


Name: Dr K VELAVAN				
Designation:	Associate Professor			
Qualification:	M.E, Ph.D			
Area of specialization:	Manufacturing			
Experience:	Industrial Experience		Teaching Experience	
Number of workshops / FDP attended:	5.1 Yrs		24.8 yrs	
Publications:	Conference		Journal	
Books / Book Chapters	0			
Patents:	National		International	
Professional Body Membership	ISTE, SAE, IEEE, IWS			
			04	
	National	International	National	International
	02	07		12

Staff Achievements							
Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks/ Grades obtained	Class obtained
UG	B. E	Mechanical	1990	Adhiparasakthi Engineering College	Madras University	59	II
PG	M.E	Manufacturing	2007	Madras Institute of Technology	Anna University	7.7CG PA	I
Mechanical Engineering	Ph.D.	Composites	2022	Sathyabama University	Sathyabama University	-	--
			<ul style="list-style-type: none"> Achieved 100% Results in the following subjects Engineering Graphics, Computer Integrated Manufacturing, Production Planning and Control, Unconventional Machining Process, Power Plant Engineering. Received Best Mentor Award 				

Educational Qualifications:

Academic Experience:

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
Adhiparasakthi Engineering College Melmaruvathur	Assistant Professor	01.11.2008	31.05.2012	10	10	23
	Senior Lecturer	01.01.2008	31.10.2008			
	Lecturer	09.07.2001	31.12.2007			
Sri Sairam Institute of Technology	Associate Professor	14.06.2012	28.07.2025	13	01	14
Sri Sairam Engineering College	Associate Professor	29.07.2025	TILL DATE	--	08	--
				24	08	06

Industrial Experience:

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
Pondicherry Industrial Promotion Development and Investment Corporation Ltd. Pondicherry	Graduate Engineering Apprentice	31.05.93	30.05.94	1	00	00
Delta Engineering Industries Chennai	Supervisor	01.06.94	22.09.95	1	03	00
Madras Port Trust Chennai	Practical Training	26.09.95	25.09.96	1	00	00
FLEXIGLAS Chennai 34	Project Engineer	01.10.96	14.08.1998	1	10	00
				05	01	00

Workshops/Seminars attended:43

S.No.	Name of the Workshop	Organizers	Mode of Program	Month & Year
1	Cloud Computing for everyone (Webinar)	Sri venkateswara College of Engineering	Online	July2020
2	Linear Regression Model in Machine Learning (Webinar)	Sri Eshwar College of Engineering	Online	July2020
3	New Approaches in Composite Deposition (Webinar)	SCAD College of Engineering and Technology	Online	July2020
4	What's Instore and how COVID19 can alter the mechanical engineering workforce (Webinar)	Sathyabama Institute of Science and Technology	Online	June2020
5	How to publish research articles in reputed journals (Webinar)	Sathyabama Institute of Science and Technology	Online	June2020
6	Hand Sanitation Awareness Quiz (Webinar)	Dharmamurthi Rao Bahadur Calava Cunnan Cheety's Hindu college	Online	June2020
7	Shape Memory alloys for micro Mechatronics and soft robotic systems (Webinar)	Sathyabama Institute of Science and Technology	Online	June2020
8	Human values of Professional Ethic Part-II (Webinar)	JSPM's Rajarshi Sahu College of Engineering	Online	June2020
9	Solar Thermal Energy Utilization Technologies for Sustainable development (Webinar)	Sathyabama Institute of Science and Technology	Online	June2020
10	Quiz on Manufacturing Technology (Webinar)	Sri Sairam Engineering College	Online	June2020
11	Quality & Six Sigma (Webinar)	Sathyabama Institute of Science and Technology	Online	June2020

12	Basics of IPR and Patents& Setting-up an innovative business (Webinar)	Sathyabama Institute of Science and Technology	Online	May2020
13	Research Thrust areas in Composites (Webinar)	Arasu Engineering College	Online	May2020
14	3D Printing Applications in fighting with COVID 19 (Webinar)	Sri Sairam Institute of Technology	Online	May2020
15	Transformation expected in Mechanical Industries Post Covid 19 (Webinar)	Sathyabama Institute of Science and Technology	Online	May2020
16	Production and Machine Tools Quiz 2K20 (Webinar)	Holy Mary Institute of Technology	Online	May2020
17	Applications of Codes and Standards (Webinar)	A.V.C. College of Engineering	Online	May2020
18	Advanced manufacturing Practices- Robot Automation & industry-4.0 (Webinar)	Sri Sairam Institute of Technology	Online	May2020
19	Process simulation, optimization and additive manufacturing for reengineering of medical devices (Webinar)	NAFEMS India	Online	May2020
20	Engineering simulations and additive manufacturing (Webinar)	NAFEMS India	Online	May2020
21	COVID 19 Awareness quiz (Webinar)	ST. JOSEPH Arts & Science College	Online	May2020
22	Research Methodology (Webinar)	AgurchandManmull Jain college	Online	May2020
23	COVID 19 Awareness quiz (Webinar)	Jamal Mohamed College	Online	May2020
24	Artificial Intelligence (Webinar)	Mahendra Institute of Technology	Online	May2020
25	Fine Tuning Research Skills for Effective writing (Webinar)	Vivekananda College for Arts and Science	Online	May2020
26	Solar Panel System for your home (Webinar)	Tagore Engineering College	Online	May2020
27	How to get published in scientific journal (Webinar)	Sri Sairam Institute of Technology	Online	April2020
28	Engineering Graphics(webinar)	Bharath University	Online	April2020
29	FUZZY LOGIC (Workshop)	JAER	Online	April2020

30	DOE(Workshop)	JAER	Online	April2020
31	Design of Experiments(workshop)	Sri Sairam Institute of Technology,	Offline	July2015
32	Green Composites (Workshop)	Sri Sairam Institute of Technology,	Offline	August2014
33	Recent Advances in Composite Materials (Seminar)	Sri Ramanujar Engineering College	Offline	April 2014
34	Research Methodology(workshop)	Sri Venkateswara College of Engineering,	Offline	March2011
35	Eco- friendly Welding Process organized by Centre for Materials Joining and Research (CEMAJOR) (workshop)	Annamalai University, Annamalai Nagar,	Offline	March2011
36	Electromagnetic Forming Technology (EMFT 2010)’(workshop)	CEG campus, Anna UniversityChennai-25	Offline	Nov2010
37	Nano materials and its Applications (NANOMAT 2010) (workshop)	CEG campus, Anna UniversityChennai-25	Offline	Sep2010
38	The Art of Teaching Engineering Graphics by Solid works(workshop)	SKR Engineering College	Offline	Dec 2008
39	Emerging Strategies in Energy and Environment(workshop)	Sri Sairam Engineering College	Offline	March2008
40	Advances in Manufacturing Technology (workshop)	MITCampusAnnaUniversity, Chennai- 600 044.	Offline	March2007
41	Total Productive Maintenance –an Industrial Approach (workshop)	Adhiparasakthi Engineering College	Offline	August 2005
42	Advances in Image Processing &Robotics (ADIPRO)(Seminar)	MIT Campus, Anna University, Chennai-600 044.	Offline	February 2005
43	Technologists vision for Engineering Practices In 2000’s With Nano-Technology (Seminar)	Adhiparasakthi Engineering College & Indian Society For TechnicalEducation, Melmaruvathur-603319.	Offline	February 2003

FDP/STTP Attended:23

S.No.	Name of the FDP	Organized by (Institution Name)	Mode of Program	Month & Year
1	Industrial Application of Additive Manufacturing and Advanced Materials	Panimalar Engineering College	Online	December2025
2	Laser Based Manufacturing	NPTEL	online	OCTOBER 2025
3	Introduction to Composites	NPTEL	Online	OCTOBER 2025
4	Autodesk Inventor	ICT Academy	Offline	Febraury2025
5	Welding Process	NPTEL	Online	April 2024
6	Energy and Environmental Management	National Institute of Technical Teacher Training and Research Chennai.	Online	June 2024
7	Corrosion/ Environmental Degradation/ Surface Engineering	NPTEL	online	October2023
8	Product Design Engineering using Fusion360	ICT Academy	offline	August2022
9	Electric Vehicles	AICTE - ATAL	Online	September 2021
10	Strategies in Teaching Learning”	Sri Sairam Institute of Technology	Online	December 2020
11	Additive Manufacturing	AICTE - ATAL	Online	November 2020
12	Finite Element Method for Engineering Applications	Sri Sairam Institute of Technology	Online	September 2020
13	Operations Management	AICTE - ATAL	Online	August 2020

14	Energystorage characteristics, Surface treatment, Durability, Sustainability, and Microstructure Evaluation of Smart and Phase changeMaterials and Applications”	Sri Sairam Institute of Technology	Online	July2020
15	Manufacturing, Machining and Testing of Composites	Sri Sairam Institute of Technology	Online	June2020
16	Heat Transfer and Computational Fluid Dynamics Towards Industrial Applications	Sri Sairam Institute of Technology	Online	June2020
17	Materials for Thermal and Renewable Energy Research	Sri Sairam Institute of Technology	Online	May2020
18	Evolution of Teaching Learning Process- Post COVID19	Bharath Institute of Science and Technology	Online	May2020
19	Computer Aided Design and Manufacturing (CAD/CAM)	National Institute of Technical Teachers Training and Research, Chandigarh	Online	April2020
20	Fundamentals of Manufacturing Processes	NPTEL-AICTE	Online	July-Oct2019
21	Processing and Characterization of composite materials including Natural Fibre reinforced composites	Sri Sairam Institute of Technology	Offline	March2015
22	ME 6402- Manufacturing Technology-II	CEG Campus Anna University, Chennai-600025	Offline	December 2014
23	Innovative Teaching Methodologies	Adhiparasakthi Engineering College, Melmaruvathur-603 319.	Offline	May2011
24	Effective New Product Development Progrmme	Brakes India Limited Polambakkam	Offline	April2009

Conference Attended:09

S.No.	Name of the Conference	Organizer	Month & Year
1	AICTE Sponsored International Conference on ICAM E21	Sri Sairam Engineering College	January 2021
2	3 rd International Conference On ICMSD2020	Sri Sairam Institute of Technology	November 2020
3	3 rd International Conference on FAME2020	Sathyabama Institute of Science and Technology Ch-119	August 2020
4	2 nd International Conference On ICAMMAS 2017	Sri Sairam Institute of Technology	March2017
5	1 st international Conference on ICAMME 2014	Sri Sairam Institute of Technology	December 2014
6	International Conference on INCRAME12	Dr.M.G.R. Educational and Research Institute University	April 2020
7	1 st international Conference on ICFTME2012	Thiruvalluvar College Of Engineering and Technology	January 2012
8	National Conference on BIERP'07	Sree Sastha Institute of Engineering and Technology	March 2007
9	National Conference onRAPMATS-06	MITCampus,AnnaUniversity,Chennai- 600044	January 2006

Completed / Ongoing Projects: 00

Patent: 04

1. Multi-Rotor Horizontal Wind Turbine (Published)
2. Artificial Intelligence Based Organic Waste Composter (Granted)
3. Characterization And Fabrication Methods of Curaua fiber Reinforced Green Composites (Published)
4. Enhancing Mechanical Properties of Aluminium Matrix Composites with High -Entropy Alloy Reinforcement via Friction Stir Processing(Published)

Journal Publications: 12

1. Mechanical characterization and enhancing wear properties of

Glass/Sisal/nAl₂O₃strengthenedpolymermatrixnanocompositesusinghybrid optimization approach

Perumal G.; Deepanraj B.; Senthilkumar N. Velavan K.; Basha M.S.
Results in Engineering, Vol.26(2025), pp.

2. Investigating the corrosion activity of boron carbide and mica particle hybrid composites with an aluminum matrix prepared by stir casting

Velavan K.; Palanikumar K.; Perumal G.; Senthilkumar N.
Results in Engineering, Vol.26(2025), pp.

3. Investigation of a Pyramid Solar Still with CuO Nanoparticles-Paraffin Wax Blend as Energy Storage Material

Vijayaraghavan G.; Velavan K.; Babu K.; Yuvaperiyasamy M.; Mohanraj M.
Journal of Environmental Nanotechnology, Vol.14(2025), pp.1-6

4. Wear Performance of Hybrid Ceramic Strengthened Nano-aluminium Composites for Potential Application in Brake Discs

Sundaraselvan S.; Velavan K.; Senthil V.; Perumal G.
Journal of Environmental Nanotechnology, Vol.13(2024), pp.527-535

5. Mechanical characterization of aluminium alloy LM25 reinforced with TiC and graphite for structural applications

Velavan K.; Palanikumar K.; Thirumal K.; Ragul Kannan K.; Kannan M.; Arunkumar P.
Materials Today Proceedings, Vol.72(2023), pp.2049-2055

6. Corrosion and microstructure studies on magnesium alloy composite reinforced with mSiCp fabricated via powder metallurgy

Velavan K.; Palanikumar K.; Dhanush V.; Raja Pandiyan S.; Thamesh Kumar U.; Aishwarya M.
Materials Today Proceedings, Vol.72(2023), pp.2132-2138

7. Studies on the performance of hydrokinetic river turbines

Chidambaram P.K.; Muruganandam D.; Esra V.; Velavan K.; Rajan S. Aip
Conference Proceedings, Vol. 2393 (2022),

8. Drilling parameters analysis on in-situ Al/B4C/mica hybrid composite and an integrated optimization approach using fuzzy model and non-dominated sorting genetic algorithm

Kayaroganam, Palanikumar and Krishnan, Velavan and Natarajan, Elango and Natarajan, Senthilkumar and Muthusamy, Kanesan Metals, Vol.11(2021), pp.2060

9. Experimental investigation of sliding wear behaviour of boron carbide and mica reinforced aluminum alloy hybrid metal matrix composites using Box-Behnken design

Velavan K.; Palanikumar K.; Senthilkumar N. Materials Today Proceedings, Vol.44(2021), pp.3803-3810

10. Implications on the influence of mica on the mechanical properties of cast hybrid (Al+10%B4C+Mica) metal matrix composite

Velavan K.; Palanikumar K.; Natarajan E.; Lim W.H. Journal of Materials Research and Technology, Vol.10(2021), pp.99-109

11. Analysis on sliding wear behavior of Al+B4C+mica hybrid metal matrix composites

Velavan K.; Palanikumar Materials Express, Vol.10(2020), pp.986-997

12. Effect of Silicon Carbide (SiC) on Stir Cast Aluminum Metal Matrix Hybrid Composites—A Review

Velavan K.; Palanikumar AMM(2015) pp 766-777

Books / Book Chapters: 00

Awards : 00

Webinar: 00

Resource Person: 00

Online Courses: 00