



Sai SAI RAM INSTITUTE OF TECHNOLOGY

An Autonomous Institution | Affiliated to Anna University & Approved by AICTE, New Delhi
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



DEPARTMENT OF MECHANICAL ENGINEERING PERSONAL ATTENTION PARENTAL CARE

Name : R.SANGAMAESWARAN

Designation : Assistant Professor

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

Specialization : Manufacturing Systems and Management.

Research Interest : Welding, Materials Characterization, Optimization Techniques.



Experience in years : **Teaching** UG PG Industry

No. of Workshop/Conferences/
FDP / Webinar attended : Workshop & Webinar Conferences FDP

No. of Workshop/Conferences/
FDP/ Webinar Organized : Workshop & Webinar Conferences FDP

Professional Membership	Life member of ISTE-LM 96935 Life member of IWS-L01998 IAENG,IEEE-98923086
Publications	National :Nil
	International:02
	Book :Nil
Research Funded Projects	Nil
Consultancy	Nil
Patents	Published : 01

Academic Achievements	<p>100 % results in the following subjects</p> <p>Metrology and Measurements Process Planning and Cost Estimation Production Planning and Control Principles of Management Finite Element Analysis</p> <p>4 mentor student got Anna University Rank (2012-16)</p>
Recognitions & Honors	MOE-IIC-Digital Ambassador
Any Other Information	<p>Indian Welding Society Coordinator SAIRAM RAISE Department Member NAAC-Criteria V In charge, ISO, NBA and AAA-File in charge Class Coordinator 2018-22(IV Mech Engg A Sec) Metrology and Measurements Lab In charge Student Coordinator (Co curricular and Extra Curricular)</p>

List of Publications:

1. R J Golden Ranjith Nimal, M Chenthil, **R Sangamaeswaran** ,R Hariharan and G Esakkimuthu
“An Investigation on Microstructural Evolution and Mechanical Properties of Zn Coating as Interlayer on Mg-Al alloys using Diffusion Bonding”. Materials Today: Proceedings Vol 46 PP 3512-3516,2021
2. P Bhagat Singh , **R Sangamaeswaran** , D Prem Kumar and B Gnana Dileep “Effect of Basalt Powder in AA5083 Composites on Microstructure and Mechanical Properties Evolution”. Materials Today: Proceedings Vol 46 PP 3517-3520,2021.
3. **R Sangamaeswaran**, S Muhilan, J Navin, PA Manuelraj “Mechanical and wear properties of friction stir processing AA 6082-T6/B4C aluminium matrix composites” Materials Today: Proceedings,2023.
4. J Jeswin Arputhabalan, **R Sangamaeswaran**, M Rajeshwaran, T Asaithambi, K Sivakumar, M Devi “Tribology behaviour of aluminium alloy joints by friction stir processing” Materials Today: Proceedings,2023.

Patents

1. Published a patent on “An Automated Guided Mobile Robot with Image Recognition”

Workshop / Webinars Attended:

S.No.	Name of the Workshop	Organizers	Mode of Program	Month & Year
1	Two day workshop on “Advances in Lean Manufacturing and Application”	MIT Campus, Anna University, Chennai	Offline	March 2009
2	One day workshop on “Nano coating and Application”	CEG campus, Anna University, Chennai	Offline	May 2011
3	One day workshop on “Advances in Manufacturing”	Velammal Engineering College, Chennai.	Offline	July 2011
4	Two day workshop on “Innovative Product Design and Rapid Manufacturing Strategies”	National Institute of Technology, Tiruchirappalli.	Offline	April 2012
5	One day workshop on “Role of NDT & Metallography in Failure Analysis”	CEG campus, Anna University, Chennai.	Offline	August 2012
6	Two day workshop on “Recent Trends in Natural Composites and Its Hybrids for Structural Application”	Sri Venkateswara College of Engineering, Sriperumbudur.	Offline	September 2013
7	One day workshop on “Advances in Metal Inert Gas Welding Process”	Sri Venkateswara College of Engineering, Sriperumbudur.	Offline	February 2014
8	One day workshop on “Green Composites”	Sri Sairam Institute of Technology, Chennai	Offline	August 2014
9	Two day workshop on “Recent Research Trends in Manufacturing Engineering”	CEG campus, Anna University, Chennai.	Offline	October 2014
10	Two day NRB Research Dissemination Workshop On ‘Friction Stir Processing of Aluminium alloys and Composites’	Indian Institute of Technology, Madras.	Offline	March 2015
11	One day workshop on “Advancements in Welding Technology”	National Institute of Technology, Tiruchirappalli.	Offline	December 2015
12	One day workshop on “Optimization Techniques”	Kings Engineering College, Chennai.	Offline	August 2016
13	One day workshop on “Emerging Trends in Welding Technology”	VIT University, Vellore	Offline	August 2016
14	Two day workshop on “Materials Characterization”	CEG campus, Anna University, Chennai.	Offline	February 2017
15	One day workshop on “New Approaches in Welding Engineering”	SSN College of Engineering, Kalavakkam	Offline	April 2017
16	One day workshop on “Robotic Welding and its Applications”	PSG College of Technology, Coimbatore	Offline	October 2017
17	Two day Seminar on “Challenges and Recent Developments in Welding of Non -Ferrous Alloys”	Sri Venkateswara College of Engineering, Sriperumbudur.	Offline	November 2017

18	Five day workshop on “Advanced Welding Techniques for Joining Dissimilar High Strength Alloys for Aerospace Applications”	Indian Institute of Information Technology, Design and Manufacturing	Offline	April/May 2019
19	One day webinar on “Friction Stir Welding of Aluminium Alloys”	Panimalar Institute of Technology, Chennai	Online	May 2020
20	Two day workshop on “Additive Manufacturing”	S.A. Engineering College	Online	May 2020
21	One day webinar on “Joining of Tubes using Solid State Welding”	Coimbatore Institute of Engineering and Technology	Online	June 2020
22	Two day International workshop on “Advancements in Design and Materials for Product Development”	VIT University, Vellore	Online	October 2020
23	Three day Seminar on “Metallurgical Failure Analysis of Engineering Components”	Indus University, Gujarat	Online	October 2020

FDP Attended:

S.No.	Name of the FDP	Organized by (Institution Name)	Mode of Program	Month & Year
1	MHRD Faculty Development Program on “Advances in Manufacturing Engineering”	National Institute of Technology, Calicut.	Offline	June 2011
2	BRNS Sponsored Program on “Clinic on Failure Analysis (CFA 2011)”	Indira Gandhi Centre for Atomic Research, Kalpakkam.	Offline	December 2011
3	Faculty Development Program on “Design of Experiments and Optimization Techniques”	Sri Venkateswara College of Engineering, Sriperumbudur	Offline	December 2013
4	Faculty Development Program on “Processing and Characterization of Composite materials including Natural fiber Reinforced Composites”	Sri Sairam Institute of Technology, Chennai	Offline	March 2015
5	Faculty Development Program on “Design of Machine Elements”	Saveetha Engineering College, Chennai	Offline	June 2016
6	Faculty Development Program on “Recent Developments in Non Destructive Testing and Materials”	Tagore Engineering College, Chennai	Offline	December 2016
7	Faculty Development Program on “Finite Element Analysis”	Rajalakshmi Engineering College, Thandalam, Chennai	Offline	December 2017
8	AICTE-ISTE Induction/Refresher Programme on “Modern Pedagogy for Engineering Teachers in Making Digital India”	Sri Sairam Institute of Technology, Chennai	Offline	May 2018
9	Faculty Development Program on “FEA using ANSYS Workbench and Solid works Simulations and Smart Manufacturing Using Mastercam”	Vel Tech High Tech Engineering College	Offline	December 2018
10	Faculty Development Program on “Recent Developments in Engineering	Tagore Engineering College, Chennai	Offline	December 2018

	Materials and Nanotechnology”			
11	Faculty Development Program on “Advances in Computational Fluid Dynamics”	Vel Tech High Tech Engineering College	Offline	June 2019
12	Faculty Development Program on “Finite Element Analysis”	Sri Sairam Institute of Technology, Chennai	Offline	November 2019
13	Faculty Development Program on “Introduction to Finite Element Analysis”	Panimalar Institute of Technology, Chennai	Online	May 2020
14	Faculty Development Program on “Mechanical Behavior of Advanced Materials and its Scope for Engineering Application”	Sri Venkateswara College of Engineering, Sriperumbudur	Online	June 2020
15	ATAL Online Faculty Development Program on “3D Printing and Design”	Sathyabama Institute of Science and Technology, Chennai	Online	August 2020
16	ATAL Online Faculty Development Program on “Additive Manufacturing”	Noida Institute of Technology, Greater Noida	Online	November 2020
17	AICTE Short Term Training on “Enhancing Research and Development through Project Based Learning to Achieve Outcome Based Education in Engineering”	Sri Krishna College of Technology, Coimbatore	Online	November 2020
18	ATAL Online Faculty Development Program on “Advances in Manufacturing”	Sardar Vallabhbhai National Institute of Technology	Online	January 2021
19	ATAL Online Faculty Development Program on “Applied Mathematics (Computational Techniques)”	Indian Institute of Information Technology	Online	February 2021
20	ATAL Online Faculty Development Program on “Simulation of welds and Optimization Techniques”	Annamalai University	Online	July 2021
21	ATAL Online Faculty Development Program on “Design of Experiments and Artificial neural network”	M J P Rohilkhand University	Online	August 2021

Conferences Attended:

S.No.	Name of the Conference	Organizer	Month & Year
1	International Conference on “Recent Advances in Mechanical Engineering”	Noorul Islam University, Kanyakumari	April 2010
2	International Colloquium on “Materials Manufacturing and Metrology”	Indian Institute of Technology Madras	August 2014
3	International Conference on “Recent Advances in Materials and Manufacturing Engineering”	Sri Sairam Institute of Technology, Chennai	December 2014

4	International Conference on “Advances in Materials and Manufacturing and Applied Sciences”	Sri Sairam Institute of Technology, Chennai	March 2017
5	International Conference on “Recent Innovations and Developments in Mechanical Engineering”	Bharat Institute of Higher Education and Research, Chennai	November 2019
6	International Conference on “Materials and Manufacturing and Mechanical Engineering for Sustainable Developments”	Sri Sairam Institute of Technology, Chennai	November 2020
7	National Conference on recent Innovation In Mechanical Engineering	Jai Shriram Engineering College	November 2021

Programs Organized (via Dept. /Cells/Clubs):

S.No.	Name of the Program	Responsibility Held	Month & Year
1	Short term Webinar cum Online Training Program on” Intelligent Robotics and Machine Vision Technology	Co-ordinator	May 2020
2	Faculty Development Program on “Manufacturing, Machining and Testing of Composites Materials”	Co-ordinator	June 2020
3	Webinar on “Bio Diversity: It’s Time for Nature”	Co-ordinator	June 2020
4	Webinar on “Future in Automotive Sector: Regulation Perspective”	Co-ordinator	August 2020
5	Webinar on “Digital Transformation in Manufacturing Industry 4.0”	Co-ordinator	September 2020
6	Virtual Awareness Programme on “Design Thinking with Innovative Concepts in 3D Printing”	Co-ordinator	October 2020
7	International Webinar on “Science of Meditation”	Co-ordinator	November 2020
8	Webinar on “Design Thinking, Critical Thinking and Innovation Design”	Co-ordinator	December 2020
9	Webinar on “Student’s Innovation and Entrepreneurship Development”	Co-ordinator	January 2021
10	Webinar on “How to plan for startup and Legal and Ethical steps”	Co-ordinator	February 2021
11	Celebration of World Intellectual Property Day	Co-ordinator	April 2021

12	Entrepreneurship Awareness and startup funding options Program	Co-ordinator	June 2021
13	World Entrepreneurs Day	Innovation Ambassadors	August 2021
14	Seminar on “Understanding Angel and venture Capital Funding”	Co-ordinator	September 2021
15	Webinar on “Design Validation Through Double Diamond approach”	Co-ordinator	October 2021
16	Discussion on “Atma Nirbhar Bharat”	Innovation Ambassadors	November 2021
17	Workshop on Industrial Safety Importance ,Need Analysis and Measures	Co-ordinator	March 2022
18	Workshop on Advanced Welding Technology	Co-ordinator	May 2022
19	Workshop on Smart Manufacturing and Robotics	Co-ordinator	January 2023
