



SRI SAI RAM ENGINEERING COLLEGE

An Autonomous Institution | Affiliated to Anna University & Approved by AICTE, New Delhi
 Accredited by NBA and NAAC "A+" | IS/ISO 21001 : 2018 (EOMS) Certified by BIS and NIRF ranked institution
 Sai Leo Nagar, West Tambaram, Chennai - 600 044. www.sairam.edu.in



DEPARTMENT OF MECHANICAL ENGINEERING

Name : P. Nantha kumar

Designation : Associate Professor

Email : nanthakumar.mech@sairam.edu.in

Qualification : M.E, Ph.D.

Specialization : Manufacturing

Research Interest : Alternate Energy, New Materials, Waste Management

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, IEEE
Publications	National: 2
	International: 15
	Book: 2
Research Funded Projects	-
Consultancy	Nil
Patents	2
Academic Achievements	Achieved 100% results in Following Subjects 1. Manufacturing Technology 2. Engineering Materials and Metallurgy, 3. Power Plant Engineering 4. Engineering Graphics
Recognitions & Honors	Received Best Paper Award at SSN International Conference
Any Other Information	1. Department Talent Enabler 2. Acted as Industrial Visit Coordinator 3. Conducted 35 Guest Lecture programs

	4. Brought Ford Demo Car through CSR activity 5. SAIL App Coordinator 6. Admission Core Team Member 7. IITB- Spoken Tutorial Coordinator 8. NPTEL coordinator 9. Visited Thirumidivakkam Industrial Estate one week 10. Co-Ordinator- Sairam Space Science Program
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List of Publications:

i. International Journals

1. B. Navin Kumar, J. Vijayarangam, T. Sathish, A. Vasudevan, R. Pandiyarajan, G. Balaji, N. Karunagaran, **P. Nanthakumar**. Design and fabrication of bamboo composites sandwich panels for flooring, Materials Today: Proceedings, 2021. <https://doi.org/10.1016/j.matpr.2021.03.145>
2. Kumaresan G, Bharathiraja G, Anbuechezhiyan G, Ashwin Sailesh, **Nantha Kumar P**. Investigation on wear properties of super alloys using thermal barrier coating method, Materials Today: Proceedings, 2021. <https://doi.org/10.1016/j.matpr.2021.03.203>
3. T. Sathish, Sujin Jose Arul, Gopal Kaliyaperumal, G. Velmurugan, De Poures Melvin Victor, **P. Nanthakumar**. Comparison of yield strength, ultimate tensile strength and shear strength on the annealed and heat-treated composites of stainless steel with fly ash and ZnO, Materials Today: Proceedings, 2021. <https://doi.org/10.1016/j.matpr.2021.03.145>
4. T. Sathish, Gopal Kaliyaperumal, G. Velmurugan, De Poures Melvin Victor, **P. Nanthakumar**. Investigation on augmentation of mechanical properties of AA6262 aluminium alloy composite with magnesium oxide and silicon carbide, Materials Today: Proceedings, 2021. <https://doi.org/10.1016/j.matpr.2021.03.189>
5. A. Hemnath, G. Anbuechezhiyan, **P. NanthaKumar**, N. Senthilkumar. Tensile and flexural behavior of rice husk and sugarcane bagasse reinforced polyester

- composites. *Materials Today: Proceedings*, 2021.
<https://doi.org/10.1016/j.matpr.2020.11.786>
6. N. Karunakaran, G. Bharathiraja, A. Muniappan, **P. Nanthakumar**. Interlaminar shear strength behaviour of surface treated steel wire mesh/glass fibre reinforced hybrid composite laminate, *Materials Today: Proceedings*, 2021.
<https://doi.org/10.1016/j.matpr.2021.02.528>
 7. T. Niruban Projoth, De Poures Melvin Victor, **P. Nanthakumar**. Analysis and prediction of cutting force through lathe tool dynamometer in CNC turning process. *Materials Today: Proceedings*, 2021. <https://doi.org/10.1016/j.matpr.2021.02.681>
 8. J. Thamilarasan, N. Karunakaran, **P. Nanthakumar**. Optimization of oxy-acetylene flame hardening parameters to analysis the surface structure of low carbon steel. *Materials Today: Proceedings*, 2021.
<https://doi.org/10.1016/j.matpr.2021.02.680>
 9. Pandiyarajan R, Balaji G, Sathish T, Navin Kumar B, Vijayarangam J, Vasudevan A, Karunakaran N, **Nanthakumar P**. Micro structural and tensile behaviour of FS welded dissimilar Al-Cu alloy. *Materials Today: Proceedings*, 2021. <https://doi.org/10.1016/j.matpr.2021.03.148>
 10. R. Pugazhenthii, D. Sreeram, Clement Tom Scaria, G. Anbuechezhiyan, **P. Nanthakumar**, Effect of process parameters on machining of Al -TiC metal matrix composites using RSM, *Materials Today: Proceedings*, 2021.
<https://doi.org/10.1016/j.matpr.2020.11.357>
 11. **P. Nantha Kumar**, A. Rajadurai and T. Muthuramalingam, Dynamic Mechanical Analysis of Sub-micron Size Flyash Particles Filled Polyester Resin Composites, *Lecture Notes in Mechanical Engineering*, Springer Nature Singapore Pte Ltd. 2019,
https://doi.org/10.1007/978-981-13-1780-4_20 .

12. **Nantha Kumar. P.,** Rajadurai. A., Muthuramalingam. T.: Thermal and mechanical behaviour of sub-micron sized fly ash reinforced polyester resin composite. Mater. Res. Express 5 (2018) 045303
13. **Nantha kumar. P,** Rajadurai. A, Muthuramalingam. T. “Multi Response Optimization on Mechanical Properties of Silica Fly Ash Filled Polyester Composites Using Taguchi-Grey Relational Analysis”, SILICON (2018), 10:1723–1729, (DOI: 10.1007/s12633-017-9660-8)
14. **Nantha Kumar. P,** Nagappan. V, Karthikeyan. C, “Effects of Fly Ash, Calcium Carbonate Fillers on Mechanical, Moisture Absorption Properties in Poly Vinyl Chloride Resin”, Materials Today Proceedings
15. **Nantha kumar. P,** Rajadurai. A , “Effect of carbon fibre, silica and fly ash particulate addition on tensile and impact behavior of polyester and epoxy resin”, Applied Mechanics and Materials, Vol. 592-594, 2014, pp 186-191.

(ii) National Journal:

1. Kasi. T, **Nantha kumar. P,** Rajadurai. A “Fabrication and Testing of Fly Ash filled epoxy resin composite”, 4th National Conference on Advances in Mechanical Engineering (NCAME), Sri Balaji Chockalingam Engineering College, Arni, Tamil Nadu, 2014, pp 174-177.
2. **Nantha kumar.P.** Rajadurai. A, “Effect of assorted fly ash filler on tensile and flexural behaviours in carbon fibre mat reinforced plastics”, Advances in Materials Design and Manufacturing (AMDM) - 2013, B.S.Abdur Rahman University, pp D 45-50.

List of Patents:

1. A HEIGHT ADJUSTING MECHANISM FOR TWO-WHEELERS
2. PORTABLE SUGAR CANE HARVESTOR

Workshop / Webinars Attended:

Sl.No.	Name of the Workshop	Organizers	Mode of Program	Month & Year
1.	Overview of Non-Destructive Testing on Weldment	AMET	Online	15 May 2020.
2.	Electric Vehicle for a Sustainable Future	RMKCET	Online	10 MAY 2020
3.	MECH 4.0 TECHNICAL WEBINAR SERIES	Sathyabama Institute of Science Technology, in association with Ashok Leyland	Online	7th 8th May 2020.
4.	Materials Science: 10 Things Every Engineer Should Know	University of California, Davis and offered through Coursera	Online	05/08/2020
5.	Introduction to IOT	Future skills Nasscom	Online	24th Apr 2020
6.	Digital Manufacturing & Design	University at Buffalo and The State University of New York	Online	07/01/2020
7.	Ferrous Technology II	Pohang University of Science and Technolog	Online	07/01/2020
8.	Digital Manufacturing – A new Era	Sri Sairam Engineering College	Online	10 th Jun 2020
9.	Fundamentals of Management	University of California, Irvine	Online	07/01/2020
10.	INTRODUCTION TO BRAKE SHIM	SRMIST KATTANKULATHUR	Online	22 June 2020
11.	Wind Energy	Technical University of Denmark (DTU)	Online	06/30/2020
12.	RECENT TRENDS IN ABRASIVE WATER JET MACHINES	MIT, Chrompet	1 day	19 FEB 2016
13.	NEW MATERIALS CHARACTERIZATION AND APPLICATION	MIT, Chrompet	2 days	13, 14 OCT 2015.
14.	COMPOSITE MATERIALS	Velammal Engineering College	1 day	Apr 2011
15.	GEO POLYMER COMPOSITES	Annamalai University	1 day	May 2010

FDP Attended:

S.No.	Name of the FDP	Organized by (Institution Name)	Mode of Program	Month & Year
1	Advanced NDT Techniques & Applications in Industry”	QISCET, Ongole.	Online	25 to 29 May,2020

2	Novel Materials and it's Industrial Applications	Karpagam College of Engineering, Coimbatore.	Online	13" May 2020 to 18 May 2020
3	Advanced NDT Techniques & Applications in Industry	Indian Society for Non Destructive Testing, Hyderabad Chapter	Online	25 to 29 May,2020
4	KINEMATICS OF MACHINERY	MNM Jain Engineering College	Two weeks	26 Nov to 8 Dec '18
5	Automobile Engineering	Sri Sairam Engineering College	7 days	29 Nov to 5 Dec 17
6	Computer Aided Design	Sri Sairam Engineering College	3 days	4-6 Aug 2016

Conferences Attended:

S.No.	Name of the Conference	Organizer	Month &Year
1	International Conference on Engineering Materials, Metallurgy And Manufacturing (ICEMMM2018)	SSN College, Chennai.	15-16 February 2018
2	Second International Conference on Advances in Materials, Manufacturing and Applied sciences (ICAMMAS '17)	Sri Sairam Institute of Technology	31 march 17
3	International Mechanical Engineering Congress 14 (IMEC 14)	NIT -TRICHY	MAY 2014

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

S.No.	Name of the Program	Responsibility Held	Month &Year
1.	Recent Trends in Computer Vision with a Focus on Medical Imaging	Organiser	Aug 2021
2.	Standard procedures and techniques for doing a good Ph.D	Organiser	Jul 2021
3.	Modern Materials and Industrial Automation	Organiser	Jun 2020

4.	Pre-Conference workshop titled “ Automotive Materials Workshop ” on at Sri Sairam Institute of Technology.	Co-Ordinator	Mar 17
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