


SRI SAI RAM ENGINEERING COLLEGE
DEPARTMENT OF MECHANICAL ENGINEERING

Name: K.VETRI VELMURUGAN	
Designation:	Assistant Professor
Qualification:	M.TECH (Ph. D)
Area of Specialization:	CAD/CAM
Experience:	Teaching- 9 Years 6 Months
	Industry -2 Years 3 Months
Number of Workshops/ Conferences/ FDP Attended:	WORKSHOP- 7 CONFERENCES - 2 FDP - 04
Publication:	Journal: National:10 International: 01
	Conference: National: 10 International: NIL
General:	NIL
Staff Achievement	100 % RESULTS PRODUCED IN FOLLOWING SUBJECT MANUFACTURING TECHNOLOGY-1 ACT as SAE BAJA CO- COORDINATOR- ACHIEVED TWO AWARDS DURING 2017-2018

ACADEMIC BACKGROUND

Course	Institution	Year of Passing	Board/University	Percentage of Marks (%)
Ph. D (Pursuing)	Anna University (Part Time)	-	Anna University	-
M.Tech (CAD/CAM)	VIT University, Vellore	2009	VIT University	7.9
B.E (Mechanical Engineering)	Pallavan College of Engineering, Kanchipuram	2005	Anna University	72.00
Higher Secondary	Danish Mission Higher Secondary School, Tiruvannamalai	2000	State board	69.50
S.S.L.C	Gandhi Nagar Matriculation Higher Secondary School, Tiruvannamalai	1998	Matriculation	75.45

PROFESSIONAL EXPERIENCE:

Sl. No	College/Organization	Designation	Period From To	Total period	Nature of work
1.	Sri Sairam Engineering, Chennai.	Assistant Professor	25.06.12 to Till date	9yrs & 6months	Teaching
2.	Light Alloy Products Limited	Engineer- Design	15.06.09 to 27.04.10	10 Months	Design
3.	Genuine Technologies.	Senior Engineer- Design	03.01.11 to 20.06.12	1yrs & 5 months	Design

International Conferences Attended: **02**

Papers published in the international conferences: **02**

Short Term Course (Refresher courses) Attended: **NIL**

Faculty/Staff Development /Training Program (Orientation programmes) Attended: **03**

Resource person In FDP: **NIL**

Workshops Attended: **7**

Events organized: **NIL**

Funded Projects: **NIL**

List of publications in international / National journals:

International Journal:

1. Published a Paper Titled “Comparative Analysis of AHP and ANP Model for Lean Production System Justification’, in the *Applied Mechanics and Materials Vol. 591 (2014) pp 197-201*© (2014) *Trans Tech Publications, Switzerland* *doi:10.4028/www.scientific.net/AMM.591.197.*

National Journal:

1. Published a Paper Titled “Experimental Investigation and Optimization of Machining Parameters using Grey-Relational Analysis Approach and Fuzzy Based Taguchi Loss Function Method’, in the *Indian Journal of Science and Technology, Vol 9(44), DOI: 10.17485/ijst/2016/v9i44/103313, November 2016.* ISSN (Print) : 0974-6846 ISSN (Online) : 0974-5645
2. Published a Paper Titled “An Investigation of the Parametric Effects of Cutting Parameters on Quality Characteristics during the Dry Turning of Inconel 718 Alloy’, in the *Indian Journal of Science and Technology, Vol 9(44), DOI: 10.17485/ijst/2016/v9i44/103314, November 2016.* ISSN (Print) : 0974-6846 ISSN (Online) : 0974-5645
3. Published a Paper Titled “**Design Optimization of an Epoxy Carbon Prepreg Drive Shaft and Design of a Hybrid Aluminium 6061-T6 Alloy/Epoxy Carbon Prepreg Drive Shaft,**” SAE Technical Paper 2018-28-0014, 2018, doi:10.4271/2018-28-0014.

4. Published a Paper Titled **“Empirical and Artificial Neural Network Modeling of Laser Assisted Hybrid Machining Parameters of Inconel 718 Alloy,”** SAE Technical Paper 2018-28-0023, 2018, doi:10.4271/2018-28-0023.
5. Published a Paper Titled **“Parametric Study, the Process Benefits, Optimization and Chip Morphology Study of Machining Parameter on Turning of Inconel 718 Using CVD Coated Tool and Nd: YAG Laser,”** SAE Technical Paper 2018-28-0029, 2018, doi:10.4271/2018-28-0029.
6. Published a Paper Titled **“A Comparative Study on Machinability Characteristics in Dry Machining of Inconel X-750 Alloy Using Coated Carbide Inserts,”** SAE Technical Paper 2018-28-0031, 2018, doi:10.4271/2018-28-0031.
7. Published a Paper Titled **“A Study on the Turning Characteristics and Optimization of MOS₂p and SiCp-Reinforced Al-Si₁₀Mg Metal Matrix Composites,”** SAE Technical Paper 2018-28-0043, 2018, doi:10.4271/2018-28-0043.
8. Published a Paper Titled **“Experimental Study on Tool Wear and Cutting Temperature during Machining of Nimonic C-263 and Waspaloy Based on Taguchi Method and Response Surface Methodology,”** SAE Technical Paper 2019-28-0144, 2019, doi:10.4271/2019-28-0144
9. Published a Paper Titled **“Experimental Investigation on Turning Characteristics of TiC/MoS₂ Nanoparticles Reinforced Al7075 Using TiN Coated Cutting Tool,”** SAE Technical Paper 2019-28-0165, 2019, doi:10.4271/2019-28-0165.
10. Published a Paper Titled **“Fabrication and Machinability Study of Al2219 Metal Matrix Composites Reinforced with SiN/MoS₂ Nanoparticles,”** SAE Technical Paper 2019-28-0170, 2019, doi:10.4271/2019-28-0170.

Conferences:

National

1. Published a Paper Titled “Experimental Investigation and Optimization of Machining Parameters using Grey-Relational Analysis Approach and Fuzzy Based Taguchi Loss Function Method’, in the *Indian Journal of Science and Technology*, Vol 9(44), DOI: 10.17485/ijst/2016/v9i44/103313, November 2016. ISSN (Print) : 0974-6846 ISSN (Online) : 0974-5645
2. Published a Paper Titled “An Investigation of the Parametric Effects of Cutting Parameters on Quality Characteristics during the Dry Turning of Inconel 718 Alloy’, in the *Indian Journal of Science and Technology*, Vol 9(44), DOI: 10.17485/ijst/2016/v9i44/103314, November 2016. ISSN (Print) : 0974-6846 ISSN (Online) : 0974-5645
3. Published a Paper Titled “**Design Optimization of an Epoxy Carbon Prepreg Drive Shaft and Design of a Hybrid Aluminium 6061-T6 Alloy/Epoxy Carbon Prepreg Drive Shaft,**” SAE Technical Paper 2018-28-0014, 2018, doi:10.4271/2018-28-0014.
4. Published a Paper Titled “**Empirical and Artificial Neural Network Modeling of Laser Assisted Hybrid Machining Parameters of Inconel 718 Alloy,**” SAE Technical Paper 2018-28-0023, 2018, doi:10.4271/2018-28-0023.
5. Published a Paper Titled “**Parametric Study, the Process Benefits, Optimization and Chip Morphology Study of Machining Parameter on Turning of Inconel 718 Using CVD Coated Tool and Nd: YAG Laser,**” SAE Technical Paper 2018-28-0029, 2018, doi:10.4271/2018-28-0029.
6. Published a Paper Titled “**A Comparative Study on Machinability Characteristics in Dry Machining of Inconel X-750 Alloy Using Coated Carbide Inserts,**” SAE Technical Paper 2018-28-0031, 2018, doi:10.4271/2018-28-0031.

7. Published a Paper Titled **“A Study on the Turning Characteristics and Optimization of MOS₂p and SiCp-Reinforced Al-Si10Mg Metal Matrix Composites,”** SAE Technical Paper 2018-28-0043, 2018, doi:10.4271/2018-28-0043.
8. Published a Paper Titled **“Experimental Study on Tool Wear and Cutting Temperature during Machining of Nimonic C-263 and Waspaloy Based on Taguchi Method and Response Surface Methodology,”** SAE Technical Paper 2019-28-0144, 2019, doi:10.4271/2019-28-0144
9. Published a Paper Titled **“Experimental Investigation on Turning Characteristics of TiC/MoS₂ Nanoparticles Reinforced Al7075 Using TiN Coated Cutting Tool,”** SAE Technical Paper 2019-28-0165, 2019, doi:10.4271/2019-28-0165.
10. Published a Paper Titled **“Fabrication and Machinability Study of Al2219 Metal Matrix Composites Reinforced with SiN/MoS₂ Nanoparticles,”** SAE Technical Paper 2019-28-0170, 2019, doi:10.4271/2019-28-0170.

Workshop / FDP attended / Training Programme:

1. Attended a Six Days FDP on “Engineering and Management Teaching Pedagogy- an Industry Perspective from 11/05/2020 to 16/05/2020 organized by Department of Management Studies and Mechanical Engineering - Sri Sai Ram Institute of Technology , Chennai -44
2. Two Weeks Faculty Development Programme on "MANAGING ONLINE CLASSES and CO-CREATING MOOCS" from April 20 - May 06, 2020. Ramanujan College, University of Delhi.
3. Attended a One Days workshop on “AWARENESS ON INTELLECTUAL PROPERTY RIGHTS”at College of Engineering, anna University, Chennai held on 26th April 2019
4. Attended a Six Days FDP on “Robotics” at Sri Sairam Engineering College, Chennai held on 13th May 2019 to 18th May 2019”.
5. Attended a Six Days FDTP on “Working Culture for Professionals” at Sri Sairam Engineering College, Chennai held on 11th Nov 2019 to 16th Nov 2019”.

6. Attended a Five Days FDP on “AutoDesk Inventor” at Sri Sairam Institute of Technology, Chennai held on 4th June 2018 to 8th June 2018”.
7. Attended a Three Days workshop on “Creo Parametric 3D Modelling Software and its Applications” at Sri Sairam Engineering College, Chennai held on 13th June to 15th June 2018
8. Attended a One Days workshop on “IPR ARENA – PATENT FILING PROCEDURE” at Sri Sairam Engineering College, Chennai held on 21st June 2018
9. Attended a workshop on “Recent trends in Optimization Techniques – RTOT 2017” at Velammal Engineering College, Chennai held on 21st April 2017.
10. Attended a workshop on “Value Engineering using ANSYS” in Sri Sai Ram Engineering College held on 19th August 2016.
11. Attended a workshop on “Advances in Design of Experiments (DOE) “in VIT University, Vellore held on 21st October 2016.
12. Attended a workshop on “Development, Manufacturing and Analysis of Advanced Composites” in SRM University held on 19th December 2015.
13. Attended a workshop on “Rapid Prototyping Technology and its applications to industries in engineering and healthcare” in VIT Chennai held on 22nd March 2014.
14. Attended one day Workshop on “Role of Lean Manufacturing on Organization Competitiveness “, Organized by Sri Sai Ram Engineering college Chennai on 28th August 2014.
15. Attended a workshop on “Finite Element Analysis Tools and its Applications” Organized by Sri Sai Ram Engineering college Chennai on 19th July 2012.
16. Attended Faculty Development Program on “Automobile Engineering”, Organized by Sri Sai Ram Engineering College, Chennai from 29th November to 5th December 2017.
17. Attended Faculty Development Program on “Computer Aided Design and Usage of Software”, Organized by Sri Sai Ram Engineering College, Chennai from 4th August to 6th August 2016.
18. Attended Faculty Development Program on “Processing and Characterization of Composite Materials including Natural Fiber Re-inforced Composites”, Organized by Sri Sai Ram Institute of Technology, Chennai from 18th March to 31th March 2015.

- 19.** Attended Faculty Development Program on “Advancement in Materials, manufacturing Processes and Management Systems”, Organized by Sri Sai Ram Engineering College, Chennai from 4th November to 16th November 2013.
- 20.** Attended Training Program on “Automotive Technology”, in Sri Sai Ram Engineering College, Chennai Conducted on 12th and 13th September 2017.
- 21.** Attended a two day Workshop on “Industry-Institution Interaction Event on Environment Management in Industrial Sectors-Status and Needs”, Organized by Sri Sai Ram Engineering College, Chennai on 24th & 25th July 2014.
- 22.** Attended Quality Management and Audit Training, Organized by Sri Sai Ram Engineering College, Chennai Conducted on 22nd and 23th February 2013.