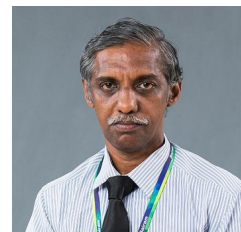


SRI SAI RAM ENGINEERING COLLEGE



1. Name : **Dr.V.RAVI RAJ**
2. Designation : Associate Professor,
Department of Mechanical Engineering,
Sri Sairam Engineering College, Chennai-44
3. Email and contact number : raviraj.mech@sairam.edu.in and 9380743129
4. Date of Birth : 20-06-1967
5. Academic Qualification :

S. No.	Degree	Year	Subject	University/Institution	% of marks
1.	B.E.,	1988	Mechanical Engineering	Madurai Kamaraj University	68.2% First class
2.	M.E.,	2005	Product Design & Development	College of Engineering, Anna University, Chennai-25	First class with Distinction
3.	Ph.D	2023	Polymer Composites	Anna University, Chennai-25	-

6. Ph.D thesis title : Experimental Investigation of Mechanical, Thermal and Wear behavior of PMMA and Silicon carbide toughened Glass- Epoxy hybrid Polymer Composites.

Guide : Dr.B.Vijaya Ramnath, Professor/Mech.Engg.,
Sri Sairam Engineering College, Chennai-44.

University : Anna University, Chennai-600 025

Year of Award : September, 2023

7. Work experience :

S. No.	Positions held	Name of the Institute	From	To
1.	Associate Professor	Sri SaiRam Engineering College, Chennai.	19.08.2009	Presently working
2.	Assistant Professor	Aarupadai Veedu Institute of Technology, Chennai.	21.06.2005	17.08.2009
3.	Lecturer	Sri Muthukumaran Institute of Technology, Chennai.	07.06.2001	04.06.2005
4.	Lecturer	M.N.M.Jain Engg.College, Thoraipakkam, Chennai.	10.07.1996	06.06.2001
5.	Assistant Manager (Technical)	Deve Annapoorna Food & Beverages Industries Ltd., Chennai.	23.03.1992	07.05.1996
6.	Maintenance Manger	Veenus Automobiles, Anna nagar, Chennai.	15.06.1990	20.03.1992
7.	Lecturer	Gomathi Ambal Polytechnic, Sankarankoil.	20.07.1989	21.05.1990
8.	Trainee Engineer	N.A.Ragmathullah Automobiles,	10.06.1988	10.07.1989

		Kovilpatti		
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8. Publications details:

Sl. No.	Title of the Paper	Authors	Journal Details
1.	The influence of the hardened matrix machining parameters on the process and production cost of the polypropylene cutting jacket	V. Ravi Raj, S. Karthikeyan P. Hemkumar N. Rajesha A. Sathish Kumar J. Dhiyaneswaran	ELSEVIER -Materials Today Proceedings mail address: raviraj.mech@sairam.edu.in https://doi.org/10.1016/j.matpr.2023.08.094
2.	Evaluation of the mechanical strength of mortars with almond shell ash	V. Ravi Raj, Yogesh pathak, K. Parthasarathy, D. Pavan Kumar, Yagya Dutta Dwivedi, T. Sathish	ELSEVIER -Materials Today Proceedings https://doi.org/10.1016/j.matpr.2023.08.097 , Accepted 9 August 2023
3.	Mechanical, Thermal and Wear Behavior of SiC Particle Strengthening of PMMA-Toughened Glass-Epoxy Hybrid Composite	V. Ravi Raj & B. Vijaya Ramnath	Silicon, Springer, July 2020, DOI 10.1007/s12633-020-00580-5 ISSN 1876-990X, Volume 13, Number 6, Silicon (2021) 13:1925-1932
4.	Time Dependent Behaviour of PMMA-Toughened Siliconized SiC Strengthened Glass-Epoxy Composite	V. Ravi Raj, B. Vijaya Ramanth, A. Rajendra Prasad, C. Elanchezhian, E. Naveen N. Ramanan	Silicon, Springer, 15 June, 2021 https://link.springer.com/article/10.1007/s12633-021-01198-x
5.	Demonstrating and Investigating the Mechanical Strength of Solar Cells	V. Ravi Raj, R. Krishna Priya, K. V. Bindu, N. Prabhu, S. Madhavarao , G. Ramkumar, A. H. Seikh, M. H. Siddique, Endalkachew Mergia Anbese	Hindawi International Journal of Photoenergy Volume 2022, Article ID 4713869, 9 pages, Published 19 September 2022 https://doi.org/10.1155/2022/4713869
6.	The compressive properties of AZ92A magnesium alloy containing titanium were studied by varying the hot-pressing and annealing temperature ranges	V. Ravi Raj S. Jagadeesha K. V. Pradeep Kumar Agegnehu Shara Shata P. Sathish Kumar S. Madhavarao G. Puthilibai	ELSEVIER -Materials Today Proceedings Volume 59, Part 2, 2022, Pages 1491-1497 https://doi.org/10.1016/j.matpr.2022.01.246
7.	Mechanical and corrosion resistant properties of nitrated low carbon steel	V. Ravi Raj , B. Vijayaramnath , N. Ramanan , A. Ponshanmugakumar	ELSEVIER -Materials Today Proceedings https://doi.org/10.1016/j.matpr.2020.11.460 , November 2020
8.	Mechanical Properties of Hybrid Polymers for Break pad applications	Ravi Raj.V, Vijaya Ramnath. B, Srinivasan.R, Sethuvelappan.P, Ramanan.N	IOP Conf.Series: Materials Science and Engineering, doi:10.1088/1757-899X/961/1/012004
9.	Study of Nano particles of Aluminum oxide and Magnesium oxide used counter flow heat Exchanger heat transfer,	Ravi Raj.V, Chitradevi. Muruganandam.D S, Puthilibai.G, Sivaprasad.R, Dhanalakshmi.A	Materials Today Proceedings, Elsevier Publishing Ltd., September, 2020, https://doi.org/10.1016/j.matpr.2020.08.192

10.	Effectiveness enhancement A Review on Automobile Gear Transmission Mechanism Friction and Wear Properties of Polymeric Composite Materials for Bearing Applications	Hariprasath N, Raviraj.V	International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 07 Issue: 02 ,Feb 2020 www.irjet.net p-ISSN: 2395-0072
11	Design, Analysis and Fabrication of Hybrid Human Powered Tricycle	N.Hariprasad , M.S.Yogeswaran , K.Girirajan , V.Raviraj	International Journal of Innovative Research in Technology, ISSN: 2349 – 6002,Volume 6 Issue 11 , April 2020
.12.	Nature Inspired Design of a Connecting Rod using the Longitudinal Section of Palm Tree	Hariprasad. N , Meghavahini. M , Yazhini. M , Jeevanandam. K , Raviraj. V	International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.177 Volume 8 Issue II Feb 2020-
13.	Experimental Research on Roselle / Glass Fibre Hybrid Polymer Composites	Ram Dhiwakar S , P.N.Bharath Kumar, V.Ravi Raj , B.Vijaya Ramnath	International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-9 Issue-2, December, 2019, DOI: 10.35940/ijeat.B3210.129219
14.	Machining Process Parameters on Green Composite Material	V. Ravi Raj , S. Rangarajan, B.Vijaya Ramnath, D.Muruganandam J.Jayapriya	International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9 Issue-1, November 2019 DOI: 10.35940/ijitee.A2212.119119
15.	Development and Field Trials of Ultra Low Wind Speed Vertical Axis Wind Turbine (VWAT) for Home Application Implementation of Magneto-rheological dampers in bumpers of Automobiles for reducing impacts during accidents	Ravi Raj.V , Vijaya Ramnath. B, Naveen. E, Ramanan. N	International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9, Issue-1, November 2019 DOI: 10.35940/ijitee.A4150.119119
16.	Autonomous coconut tree climber	R. Ashok Gandhi S. Krishnaraj, V. Raviraj , S. Ganapathy S. Ramachandran	Indian Journal of Science and Technology, Vol 9(S1), DOI: 10.17485/ijst/2016/v9iS1/108479, December 2016 ISSN (Print) : 0974-6846 ISSN (Online) : 0974-5645
17.	Creating a microcontroller-based system for detecting alcohol in vehicles	T.Imthiyaz Ahamed, R.Sundarrajan, G.T.Prasaath V.Raviraj	Science Direct, Procedia Engineering 97 (2014) 1220 – 1226, doi: 10.1016/j.proeng.2014.12.400
18.	Designing and Fabrication of Panoramic Cooling System	B Vijaya Ramnath, V Ravi Raj , R M Sanjay Kumar, S Gananathji Naveen Kishore, A Jude Asmek	2024 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS) 979-8-3315-0884-5/24/\$31.00 ©2024 IEEE DOI: 10.1109/ICPECTS62210.2024.10780431
19.	Development and characterization of high-strength reinforced with Limonia acidissima	Ravi Raj V Santhosh kumar S, Deepak S, Pratheep kanna S	Journal of emerging technologies and innovative research, Volume 11,issue 4,pages f1 - f5 Publisher jetir, 2024/4
20.		Ravi Raj V Vijaya Ramnath B Sanjay Kumar R M Gananathji Naveen Kishore S	2024 International Conference on Smart Technologies for Sustainable Development Goals (ICSTSDG) 979-8-3315-1628-4/24/\$31.00 ©2024 IEEE DOI: 10.1109/ICSTSDG61998.2024.11026382
21.		V. Ravi Raj V. Karthika L. Geetha Ramesh Velumayil Vijetha Ponnamm M. S. Karuna V. Vijayan	AIP Conf. Proc. 3270, 020207 (2025) https://doi.org/10.1063/5.0263777

shell powder: An epoxy matrix approach

22. Impact of fabrication parameters on the performance of hemp fiber-reinforced vinyl ester (HFRVE) composites
V Ravi Raj
 G Gnanakumar
 G Vinoth Kanna
 Vijaya Dasaradha
 Sani Ramesh
 Velumayil
 Amit Kumar Sharma,
 V Vijayan
 AIP Conference Proceedings, Volume 3270, Issue 1, Pages- 020208, AIP Publishing LLC
23. Development of Aluminum-Based Metal Matrix Composite for Dry Bearings Reinforced with Titanium Dioxide and Silicon Carbide
V Ravi Raj
 SV Dhivya Prabhan
 M Jayasooriya
 TS Sairam
 SAE Technical Paper, Publication date 2024/9/2, Issue 2024-01-5091

9. Books/Book Chapters:

S.No	Title	Author(s) Name	Publisher	Year of Publication
1.	Book Chapter- Energy Efficiency and Renewable Energy Adoption	V. Ravi Raj M. Prabakaran P. Selvakumar T. C. Manjunath	IGI Global Publications	2025, DOI: 10.4018/979-8-3693-9750-3.ch007
2.	Text Book- Design of Machine Elements	Dr.V.Ravi Raj U.Sangameswaran Dr.K.P.Vasanthakumar M.Siva	Quill Tech Publications	2025, ISBN : 978-93-6786-895-9

10. Detail of patents:

S. No	Patent Title	Name of Applicant(s)	Patent No.	Award (Published) Date	Agency/ Country	Status
1.	An Industrial Device for Pallet wrapping	Dr.Swarnambuj Suman V.Ravi Raj Dr.Chandrika V S Dr.Radhika Baskar Dr.Firos A Dr.Shailendra Kumar Bohidar	354210-001 & cbr Number: 210485	13.01.2022	https://search.ipindia.gov.in/IPOJournal/Journal/Patent	Design Patent Granted on 03/05/2023
2.	Variable Speed DC Motor Controlled Screw Conveyor For compressed Garbage	V.Ravi Raj Dr. P. Ram Kishore Kumar Reddy Mr. M. Prasath Mr. P. Prakash Mr. C. Ramesh Vishal Wankhade Prof. Amruta Jagdish	202341038042	29.09.2023	https://search.ipindia.gov.in/IPOJournal/Journal/Patent	Published

		Killol S Arunkumar Dr. P. Nagasekhara Reddy Dr. P. Lakshmi Supriya				
3.	Intelligent Robotic Prosthetic Limb with neural interface for natural movements	V. Ravi Raj Dr K. Mahesh Dutt Dr. Manepalli Sailaja R Meenakshi Reddy Mr.A.Inbasekaran Mr. S Manoj Kumar Mr. Supreeth. S Dr. Mohammad Shahid Naveenkumar P Rangarajan R	202341087178 A	05.01.2024	https:// search.ipin dia.gov.in/ IPOJournal / Journal/ Patent	Publishe d
4.	Development Of Low Cost Paralleland Counter Flow Heat Exchanger	V Ravi Raj, Dr. P Tharaniya ,K S Sriram, Dr. K Shekar, R Karthik, Mrs. M Dharani, Dr. G M Lionus Leo, Vennapusa Venkata Siva Reddy ,Dr. K P Vasanth Kumar, M Aravindan	202441044179	14.06.2024	https:// search.ipin dia.gov.in/ IPOJournal /Journal/ Patent	Publishe d
5.	Development of Fabrication and Characterization of Saw Dust Polymer Composite for Mechanical Applications	V Ravi Raj P Panneer Selvam K Muthuneelakandan Dr. Banakara Nagaraj Dr. A X Amal Rebin) B Amarendhar Rao N Phani Raja Rao Dr R Prabu Fazil Nalband	202441051506 A	12.7.2024	https:// search.ipin dia.gov.in/ IPOJournal /Journal/ Patent	Publishe d
6.	A Comparative Experimental study on Damping properties of Epoxy Nano composite beams reinforced with carbon nanotubes and graphene nanoplatelets	V. Ravi Raj Dr S.Ganesan Mr.Shiva kumar K Dr.D.Suresh kumar A.S Jagadheeswari Yadluri Ravi Kishore Mr.Karthik S Dr.M L Brabin Nivas Karuppaswamy S Vijayanand J	202441061048	23.08.2024	https:// search.ipin dia.gov.in/ IPOJournal /Journal/ Patent	Publishe d
7.	Dynamic Analysis and Fabrication of Laminated Hybrid composite structures with Silicon carbide fillers	V Ravi Raj Dr. I Ameeth Basha Dr. Dipak Shriramji Bajaj Dr. Vishnu S Aher Dr.M Elango Dr. D Srinivasan Sankaran D Dr. Rittin Abraham Kurien Mr. G M Pradeep Paulmar Pushparaj J,	202441083728	08.11.2024	https:// search.ipin dia.gov.in/ IPOJournal /Journal/ Patent	Publishe d

8.	Sustainable Power generation and water Desalination Using Wind Energy Technologies	V.Ravi Raj G.Srivari Balaji E.Santhosh Chakravarthy R.Shakthivel	202441093378	06.12.2024	https://search.ipindia.gov.in/IPOJournal/Journal/Patent	Published
9.	Development and Evaluation of Solar Powered Sprayer for Agriculture	Mr. S. Rameshkumar Dr. Premendra J. Bansod V.Ravi Raj Masrat Mohi Ud Din Dr.S. Gomathi Prof. Dattatraya Babanrao Nalawade Prof. Praveen Pomu Rathod Prof. Mahendra. G. Gadge Prof. Akshay Ashok Manikjade Dr.P.Selvaraj Dr Vaddi Ramesh Dr. Ravi Mishra	202341074624	29/10/2023	https://search.ipindia.gov.in/IPOJournal/Journal/Patent	Published
10.	Smart Hydraulic pump with variable Displacement or Energy efficient Fluid power(Second position)	Mr. Javed G. Dhalait V. Ravi Raj Raja Rao Vanguri Dr. Sarthak Prasad Sahoo Mr. Sampath Velpula Dr. Libin P Oommen Dr. Sharan Kumar Navneetsinh Shivkumar Yadav Dr. J. Sadhik Basha Dr. M Srinivasnaik	202321087180	19.01.2024	https://search.ipindia.gov.in/IPOJournal/Journal/Patent	Published
11.	Spring based Level Maintenance Mechanism for Sailing Vessels	Dr.S.Sathees Kumar Ms. Sneha Suma Hegde J. Immanuel Durai Raj V.Ravi Raj Dr. Mayank Choubey Prof. Amruta Jagdish Killol Mr. P Vignesh Prakash.M Dr. Umesh Gupta Purushottam Balaso Pawar	202341026498	10.04.2023	https://search.ipindia.gov.in/IPOJournal/Journal/Patent	Published
12.	A New Approach for a Thermal Power Plant by Adoptive control cascaded with Combustion flame images for Optimized Combustor	Dr.J.Chitra Mukesh Sharma Dr.P.Selvaraj Dr. Pasupuleti Subrahmanya Ranjit V.Ravi Raj Dr. Jaidev Kumar G.Sridevi Mohd Asif Shah Dr Jyoti Prasad Patra Amit Marmat Ritesh Nagar Dwarika Prasad Jaiswal	202241072369 A	30.12.2022	https://search.ipindia.gov.in/IPOJournal/Journal/Patent	Published

13.	Implementatio n of Frame work to study the Battery Back up and various advantages of Bi-directional Electric Vehicle charging points	Manoj Kumar Kushwaha Dr E Maheswari Dr.K.Gaayathry Hans John Dcruz S J Sanjay Pankaj Ramtekkar V.Ravi Raj Ritesh Nagar Prof(Dr.) Vivek Singh Kushwah Arulkumar P Dr Jyoti Prasad Patra Ankit Neupane	202211067243 A	09.12.2022	https:// search.ipin dia.gov.in/ IPOJournal /Journal/ Patent	Publishe d
14.	Biometric Finger Print based Voting Machine	Dr.K.Venkataraman, Rajakumar. P, Sakthi Prasanna. J, Mohan Jaya Ganesh.D Bala Subramaniyan. M, Ravi Raj. V, Dr.R.Bhoopathi	202241066493	25.11.2022	https:// search.ipin dia.gov.in/ IPOJournal /Journal/ Patent	Publishe d
15.	Method and Apparatus for controlling Vehicle to avoid accidents	C. Elanchezhian K. Venkataraman V.M. Manickavasagam V. Ravi Raj	202041049409	27.11.2020	https:// search.ipin dia.gov.in/ IPOJournal /Journal/ Patent	Publishe d
16.	Reinforced Particulate Aluminium Metal Matrix Composite and Process for Making the Same	N. Mani R. Bhoopathi V.M. Manickavasagam V. Prabhu K. Vetri Velmurugan V. Ravi Raj G. Ramakrishnan	201941052771	03.01.2020	https:// search.ipin dia.gov.in/ IPOJournal /Journal/ Patent	Publishe d
17.	Design and Fabrication of 360 Degree Air Cooler	V.Ravi Raj Sundaravadivelan U D Santhoshkumar G Sakthivel S	415745-001	03.05.2024	https:// search.ipin dia.gov.in/ IPOJournal /Journal/ Patent	Design Patent Filed
18.	Smart Electric Cycle/12-11	V.Ravi Raj Sairam TS	412565-001	04.04.2024	https:// search.ipin dia.gov.in/ IPOJournal /Journal/ Paten	Design Patent Filed

11.Awards / Recognitions:

S.N o	Name of Award	Awarding Agency	Year
1.	Best Faculty Award	Knowledge Research Academy,Coimbatore	2024
2.	Record event-Max.authors contributing for a book-Book chapter entitled 'Robotics and Automation'	ESN Publications	2021

3.	NPTEL Discipline STAR , NPTEL Believer STAR and NPTEL Enthusiast STAR	NPTEL-IITM	2025
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12 . Membership in professional Societies:

1. Life member in ISTE -The Indian Society for Technical Education.
2. Member in IEEE - and IEEE Societies
3. Member in SAE - Society of Automotive Engineers
4. Member in CII -Confederation of Indian Industry (CII)
5. Member in IWS –Indian Welding Society
6. Member in IIPE – Indian Institution of Production Engineers