




SRIRAM ENGINEERING COLLEGE SCHOOL OF MECHANICAL ENGINEERING

Name & Photo :		Dr.R.Ravi Raja Malar Vannan 
Designation:		Professor
Qualification :	UG(Specialization)	B.E (Manufacturing Engineering)
	PG(Specialization)	M.E.(Computer Integrated Manufacturing)
	Ph.D	Studies on Physical Vapour Deposition Coated High Speed Steel Tool.
Area of Specialization :		Manufacturing, Mechanical, Materials, Coatings and Composites
Experience :	Teaching	19.5 Years.
	Industry	16 Years
Paper Presentation in Seminar/Conference /Workshop (Specify only numbers)	National/International	13/7
Participation in (Specify only numbers)	Seminar/Conference /Workshop	31
	SDPs/FDPs	12
	Training Programs	3

Subjects Handled	<ol style="list-style-type: none"> 1. Engineering Graphics 2. Finite Element Analysis 3. Manufacturing Technology I & II 4. Engineering Materials and Metallurgy 5. Principles of Management 6. Engineering Metrology and measurements 7. Robotics 8. Composite materials 9. Nanotechnology 10. Applied materials engineering 11. Lean Six Sigma 12. Unconventional Machining Processes 13. Production Planning and Control 14. Value Engineering and Reengineering 15. Entrepreneurship Development
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Experience Details: (Teaching & Industrial)

<i>Name of the Institution</i>	<i>Designation</i>	<i>Total No. of Yrs. / Mons.</i>
Sriram Engineering College, Perumalpattu, Thiruvallur.	Professor	Since 10/06/2024
College of Engineering Guindy, Anna University, Chennai-600025	Teaching Fellow	3.5 Years
Saveetha Engineering College, Thandalam, Chennai-602105	Associate Professor	2.5 Years
Sriram Engineering College	Assistant Professor	8.5 Years
Sakthi Engineering College	Lecturer	1 Year
Jaya Polytechnic College	HOD/Mechanical Engineering	4 Years
White House Process Pvt. Ltd., Chennai	Deputy Engineer Plant	12 Years

Krishna Industrial Chemicals Pvt. Ltd	Shift in-charge	2 Years
Quality Metal Industries	Q.C Inspector	1 Year
Indian Drugs and Pharmaceuticals Limited, Nandambakkam, Chennai-600089.	Trainee	1 Year

Research Supervisor

1-Anna university Recognized supervisor for guiding Ph.D and M.S (By Research) Scholars under the faculty of Mechanical Engineering (Ref.No:2920082)

2-Ph.D Awarded –Two Scholars

Journal and eBook Publications-23

<i>S.No.</i>	<i>Title, Vol., No., pp., year</i>	<i>National / International</i>	<i>Journal</i>
1	Investigation on Mechanical,DMA Analysis and Fractography Analysis of Hybrid Nanoclay-Bamboo Fiber/Hybrid Resin Composites 22 Issue.01.Page.598-608,2023	International	YMER
2	Mechanical,Thermal conductivity,Biodegradability Property,DMA Analysis and Fractography Analysis of Nanoclay-Cotton Fiber/Hybrid Resin Composites Volume. 20,Issue.22.Page549-556,2022	International	NeuroQuantology
3	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 PolymerComposites. 2022;43:8850–8859	International	Polymer composites-Wiley Publications(Anna University - Annexure- I)
4	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 05 April 2022	International	Biomass Conversion and Biorefinery Springer
5	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	International	Journal of Materials Research and Technology (Anna University -

	composites. Year:2021 Volume: 15 Pages: 2484-2496		Annexure- I)
6	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-58Issue-2Pages: 100-118	International	Materiale Plastice(Anna University - Annexure- I)
7	Effect of Silane-Treated Rice Husk Derived Biosilica on Visco-Elastic, Thermal Conductivity and Hydrophobicity Behavior of EpoxyBiocomposite Coating for Air- Duct Application https://doi.org/10.1007/s12633-020-00772-z	International	Silicon(Anna University - Annexure- I)
8	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	International	Polymer Composites (Anna University - Annexure- I)
9	Role of SiC on Mechanical, Tribological and Thermal Expansion Characteristics of B ₄ C/Talc-Reinforced Al-6060 Hybrid Composite, https://doi.org/10.1007/s12633-019-00263-0	International	Silicon(Anna University - Annexure- I)
10	Effects of surface-modified pineapple fibre-reinforced micro B ₄ C and CTBN rubber particle toughened epoxy hybrid composites in mechanical, impact damage, thermal and water absorption behavior, 6(2019)115343	International	Materials Research Express (Anna University - Annexure- I)

11	Optimization of Drilling parameters in Hybrid (Al6061/SiC/B4C/Talc)Composites by grey relational analysis. Vol.41,pp-1-10,2019	International	Journal of Brazilian Society of Mechanical Sciences and Engineering(Anna University - Annexure- I)
12	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	International	Materials Research Express(Anna University - Annexure- I)
13	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	International	Materials and Manufacturing Processes(Anna University - Annexure- I)
14	Investigation on HSS single point cutting tool manufactured using physical vapor deposition coating process. Vol.23 ,pp-129-133, 2016	International	Indian journal of Engineering &Materials sciences(Anna University - Annexure- I)
15	Investigation on the corrosion behavior of Physical vapour Deposition coated High Speed steel. Vol 7(8) pp1-5,2015	International	Advances in Mechanical Engineering(Anna University - Annexure- I)
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	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	International	Applied Mechanics and Materials
18	Improvement of wear performance of High speed steel tool using Physical vapour Deposition coating processVol. 787 (2015) pp 391-395	International	Applied Mechanics and Materials

19	Enhancement on PVD coated and uncoated High Speed Steel tool for industrial applications .Vol. 9 No.26 (2014)	International	International Journal of Applied Engineering Research
20	Performance of PVD coated on high speed steel cutting tool in industrial applications Vols. 984-985 (2014) pp 495-501	International	Advanced Materials Research
21	Investigation of PVD Coatings for cutting tool Applications, Volume.8,Issue.4,pp238-243, December 2013	International	Journal of Manufacturing Engineering
22	Experimental Investigation and Analysis of piston by using composite materials Vol. 04, Article K100, 314-319, November 2013	International	International journal of Mechanical Engineering applications Research ISSN:2249-6564
23	Effect of Physical Vapour Deposition Coatings on High Speed Steel Single Point Cutting Tool. <i>Advances in Material Sciences and Engineering</i> , ISBN 978-981-13-8296-3 ISBN 978-981-13-8297-0 (eBook) https://doi.org/10.1007/978-981-13-8297-0	International	Lecture Notes in Mechanical Engineering

Paper Presentation in Conferences/FDP/Workshop/Seminar/Guest Lecture: 20

<i>S.No.</i>	<i>Date</i>	<i>Venue</i>	<i>Event</i>	<i>Title</i>
1	21.03.2019 &22.03.2019	International Conference on Recent Developments in Mechanical Engineering 2019(ICRDME 2019).S.A.Engineering College Thiruverkadu, Chennai-600077.	International Conference	Eco-friendly reinforced composites made from tamarindusindica with Epoxy and bisphenol resin.

2	08.03.2019	4 th National Conference on Developments in Automobile and Mechanical Engineering-2019(DAME-2019). Sri ram Engineering College, Perumalpattu, Chennai-602024	National Conference	Thermal Analysis of Natural Fibres Reinforced with Resin
3	14.11.2018 & 15.11.2018	4 th International Conference on Mechanical Manufacturing and Plant Engineering(ICMMPE-2018),Melaka, Malaysia	International Conference	Effect of Physical Vapour Deposition Coatings on High Speed Steel Single Point Cutting Tool
4	27.09.2017	Sri ram Engineering College,Perumalpattu, Chennai-602024	National Conference	Investigation on PVD Bilayer coated High Speed Steel Tool.
5	15.03.2017	Sri ram Engineering College, Perumalpattu, Chennai-602024	National Conference	Design of paper cutting machine using Geneva Mechanism
6	15.03.2017	Sri ram Engineering College, Perumalpattu, Chennai-602024	National Conference	Investigation on(TiN+TiAlN) Bi-layer PVD coated High Speed Steel Tool
7	02.04.2016	Sri ram Engineering College,Perumalpattu,Chennai-602024	National Conference	Experimental investigation on Bi-layer PVD Coated High Speed Steel Tool
8	24.2. 2016 & 25.2.2016	Sai Ram Engineering College, Chennai-44	International Conference	Improvement on High speed steel single point cutting tool using Physical vapor Deposition coating process
9	14.05.2015	Panimalar Institute of Technology, Poonamallee, Chennai-600123	National conference	Experimental Investigation and comparative performance of coated and uncoated Twist drill Bit in Dry Machining
10	02.03.2015 & 03.03.2015	Sri Venkateswara College of Engineering,Pennalur,Sriperumbudur,Tamil Nadu,India-602117	National conference	Enhancement of wear properties on High speed steel tool using PVD Coating Technique
11	08.01.2015 & 09.01.2015	SSN College of Engineering, Kalavakkam, TamilNadu, India	International conference	Improvement of wear performance High speed steel tool using Physical Vapour Deposition coating process
12	10.04.2014 & 11.04.2014	Noorul Islam University,Kumaracoil, Kanyakumari District-629180	International conference	Enhancement on PVD Coated and uncoated High speed steel tool for industrial Applications

13	07.03.2014 & 08.03.2014	Ponjesly college of Engineering, Nagercoil, Kanyakumari District-629003	International conference	Performance of PVD coated on High speed steel cutting tool in Industrial Applications'
14	07.01.2013 to 09.01.2013	National Engineering College, Kovil Patti	International Conference	Investigation of Coatings for Cutting tool Applications
15	23.08.2012 &24.08.2012	Sri Venkateswara College of Engineering, Thiruppachur-631203	National conference	Experimental Investigation on Coated (TiN&ALCrN) and uncoated HSS form tool
16	25.08.2011& 26.08.2011	Sriram Engineering College, Perumalpattu.	National conference	Experimental Investigation of Tool Wear and Surface Roughness for PVD Coated and uncoated HSS Tool
17	26.03.2011	GKM College of Engineering and Technology, Tambaram	National conference	Tool life enhancement by PVD coating
18	22.04.2010& 23.04.2010	Sriram Engineering College, Perumalpattu	National conference	Alternate Energy Sources and Applications
19	28.10.2009to 30.10.2009	Sriram Engineering College, Perumalpattu	National conference	Telematics and connected vehicles
20	07.02.2008	Tagore Engineering College, Vandalur, Chennai	National conference	Material Requirement Planning issues - solution by ERP

Workshops/ Seminars Participated-31

SI No	Title	National / International	Date	Venue
1	Seminar on Latest advancement in Additive Manufacturing.	National	17.05.2024	Department of Manufacturing Engineering, College of Engineering Guindy, Anna University, Chennai-600025
2	Workshop on Artificial Intelligence	National	05.03.2024	Centre for Research Anna University, Chennai-600025
3	Workshop on Advanced Laser Applications in Manufacturing and Material Processing	National	27.01.2024	Department of Manufacturing Engineering, College of Engineering Guindy, Anna University, Chennai-600025

4	Seminar on Recent Trends in Manufacturing Technology (RTMT 2023)	National	26.05.2023	Department of Manufacturing Engineering, College of Engineering Guindy, Anna University. Chennai-600025
5	Workshop on Blended Mode-Pedagogy in Technical Education	National	16.03.2023 & 17.03.2023	Centre for Faculty & Professional Development – Department of Printing and Packaging Technology, CEG, Anna University-600025
6	Workshop on IMPACT & FUTURE OF METAVERSE IN ENGINEERING AR and VR-MIG Welding and Painting in Virtual lab	National	04-03-2023	Department of Manufacturing Engineering, College of Engineering Guindy, Anna University. Chennai-600025
7	Intellectual property Rights & Innovation-2022(IPR-2022)	National	28-04-2022	College of Engineering Guindy, Anna University
8	How to conduct the Students Induction (SIP) program.	National	20-09-2021	AICTE-ONLINE
9	Work shop attended in 3D Printing	National	31-01-2020 & 01-02-2020	IITDM, Kanchipuram
10	Internet of Things (IOT) and Advanced Technologies in Manufacturing	National	11-11-2019 to 23-11-2019	Panimalar Engineering College, Chennai
11	Innovation Voucher Program – Discovery workshop	National	23-10-2019	Saveetha Engineering College, Chennai
12	Workshop on Assessment Curriculum Syllabus Development	National	24-11-2018 & 25-11-2018	Saveetha Engineering College, Chennai-602105
13	Seminar on Research and Innovations in Nanoscience and Nanotechnology	National	21-04-2018	Saveetha Engineering College, Chennai-602105
14	Advanced manufacturing processes applied to combat vehicle components	National	23-6-2017	S.A. Engineering College, Thiruverkadu

15	Emerging Technologies in Engineering	National	01-04-2017	Valliammai Engineering College, SRM Nagar, Kattankulathur-603203, Tamil Nadu, India
16	Research Methodology	International	11-12-2014	College of Engineering Guindy, Anna university
17	Dimensions of Research	National	13-12-2013 and 14-12-2013	Adhi college of Engineering and Technology, Sankarapuram, Kanchipuram
18	Research Methodology	International	03-04-2013	Karpaga Vinayaga College of Engineering & Technology
19	Recent trends in Engineering Tribology and surface Characterization	National	29-09-2012	Sri venkateswara college of Engineering, Sriperumbudur-602105
20	Advances in Manufacturing” (AIM-2011)	National	23-07-2011	Velammal Engineering College, Chennai-600066
21	Nano coatings and Applications” (NANOCOAT 2011)	National	30-05-2011	College of Engineering Guindy campus, Anna University, Chennai-25
22	Innovative Techniques in Road safety Management	National	28-07-2010 & 29-07-2010	Sri ram Engineering College, Perumalpattu, Chennai-602024
23	Advanced Manufacturing Technologies	National	16-08-2010 to 18-08-2010	St Peter’s College of Engineering and Technology, Chennai

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

International Travel

Visited Malaysia to present the Research paper in International conference (ICMMPE-2018) in November 2018.

Awards received

1-“**Certificate of Excellence** “for the completion of FDP-101X and FDP- 201X from IIT Bombay

2-“**Performance certificates**” for 100% Results produced from **Saveetha Engineering College**, Thandalam, Chennai-602105

3-“**Performance certificates**” for 100% Results produced from **Sri ram Engineering College**, Perumalpattu, Chennai-602024

4-“**Certificate of Honour**” on Teacher’s day celebration-2011 from **National foundation for Entrepreneurship Development**, Chennai-16

5-“**Certificate of Merit**” from High and Higher secondary school Head master’s Association, Kanyakumari District on 26-10-1984 for centum marks in Mathematics.

Membership

1-Life time member of Indian society for Technical Education (ISTE),(LM 68256), New Delhi- 110016

2-American Society of Mechanical Engineers (ASME).

3-South Asia Institute of Science and Engineering (SAISE) Member

4-Technical Committee Member in 2nd international conference on Test, Me Computational Method (TMCM 2017), Beijing, China (May 21-22,2017)

Reviewer in Journals

1-Taylor and Francis

2-Tribology in Industry

3-Advances in Mechanical Engineering

Program Chair

International conference on Mechanical Engineering Design (ICMECHD-2019)
at SSN College of Engineering, Chennai, on 25,26-04-2019

Professional Training Undergone

- 1-Certificate of Competency in BOILER ATTENDANT from Government of Tamil Nadu Inspectorate of Steam Boilers, Chennai, India.
- 2-Professional Short Term Certificate course in CNC Machines and Programming, from Anna University, Chennai, India.
- 3-AUTOCAD RELEASE 2000 from Advanced Training Institute, Guindy, Chennai, India.
- 4-3D SOLID MODELING USING MDT – V5 from Advanced Training Institute, Chennai, India.
- 5-SAP MM MODULE from Seventh Sense Networks, Chennai, India