




SRIRAM ENGINEERING COLLEGE

Perumalpattu, Veppampattu (RS), Chennai 602024 Tamil Nadu
(A Unit of Sriram Educational Trust)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

DEPARTMENT - MECHANICAL

GENERAL INFORMATION

Name of the Faculty Member	Dr.R.RAVI RAJA MALAR VANNAN	
Present Designation	Professor	
Educational Qualification	B.E,M.E,Ph.D	
Anna University ID Number	260203	
AICTE ID Number	1-11322788598	
Total Experience	36 .5Years (Academic -20.5 ,Industry-16)	
Date of Birth	02-06-1969	
Date of Joining	10-06-2024	
Area of Specialization	Manufacturing Engineering	

PARTICULARS OF EDUCATIONAL QUALIFICATION

Degree / Diploma	Subject	University / Board	Year of Passing
Ph.D.,	Mechanical Engineering	Anna University, Chennai	2017
PG- M.E	CIM	Anna University, Chennai	2008
UG- B.E	Manufacturing Engineering	Anna University, Chennai	2003
Diploma –D.M.E	Mechanical Engineering	State Board of Technical Education-TN	1987

RESEARCH TITLES

Ph.D.,	Studies on Physical Vapour Deposition Coated High Speed Steel Tools
PG.	MRP ISSUES-SOLUTION BY ERP

ACADEMIC & INSTITUTIONAL RESPONSIBILITIES

Training and Placement
IIC Coordinator
Manufacturing Technology Laboratory Incharge

PROFESSIONAL MEMBERSHIP

1-Life time member of Indian Society for Technical Education (ISTE)

2- American Society of Mechanical Engineers (ASME)-Member
3- South Asia Institute of Science and Engineering (SAISE) Member
4- Technical Committee Member in 2 nd international conference on Test, Measurement and Computational Method (TMCM 2017), Beijing, China (May 21-22,2017).

PATENT DETAILS

NIL

BOOK CHAPTER PUBLICATIONS-1

Effect of Physical Vapour Deposition Coatings on High Speed Steel Single Point Cutting Tool. *Advances in Material Sciences and Engineering*, ISBN 978-981-13-8296-3 ISBN 978-981-13-8297-0
(eBook)<https://doi.org/10.1007/978-981-13-8297-0>

JOURNAL PUBLICATIONS-24

1-Investigation on Mechanical, dynamic mechanical analysis, thermal conductivity morphological analysis, and bio-degradability properties of hybrid fiber mats reinforced HLCE resin nano composites. Doi:10.1002/pc.27066, *Polymer Composites*. 2022;43:8850–8859

2-Mechanical, thermal and morphological analysis of hybrid natural and glass fiber-reinforced hybrid resin Nano composites. <https://doi.org/10.1007/s13399-022-02632-9>- *Biomass Conversion and Biorefinery*-Springer

3-Dynamic mechanical analysis of Silk and Glass (S/G/S)/Pineapple and Glass (P/G/P)/Flax and Glass (F/G/F) reinforced Lannea coromandelica blender hybrid nano composites. Year:2021 Volume: 15 Pages: 2484-2496- *Journal of Materials Research and Technology*

4-Investigation on Recent Research of Mechanical Properties of Natural Fiber Reinforced Polymer (NFRP) Materials Year:2021
<https://revmaterialeplastice.ro> <https://doi.org/10.37358/Mat.Plast.1964> Volume-58 Issue-2 Pages: 100-118

5-Effect of Silane-Treated Rice Husk Derived Biosilica on Visco- Elastic, Thermal Conductivity and Hydrophobicity Behavior of Epoxy Biocomposite Coating for Air- Duct Application
<https://doi.org/10.1007/s12633-020-00772-z>. *Silicon*

6-Mechanical and delamination studies on siliconized chitosan and morinda-citrifolia natural fiber-reinforced Epoxy composite in drilling, <https://doi.org/10.1002/pc.25817>, 1-10, 2020. *Polymer Composites*

7-Role of SiC on Mechanical, Tribological and Thermal Expansion Characteristics of B4C/Talc- Reinforced Al-6060 Hybrid Composite, <https://doi.org/10.1007/s12633-019-00263-0>. *Silicon*

8-Effects of surface-modified pineapple fibre-reinforced micro B4C and CTBN rubber particle toughened epoxy hybrid composites in mechanical, impact damage, thermal and water absorption behavior, 6(2019)115343. *Materials Research Express*

9-Optimization of Drilling parameters in Hybrid (Al6061/SiC/B4C/Talc)Composites by grey relational analysis.Vol.41,pp-1-10,2019. Journal of Brazilian Society of Mechanical Sciences and Engineering
10-Mechanical, thermal stability and water uptake behavior of silane- modified chitosan particle and morinda-citrifoliafibre re-inforced epoxy bio-composite,Vol.6,pp- 055513,2019. Materials Research Express
11-Effect of Physical Vapour Deposited Bi-layer (AlCrN + TiAlN) Coating on High Speed Steel Single point cutting tool Vol.32(4) ,pp-373- 376, 2017. Materials and Manufacturing Processes
12-Investigation on HSS single point cutting tool manufactured using physical vapor deposition coating process.Vol.23 ,pp-129-133, 2016. Indian journal of Engineering &Materials sciences
13-Investigation on the corrosion behavior of Physical vapour Deposition coated High Speed steel. Vol 7(8) pp1-5,2015. Advances in Mechanical Engineering
14-Improvement of wear performance of High speed steel tool using Physical vapour Deposition coating processVol. 787 (2015) pp391-395. Applied Mechanics and Materials
15-Performance of PVD coated on high speed steel cutting tool in industrial applications Vols. 984-985 (2014) pp 495-501. Advanced Materials Research
16- Investigation of the Mechanical Properties of Natural Fiber Reinforced Composites of MorindaCitrifolia with Epoxy and Bisphenol Resin. Vol.8, pp.111- 116,2019. International Journal of Recent Technology and Engineering
17- Enhancement of wear properties on High speed steel tool using PVD coating TechniqueVol. 812 (2015) pp 107-111. Applied Mechanics and Materials.
18- Enhancement on PVD coated and uncoated High Speed Steel tool for industrial applications .Vol. 9 No.26 (2014). International Journal of Applied Engineering Research
19- Investigation of PVD Coatings for cutting tool Applications, Volume.8,Issue.4,pp238-243, December 2013. Journal of Manufacturing Engineering
20- Experimental Investigation and Analysis of piston by using composite materials Vol. 04, Article K100, 314-319, November 2013. International journal of Mechanical Engineering applications Research ISSN:2249-6564
21- Mechanical,Thermal conductivity,Biodegradability Property,DMA Analysis and Fractography Analysis of Nanoclay-Cotton Fiber/Hybrid Resin Composites Volume. 20,Issue.22.Page549-556,2022. NeuroQuantology
22- Investigation on Mechanical,DMA Analysis and Fractography Analysis of Hybrid Nanoclay-Bamboo Fiber/Hybrid Resin Composites 22 Issue.01.Page.598-608,2023. YMER
23- Computer integrated capacity assessment of press shop with enhanced overall equipment EffectivenessDOI: https://www.doi.org/10.22271/27078043.2025.v6.i1a.78 : 6(1)74-84. International Journal of Mechanical and ThermalEngineering
24- Automatic dishwasher machine designed for sustainable development and reduces emissions through GHG technologySECP ICNKAI-2K25 Conference Proceeding https://secp.prabodhanamfoundation.org .

PAPERS PRESENTED IN CONFERENCES/SYMPOSIUMS-22

1-Computer integrated capacity assessment of press shop with enhanced overall equipment EffectivenessDOI: https://www.doi.org/10.22271/27078043.2025.v6.i1a.78 : 6(1)74-84. International conference on Nexus of Knowledge in Artificial Intelligence and IOT 2K25 (ICNKAI2K25)at Sriram Engineering College,Perumalpet,Chennai-602024. 11.04.2025 &12.04.2025
2-Automatic dishwasher machine designed for sustainable development and reduces emissions through GHG technology. International conference on Nexus of Knowledge in Artificial Intelligence and IOT 2K25 (ICNKAI2K25)at Sriram Engineering College,Perumalpet,Chennai-602024. . 11.04.2025 &12.04.2025

3- Eco-friendly reinforced composites made from tamarindusindica with Epoxy and bisphenol resin . International Conference on Recent Developments in Mechanical Engineering 2019(ICRDME 2019).S.A.Engineering College Thiruverkadu. Chennai-600077. 21.03.2019 &22.03.2019
4- Thermal Analysis of Natural Fibres Reinforced with Resign . 4 th National Conference on Developments in Automobile and Mechanical Engineering- 2019(DAME-2019). Sri ram Engineering College, Perumalpattu, Chennai-602024. 08.03.2019
5- Effect of Physical Vapour Deposition Coatings on High Speed Steel Single Point Cutting Tool. 4 th International Conference on Mechanical Manufacturing and Plant Engineering(ICMMPPE- 2018),Melaka, Malaysia. 14.11.2018&15.11.2018
6- Investigation on PVD Bilayer coated High Speed Steel Tool. Sri ram Engineering College,Perumalpattu, Chennai-602024. 27.09.2017
7- Design of paper cutting machine using Geneva Mechanism. Sri ram Engineering College, Perumalpattu, Chennai-602024. 15.03.2017
8- Investigation on(TiN+TiAlN) Bi-layer PVD coated High Speed Steel Tool. Sri ram Engineering College, Perumalpattu, Chennai-602024. 15.03.2017
9- Experimental investigation on Bi-layer PVD Coated High Speed Steel Tool. Sri ram Engineering College,Perumalpattu,C hennai-602024. 02.04.2016
10- Improvement on High speed steel single point cutting tool using Physical vapor Deposition coating process. Sai Ram Engineering College,Chennai-600044. 24.2. 2016 &25.2.2016
11- Experimental Investigation and comparative performance of coated and uncoated Twist drill Bit in Dry Machining. Panimalar Institute of Technology, Poonamallee, Chennai-600123. 14.05.2015
12- Enhancement of wear properties on High speed steel tool using PVD Coating Technique. Sri Venkateswara College of Engineering,Pennalur,Sr iperumbudur,Tamil Nadu,India-602117. 02.03.2015 & 03.03.2015
13- Improvement of wear performance High speed steel tool using Physical Vapour Deposition coating process. SSN College of Engineering, Kalavakkam, TamilNadu,India. 08.01.2015&09.01.2015
14- Enhancement on PVD Coated and uncoated High speed steel tool for industrial Applications. Noorul Islam University,Kumaracoil,Kanyakumari District- 629180. 10.04.2014 & 11.04.2014
15- Performance of PVD coated on High speed steel cutting tool in Industrial Applications. Ponjesly college of Engineering, Nagercoil,Kanyakumari District-629003. 07.03.2014 & 08.03.2014
16- Investigation of Coatings for Cutting tool Applications. National Engineering College, Kovil Patti. 07.01.2013 to 09.01.2013
17- Experimental Investigation on Coated (TiN&ALCrN) and uncoated HSS form tool. Sri Venkateswara College of Engineering, Thiruppachur-631203. 23.08.2012 &24.08.2012
18- Experimental Investigation of Tool Wear and Surface Roughness for PVD Coated and uncoated HSS Tool. Sriram Engineering College, Perumalpattu. 25.08.2011&26.08.2011
19- Tool life enhancement by PVD coating. GKM College of Engineering and Technology, Tambaram. 26.03.2011
20- Alternate Energy Sources and Applications. Sriram Engineering College, Perumalpattu. 22.04.2010&23.04.2010
21- Telematics and connected vehicles. Sriram Engineering College, Perumalpattu. 28.10.2009to 30.10.2009
22- Material Requirement Planning issues - solution by ERP. Tagore Engineering College, Vandalur,Chennai. 07.02.2008

CONFERENCES, SEMINARS AND WORKSHOPS ATTENDED-31

1- Seminar on Latest advancement in Additive Manufacturing. Department of Manufacturing Engineering, College of Engineering Guindy, Anna University, Chennai-600025. 17.05.2024
2- Workshop on Artificial Intelligence. Centre for Research Anna University, Chennai-600025. 05.03.2024
3- Workshop on Advanced Laser Applications in Manufacturing and Material Processing. Department of Manufacturing Engineering, College of Engineering Guindy, Anna University, Chennai-600025. 27.01.2024
4- Seminar on Recent Trends in Manufacturing Technology (RTMT 2023). Department of Manufacturing Engineering, College of Engineering Guindy, Anna University, Chennai-600025. 26.05.2023
5- Workshop on Blended Mode-Pedagogy in Technical Education. Centre for Faculty & Professional Development –Department of Printing and Packaging Technology, CEG, Anna University-600025. 16.03.2023 & 17.03.2023
6- Workshop on IMPACT & FUTURE OF METAVERSE IN ENGINEERING AR and VR-MIG Welding and Painting in Virtual lab. Department of Manufacturing Engineering, College of Engineering Guindy, Anna University, Chennai-600025. 04-03-2023
7- Intellectual property Rights & Innovation-2022(IPR-2022). College of Engineering Guindy, Anna University. 28-04-2022
8- How to conduct the Students Induction (SIP) program. AICTE-ONLINE. 20-09-2021
9- Workshop attended in 3D Printing. IITDM, Kanchipuram. 31-01-2020 & 01-02-2020
10- Internet of Things (IOT) and Advanced Technologies in Manufacturing. Panimalar Engineering College, Chennai. 11-11-2019 to 23-11-2019
11- Innovation Voucher Program –Discovery workshop. Saveetha Engineering College, Chennai. 23-10-2019
12- Workshop on Assessment Curriculum Syllabus Development. Saveetha Engineering College, Chennai-602105. 24-11-2018 & 25-11-2018
13- Seminar on Research and Innovations in Nanoscience and Nanotechnology. Saveetha Engineering College, Chennai-602105. 21-04-2018
14- Advanced manufacturing processes applied to combat vehicle components. S.A. Engineering College, Thiruverkadu 23-6-2017
15- Emerging Technologies in Engineering. Valliammai Engineering College, SRM Nagar, Kattankulathur-603203, Tamil Nadu, India. 01-04-2017
16- Research Methodology. College of Engineering Guindy, Anna University. 11-12-2014
17- Dimensions of Research Adhi college of Engineering and Technology, Sankarapuram, Kanchipuram. 13-12-2013 and 14-12-2013
18- Research Methodology. Karpaga Vinayaga College of Engineering & Technology. 03-04-2013
19- Recent trends in Engineering Tribology and surface Characterization. Sri Venkateswara College of Engineering, Sriperumbudur-602105. 29-09-2012
20- Advances in Manufacturing”(AIM-2011) Velammal Engineering College, Chennai-600066. 23-07-2011
21- Nano coatings and Applications”(NANOCOAT 2011). College of Engineering Guindy campus, Anna University, Chennai- 25. 30-05-2011
22- Innovative Techniques in Road safety Management. Sri Ram Engineering College, Perumalpattu, Chennai-602024. 28-07-2010 & 29-07-2010

23- Advanced Manufacturing Technologies. St Peter's College of Engineering and Technology, Chennai. 16-08-2010 to 18-08-2010
24- Composite materials in Research & Industrial Applications. Sri ram Engineering College, Perumalpattu, Chennai-602024. 28-04-2010 & 29-04-2010
25- Nanomaterials. Sri Venkateswara College of Engineering, Pennalur, Sriperumbudur-602105. 21-08-2011.
26- Quantitative Research Techniques for Engineers and Researchers. Sri ram Engineering College, Perumalpattu, Chennai-602024. 29-10-2010
27- Synthesis and Characterization of Smart materials. Sri ram Engineering College, Perumalpattu, Chennai-602024. 25-08-2010
28- Advances in metrology and measurements. College of Engineering Guindy campus, Anna University, Chennai-25. 22-11-2010 & 23-11-2010
29- Emerging Trends in Supply Chain Management. Sri Venkateswara College of Engineering, Pennalur, Sriperumbudur. 18-09-2009 & 19-09-2009
30- Intellectual Property Rights. Jaya Engineering College, Thiruninravur-602024. 16-09-2006
31- Global Trends in Manufacturing Technology. College of Engineering Guindy, Anna University, Chennai-600025. 25-07-2003

NPTL, SWAYAM AND OTHER CERTIFICATIONS:

1- "Certificate of Excellence" for the completion of FDP-101X and FDP- 201X from IIT Bombay
2- "Certificate of Honour" on Teacher's day celebration-2011 from National foundation for Entrepreneurship Development, Chennai-16
3- "Best Teacher" award from Lions Club of Thiruvallur District -2025

SUPERVISERSHIP (IN NUMBERS)

Ph.D.,	02 Completed
PG.	07
UG.	16