

Name: Jeswin Arputhabalan



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|---|---|----------------------|----------------------------|----------------------|
| Designation | Associate Professor | | | |
| Qualification | M.E, MBA, (Ph.D.) | | | |
| Area of specialization | Composites, Material testing and Characterization | | | |
| Experience | Industrial Experience | | Teaching Experience | |
| | - | | 17 | |
| Number of workshops / FDP attended | Number of Workshops | | Number of FDPs | |
| | 07 | | 13 | |
| Publications | Conference | | Journal | |
| | National | International | National | International |
| | - | 02 | 1 | 15 |
| Book Chapters | 1 | | | |
| Patents | National | | International | |
| | 3 | | - | |
| Professional Body Membership | IEEE, SAE, IAENG | | | |

Educational Qualifications

| Category | Name of the Degree | Specialization | Year of Passing | Name of the College | Name of the University | % of Marks/ Grades obtained | Class obtained |
|----------|--------------------|---------------------------|-----------------|--------------------------------|------------------------|-----------------------------|----------------|
| UG | B.E | Production Engineering | 2003 | Sathyabama Engineering College | University of Madras | 73 | First |
| PG | M.E | Manufacturing Engineering | 2006 | Madras Institute of Technology | Anna University | 7.8 | First |
| PG | M.B.A. | Finance & HR | 2009 | Sathyabama University | Sathyabama University | 7.8 | First |
| PhD | - | Composites | Pursuing | CEG | Anna University | - | - |

Academic Experience

| Name of the College | Designation | Joining Date | Relieving Date | Experience | | |
|------------------------------------|---------------------|--------------|----------------|------------|----------|----------|
| | | | | Years | Months | Days |
| E.V.P. Engineering College | Lecturer | 5 Jul 2004 | 17 Jun 2005 | 0 | 11 | 11 |
| T J Institute of Technology | Lecturer | 20 Jun 2005 | 31 May 2006 | | 11 | 11 |
| Sathyabama University | Assistant Professor | 07 Jun 2006 | 08 Jun 2017 | 11 | 0 | 1 |
| Bharath University | Assistant Professor | 12 Jul 2017 | 31 May 2018 | 0 | 10 | 16 |
| Sri Sairam Institute of Technology | Assistant Professor | 1 Jul 2022 | 27 Aug 2025 | 3 | 1 | 26 |
| Sri Sairam Engineering College | Associate Professor | 28 Aug 2025 | Till date | - | 6 | 0 |
| | | | | 17 | 5 | 5 |

Journal Publications

- Enhancing mechanical properties of hemp fibre/epoxy hybrid nanocomposites through response surface methodology, J Mohammed, M Durga, J Arputhabalan, N Parthiban, R Velumayil, AIP Conference Proceedings 3270 (1), 020248, 2025
- Microcontroller-Based Auto Lock Ignition System for Vehicle Overload Prevention, JJ Arputhabalan, M.Balachandar, T Asaithambi, E Balakrishnan, 2024 International Conference on Communication, Computing and Internet of Things, 2024
- A Cost-Effective Navigational Aid for the visually impaired, B Karthikeyan, GT Selvi, JJ Arputhabalan, A Ponshanmugakumar, International Conference on System, Computation, Automation and Networking, 2023
- Experimental investigation on sun-dried bricks with addition of lignin, SDA Sujitha, JJ Arputhabalan, B.Karthikeyan, K Sivakumar, R Sasikala, Materials Today: Proceedings, 2023
- Tribology behaviour of aluminium alloy joints by friction stir processing, JJ Arputhabalan, R Sangamaeswaran, M.Rajeshwaran, T Asaithambi, Materials Today: Proceedings, 2023
- Experimental investigation on the mechanical properties of aluminium sandwiched sisal/kenaf/aloevera/jute/flax natural fibre-reinforced epoxy LY556/GY250 composites, J Arputhabalan, L Karunamoorthy, K Palanikumar, Polymers and Polymer Composites 29 (9), 1495-1504, 2021
- Studies on mechanical properties of jute fiber composite panels, TN Valarmathi, JJ Arputhabalan, S Ravichandran, S Robin, V Revanth, Materials Today: Proceedings 16, 1239-1243, 2019
- Investigation of glass fiber influence on mechanical characteristics and resistance to water absorption of natural fiber reinforced polyester composites, J Arputhabalan, K Palanikumar, SR Adaikalaraj, MS Priyan, Materials Today: Proceedings 16, 843-852, 2019
- Prediction of optimized friction welding parameter for joining of dissimilar material using friction welding, C.Shanjeevi, J Arputhabalan, E Pavithran, B Raju, Materials Today: Proceedings 16, 838-842, 2019
- Experimental investigation of corten A588 filler rod for welding weathering steel, JR Deepak, VKB Raja, JJ Arputhabalan, GRY Kumar, SK Thomas, Materials Today: Proceedings 16, 1233-1238, 2019
- Assay of machining attributes in drilling of natural hybrid fiber reinforced polymer composite, J Arputhabalan, S Prabhu, K Palanikumar, S Venkatesh, K Vijay, Materials Today: Proceedings 16, 1097-1105, 2019
- Performance test on compression ignition engine by blending ethanol and waste plastic pyrolysis oil with cetane additive, S Padmanabhan, S Ganesan, J Jeswin Arputhabalan, V Chithrala, IOP conference series: materials science and engineering 197 (1), 012023, 2017
- Investigation on the effect of friction welding parameters on impact strength in dissimilar joints, C Shanjeevi, JJ Arputhabalan, R Dutta, Pradeep, IOP Conference Series: Materials Science and Engineering 197 (1), 012069, 2017
- A novel evolutionary algorithm for engineering design optimization, S Padmanabhan, M Chandrasekaran, J Arputhabalan, B Balaji, J. Mech. Des. 139, Apr, 2017

- Tensile Properties of Natural Fiber reinforced polymers: An overview, PK Jeswin Arputhabalan, Applied Mechanics and Materials 766, 133, 2015
- Tensile Strength of Banana- Bamboo- Glass fiber reinforced Natural Fiber Composites, JA Ashwin Sailesh, C Shanjeevi, Applied Mechanics and Materials 592, 1195-1199, 2014

Books / Book Chapters

- Revolutionizing Friction Stir Welding With AI-Integrated Humanoid Robots, BS Ahamed, KS Chakravarthy, J Arputhabalan, K Sasirekha, RMR Prince, Applied AI and Humanoid Robotics for the Ultra-Smart Cyberspace, 120-144, 2024

Patents

- Design Patent 433480-001 Granted on Automated Solar Crop Storage Unit 1.R.Arunkumar 2.Ashwin Sailesh 3.Jeswin Arputhabalan 4.Dr. P. Nantha Kumar 5.Anna Eswara Kumar, 2024
- Design Patent 423567-001 Granted on Kiosk For Providing Collaborative Data For Social Entrepreneurship 1.Dr. N.Venkateswaran 2. Dr. Chandravadan Goritiyal 3.Mr. Jeswin Arputhabalan 4.Dr.A.Pankajam 5.Dr.Akshaya Kumar Mohanty 6.Dr.V.S.Bhagavan, 2024
- Design Patent 396705-001 Granted on Mini Electric Scooter 1.Dr D Lakshmi 2. Mr Jeswin Arputhabalan 3.Mr Shankar Kumar 4.Dr P Duraipandy 5.Dr D.A Shahakar 6.Dr Rajesh T, 2023

FDP Attended

- Six-day Online Faculty Development Program on “Battery Thermal Management System: Design, Optimization and ML Techniques”, Department Mechanical engineering, Maharaj Vijayaram Gajapathi Raj College of Engineering, from 9th to 14th February 2026.
- NPTEL – AICTE FDP on Manufacturing Process Technology through SWAYAM, April 2025
- One FDP on Autodesk Inventor conducted by ICT Academy, 10 Feb 2025 to 15 Feb 2025 at Sri Sairam Institute of Technology.
- 5-day Online FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education (AICTE) from 20th January to 24th January 2025.
- One week FDP on Material Characterization and Optimization conducted by Department Mechanical engineering, CVR College of Engineering from 24 Sep 2024 to 28 Sep 2024.
- Profession Development Programme on Student Psychology conducted by NITTTR, Chennai from 29 July 2024 to 02 August 2024.
- Profession Development Programme on AI and ML in Drone Applications conducted by NITTTR, Chennai from 10 June 2024 to 14 June 2024.

- ISTE Sponsored 6 Days Online FDP on Robotic Process Automation conducted by Department of Mechanical and Automation engineering, 6 May 2024 – 11 May 2024, Sri Sairam Engineering College
- NPTEL – AICTE FDP on Computer Integrated Manufacturing through SWAYAM, April 2024
- NPTEL – AICTE FDP on Theory and Practice of Non Destructive Testing through SWAYAM, March 2024
- NPTEL – AICTE FDP on Principles of Economics through SWAYAM, October 2023
- FDP on Structural Equation Modeling and Preparation of Project Proposal for funding, February 2017, Vels University.
- Two day faculty Training Program on In depth study on Mandatory Mechanical Subjects, May 2014, Sathyabama University

Workshops/Seminars 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
- One day workshop on Recent trends in Manufacturing and Material Technology, March 2016, Sathyabama University
- National Workshop on Emerging Materials and applications, March 2012, AVIT
- National Level Workshop on Emerging Trends in Manufacturing Technology, August 2008, St. Josephs College of Engineering

Conference Attended

- 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