



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 : Dr. M.BALACHANDAR

Designation :Assistant Professor

Email :balachandar.mech@sairamit.edu.in

Qualification : M.Tech, Ph.D

Specialization : ENERGY TECHNOLOGY, COMPOSITES

Research Interest : THERMAL, ENERGY AND COMPOSITE MATERIALS

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	ISTE
Publications	National : 4
	International: 8
	Book : NIL
Research Funded Projects	Production of Mutton tallow powder by spray drying technique
Consultancy	Nil
Patents	Nil
Academic Achievements	Achieved 100% results in Following Subjects 1. Mechatronics 2. Gas Dynamics and Jet Propulsion 3. Advanced IC Engines 4. Thermal Engineering
Recognitions & Honors	Received Best Mentor Award in skill rack performance during the academic year 2021-2022
Any Other Information	1. Conducted Guest Lecture on "HOW TO STUDY THERMODYNAMICS" by on 19 th June 2015 2. Delivered a guest lecture on "Importance of Thermodynamics" on 28 th September 2015 at Mailam

	<p>Engineering College, Tindivanam, Tamilnadu.</p> <ol style="list-style-type: none"> 3. Participated in 19th ISTE TN & P Section Annual Convention for Faculty members of Engineering Colleges – 2016 4. Co-Coordinator of technical event MESSI-15 held at Sri SaiRam Institute of Technology. 5. Co-ordinator of technical event MESSI-17 held at Sri SaiRam Institute of Technology. 6. Convener of FDP titled “HEAT TRANSFER AND COMPUTATIONAL FLUID DYNAMICS TOWARDS INDUSTRIAL APPLICATIONS” on 12th June 2020. 7. Participated in Exhibition cum Industry academia Meet “Waste Management and Social Entrepreneurship” December 2019. 8. Event Coordinator for SUPRA SAEINDIA – Participated in “Student formula- 2019” at Buddh International Circuit, Greater Noida, July 2019. 9. Faculty Coordinator for MESSI 21 held at Sri SaiRam Institute of Technology.
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List of Publications:

1. **M Balachandar**, EV Selvan, A Ponshanmugakumar, S Magesh, ”Sustainable development of natural fiber composite material” Materials Today: Proceedings (2020).
2. P Periyasamy, M Kamaraj, **M Balachandar**, N Ramanan,” Friction welding of dissimilar aluminium 6061and SS 430F steel and its characterizations”.IOP Conference Series: Materials Science and Engineering 912 (3), 032014 (2020).
3. **Balachandar M**, Vijaya Ramnath B, Barath R, Bharath Sankar S Mechanical Characterization of Natural Fiber Polymer Composites, Materials today proceedings 16, 1006-1012 (2019).
4. **Balachandar M**, Vijaya Ramnath B, Jagadeeshwar P, Yokesh R, Mechanical behaviour of Natural and Glass fiber reinforced with polymer matrix composite, Materials today proceedings, 16, 1297-1303 (2019).
5. **Balachandar M**, Vijaya Ramnath B, Ashok Kumar S, Siva Sankar G “Experimental evaluation on Mechanical Properties of Natural Fiber Polymer Composites with Human Hair”, Materials today proceedings, 16, 1304-1311 (2019).
6. **Balachandar Munisamy**, Vijaya Ramnath Bindu Madhavan, Elanchezhian Chinnadurai and Jeykrishnan Janardhanan. “Prediction of mechanical properties of Al6061 metal matrix composites reinforced with zircon sand and boron carbide” Materials Testing 61 (6), 537-542 (2019).

7. **M Balachandar**, M.A. Venkatasubramanian, A. Balaji Raja, R.Arunkumar,” Investigation of Mechanical Properties on Woven Glass – Sisal Fibre Hybrid Composites” SSRG International Journal of Mechanical Engineering (SSRG-IJME) 6 (11), 8-14 (2019).
8. **M Balachandar**, M RamKaushik, R Barath, N Ramanan, “Experimental characterization of laminates for tensile and impact properties” International Journal of Mechanical Engineering and Technology (IJMET) Volume 9, Issue 9, September 2018, pp. 214–219.
9. **M. Balachandar**. M, Naveen. S, Nagendra Kumar.N, Nandhu surya N,,” Polymer matrix composite material using in audio chasis application”. International Journal of Mechanical Engineering and Technology 9 (12), 778-785 (2018).
10. Sankar D , **Balachandar M**, AnbuvananT, Rajagopal S, Thankarathi T and Deepa N, Condenser cooling system & effluent disposal system for steam-electric power plants: Improved techniques, Membrane Water Treatment, *Vol. 8, No. 4 (2017)*.
11. M. Rajmohan , **M. Balachandar** and D. Kasinathan, Analysis of Lap Joints in Composite Materials, Indian Journal of Science and technology, Vol 9(48), DOI: 10.17485/ijst/2016/v9i48/108468, December 2016.
12. D.Kasinathan, **M.Balachandar** ,Performance Analysis of A Domestic Refrigerator By Using Various Refrigerants, 4th National Conference on Refrigeration and Air Conditioning (NCRAC-2015) Rajalakshmi Engineering College, Chennai, 28th to 30th October 2015.

List of Patents: *NIL*

Workshop / Webinars Attended:

Sl.No.	Name of the Workshop	Organizers	Mode of Program	Month & Year
1	Heat Transfer	Indian Institute of Technology Bombay	Off line	Nov 2011
2	Recent Trends in Product Design and Development	Anna University, Chennai	Off line	May 2012
3	Design of Experiments	Sri SaiRam Institute of Technology, Chennai	Off line	July 2015
4	Green Composites	Sri SaiRam Institute of Technology, Chennai	Off line	August 2014
5	Fuzzy logic and Neural Network approaches for Engineering Solutions	Journal of advanced Engineering Research and powered hexacube	On line	May 2020
6	Design of Experiments on Engineering Perspective	Journal of advanced Engineering Research and powered hexacube	On line	April 2020

7	Emerging Simulation Trends In Automotive Industry	SRM Institute of Science and Technology, Ramapuram Campus, Chennai	On line	July 2020
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FDP Attended:

S.No.	Name of the FDP	Organized by (Institution Name)	Mode of Program	Month & Year
1	Recent trends on Automotive New Product Development	Sathyabama Institute of Science and Technology, OMR Chennai.	On line	July 2020
2	Engineering Thermodynamics Essentials	Sri Venkateswara College of Engineering, Chennai.	On line	May 2020
3	Smart manufacturing – Opportunities & Challenges	St Josephs College of Engineering, OMR Chennai.	On line	August 2020
4	Recent trends in Aerodynamics	SRM Institute of Science and Technology, Chennai.	On line	December 2020
5	Computational Fluid Dynamics	AICTE Training and Learning (ATAL) Academy	On line	September 2020
6	Green technology & Sustainability Engineering	AICTE Training and Learning (ATAL) Academy	On line	October 2020
7	Emerging research areas in Aerodynamics	Bannari Amman Institute of technology, Sathiyamangalam.	On line	August 2020
8	Advanced Energy Conversion Technologies	SRM Institute of Science and Technology, Chennai.	On line	May 2020.
9	Modern Materials and Industrial Automation	Sri SaiRam Institute of Technology, Chennai.	On line	June 2020
10	Introduction to Finite Element analysis	Panimalar Institute of Technology, Chennai.	On line	May 2020
11	Advancements in Mechanical, production & civil engineering and ICT in teaching - learning Process	Sri SaiRam Engineering College, Chennai.	On line	May2020
12	Cyber-Physical Manufacturing Systems for further Industries (CPMS)	IFET College of Engineering, Villupuram.	On line	August 2020.

13	Advances in Computational Fluid dynamics	Vel Tech High Tech, Avadi	Off line	June 2019
14	Recent Developments In Engineering Materials and Nano Technology	Tagore Engineering College, Rathinamangalam, Chennai.	Off line	December 2018
15	Kinematics of Machinery	Sri Sairam Engineering College, Chennai.	Off line	December 2017
16	Thermal Engineering	Kings Engineering College, Chennai	Off line	November 2017
17	Bio-De Gradable, Green and Nano Composites for Industrial Application Manufacturing Methodologies and Properties	Sri Sairam Institute of Technology, Chennai.	Off line	November 2017
18	Autodesk Inventor	Panimalar Institute of Technology. Chennai.	Off line	May 2016
19	Recent Developments in Non-Destructive Testing and Materials	Tagore Engineering College, Chennai	Off line	December 2016
20	Processing and Characterization of Composites Materials Including Natural Fiber Reinforced Composites” organized by Department of Mechanical Engineering	Sairam Institute of Technology, Chennai.	Off line	March 2015
21	Dynamics of Machinery	Saveetha Engineering College, Chennai	Off line	June 2012
22	Soft Skills and Class Room Dynamics	I.F.E.T College of Engineering, Villupuram	Off line	December 2007
23	Motivation For Creativity	I.F.E.T College of Engineering, Villupuram	Off line	June 2007
24	Funded Projects	I.F.E.T College of Engineering, Villupuram	Off line	April 2007

Conferences Attended:

S.No.	Name of the Conference	Organizer	Month &Year
1	International conference on Science, Engineering & Management Research.	Vel Tech High Tech Avadi	March 2018
2	Cooling System Suitable for Application in Remote Areas	I.F.E.T College of Engineering, Villupuram.	August 2018
3	Cooling System Suitable for Remote Areas	Easwari College of Engineering, Ramapuram, Chennai.	March 2013
4	Surface And Machining Characteristics Of Aisi4340 Stainless-Steel Turned In Minimum Quality Lubrication	SSN college of Engineering, Chennai	

Programs Organized (via Dept. /Cells/Clubs:

S.No.	Name of the Program	Responsibility Held	Month &Year
1	Heat Transfer And Computational Fluid Dynamics Towards Industrial Applications	Convener	June 2020
2	Advances in automotive technology	Organizer	August 2017
3	Automobile club	Member	October 2020
4	Sai Muthamizh Mandram	Member	June 2021
5	Future scope for engineers	Organizer	December 2021
