanjeevi, JJ Arputhabalan, R Dutta IOP Conference Series: Materials Science and Engineering 197 (1), 012069	18	2017

<p>Experimental investigation of corten A588 filler rod for welding weathering steel</p> <p>JR Deepak, VKB Raja, JJ Arputhabalan, GRY Kumar, SK Thomas</p> <p>Materials Today: Proceedings 16, 1233-1238</p>	12	2019
<p>Performance test on compression ignition engine by blending ethanol and waste plastic pyrolysis oil with cetane additive</p> <p>S Padmanabhan, S Ganesan, JJ Arputhabalan, V Chithrala, PG Bairavan</p> <p>IOP conference series: materials science and engineering 197 (1), 012023</p>	12	2017
<p>Investigation of glass fiber influence on mechanical characteristics and resistance to water absorption of natural fiber reinforced polyester composites</p> <p>J Arputhabalan, K Palanikumar, SR Adaikalaraj, MS Priyan</p> <p>Materials Today: Proceedings 16, 843-852</p>	10	2019
<p>Assay of machining attributes in drilling of natural hybrid fiber reinforced polymer composite</p> <p>J Arputhabalan, S Prabhu, K Palanikumar, S Venkatesh, K Vijay</p> <p>Materials Today: Proceedings 16, 1097-1105</p>	8	2019
<p>Experimental investigation on the mechanical properties of aluminium sandwiched sisal/kenaf/aloevera/jute/flax natural fibre-reinforced epoxy LY556/GY250 composites</p> <p>J Arputhabalan, L Karunamoorthy, K Palanikumar</p> <p>Polymers and Polymer Composites 29 (9), 1495-1504</p>	6	2021
<p>Prediction of optimized friction welding parameter for joining of dissimilar material using friction welding</p> <p>C Shanjeevi, J Arputhabalan, E Pavithran, B Raju</p> <p>Materials Today: Proceedings 16, 838-842</p>	6	2019
<p>Studies on mechanical properties of jute fiber composite panels</p> <p>TN Valarmathi, JJ Arputhabalan, S Ravichandran, S Robin, V Revanth, ...</p> <p>Materials Today: Proceedings 16, 1239-1243</p>	4	2019
<p>Tensile Properties of Natural Fiber reinforced polymers: An overview</p> <p>PK Jeswin Arputhabalan</p> <p>Applied Mechanics and Materials 766, 133</p>	4	2015
<p>A novel evolutionary algorithm for engineering design optimization</p> <p>S Padmanabhan, M Chandrasekaran, J Arputhabalan, B Balaji</p> <p>J. Mech. Des. 139, Apr</p>	1	2017
<p>Tensile Strength of Banana- Bamboo- Glass fiber reinforced Natural Fiber Composites</p> <p>JA Ashwin Sailesh, C Shanjeevi</p> <p>Applied Mechanics and Materials 592, 1195-1199</p>		2014

### Patents Details:

1. An Assembly with Mechanical Failure Detection of Selectively Laser Melted Components Constructed On-Site and Method Thereof – Published Application No.202341002128A, The Patent office Journal No. 03/2023, 2023

## **Programs Attended:**

- Two day online workshop on Additive Manufacturing, May 2020, S A Engineering College
- Online webinar on “How to Get Published In Scientific Journal: From Research to Publication”, April 2020, Sri Sai Ram Institute of Technology
- National Seminar on Quality Higher Education, April 2017, Sathyabama University
- National Seminar on Recent developments in underwater welding, March 2017, AMET University
- FDP on Structural Equation Modeling and Preparation of Project Proposal for funding, February 2017, Vels University.
- One day workshop on Recent trends in Manufacturing and Material Technology, March 2016, Sathyabama University
- Two day faculty Training Program on In depth study on Mandatory Mechanical Subjects, May 2014, Sathyabama University
- National Workshop on Emerging Materials and applications, March 2012, AVIT
- International conference on Impact of climate change on Coastal Ecosystem, November 2011, Sathyabama University
- International Conference on Frontiers in Automobile and Mechanical Engineering, November 2010, Sathyabama University
- National Level Workshop on Emerging Trends in Manufacturing Technology, August 2008, St. Josephs College of Engineering