

Name	Dr. K. PANNEER SELVAM			
Contact (office)	Associate Professor Department of Mechanical Engineering M.I.E.T Engineering College Trichy.			
Email	kpselvam@miet.edu			
Educational Qualifications	DEGREE	EDUCATIONAL INSTITUTION	BOARD/ UNIVERSITY	YEAR PASSING
	Ph.D., Design and Vibration analysis	Anna University	Anna University	2020
	M.E., Engineering Design	Kongu Engineering College, Erode	Anna University	2008
	B.E., Mechanical Engineering	Kurinji college of Engg&Technology, Trichy	Anna University	2006
Professional Career Profile	Organization	Designation	Date of Joining	Duration of work
	Oxford Engineering college, Trichy	Lecturer	02.09.2009	24.04.2011
	SRM TRP Engg. College, Trichy	Assistant Professor	01.07.2011	30.04.2015
	Indra Ganesan College of Engg., Trichy	Assistant Professor	10.07.2015	31.05.2017
	MIET Engineering College, Trichy	Assistant Professor	28.06.2017	02.01.2023
		Associate Professor	02.01.2023	Till date
Awards & Recognitions	Received cash award and Certificates for Achieving 100% result in Anna University Examinations during 2010. Received award and Certificates for highest fund generated during the Academic year 2023-2024.			
Membership in Professional Bodies	IAENG (Life Member)			
Academic Areas of Interest	Vehicle Suspension, Mechanical Design, Vibration Analysis, Multi-body dynamic Analysis, Finite Element Analysis and mathematical modeling.			
Administrative Capabilities	<ul style="list-style-type: none"> ➤ Head of MSME approved Incubation Centre. ➤ Institute R&D Coordinator. ➤ Criterion-3 (NBA) in-charge in the department level. ➤ Criterion-2 (NAAC) in-charge. 			

LISTOF PUBLICATIONS

- **K. Panneer Selvam**, Pranesh Ganesan, Pannir Selvam Kasavan & Senthilkumar Sambasivam, "Experimental and Simulation Investigation of Vertical Response of Stepped Torsion Bar Spring for Light Motor Vehicle Suspension", Proceedings of the iMeche, Part D: Journal of Automobile Engineering, Vol. 237, Issue-07, Page 1479–1488, 2023 <https://doi.org/10.1177/09544070221128872>.
- **K. Panneer Selvam**; Ganesan, Pranesh; Tamilmani, Thendral, "Experimental and simulation results of gasification of biomedical waste and Indian palm kernel shell in a fluidized bed gasifier under steam atmosphere", Proceedings of the iMeche, Part A: Journal of Power and Energy, Vol. 236, Issue-07, Page 1433–1445, 2022. <https://doi.org/10.1177/095765092210949>.
- **K.Panneer Selvam** & Jinu G R, "Mathematical modeling and Transient response Analysis of SAE 6150 steel stepped torsion bar spring", Journal of the Balkan Tribological Association, Issue -04, Vol. 25, page 856-866, 2019.
- **K. Panneer Selvam**, K Ramesh & Sivaganesan V, "Analysis of composite Leaf spring over Metal Leaf for Light Motor Vehicle" Journal of Applied Science and Computations (UGC), Issue -01, Vol. 6, page 268-277, 2019.
- Senthilkumar Sambasivam, G, Karthikeyan & **K Panneer Selvam**, "Optimization of Squeeze Casting Process parameters on AA8011 based HMMCs under NaCl environment", Archives of metallurgy and materials (Accepted for Publication).

LISTOF PATENTS

- **Dr. Panneer Selvam K**, "Parallel rods flat follower cam mechanism", Patent number: 202141006422, Status: Published.
- **Dr. Panneer Selvam K**, and Dr.G R Jinu "Quarter car model experimental setup for torsion bar spring suspension system", Patent number: 202141009760, Status: Under Examination.
- Dr. A. Naveen Sait and **Dr. K. Panneer Selvam** "Anthropometry based ergonomic design of cartridge head for dental flick", Patent number: 202241038741, Status: Under Examination.

SEMINAR/WORKSHOP/TRAINING PROGRAM

- Attended one day National Intellectual Property Awareness Mission (NIPAM) workshop, Organized by Office of Controller General of Patents, Designs and Trade Marks, Chennai.
- Attended a 5 days FDP on "Frontiers of Additive Manufacturing: Exploring Advanced 3D Printing Technology and Applications, Conducted by Department of Mechanical Engineering, Vels Institute of Science, Technology & Advanced Studies (VISTAS).
- Completed a four week FDP on Patent Drafting for Beginners, under NPTEL.
- Completed a one week FDP on Product design engineering and modelling, Under Naan Mudhalvan Scheme, Govt., of Tamil Nadu.
- Participated in a three days FDP on "ANSYS- An Introductory Training" conducted by department of mechanical engineering, NIT, Trichy.
- Participated in five days TEQIP-II sponsored FDP on "Foundation Skills in Integrated Product Development (FSIPD)" conducted by Bharathidasan institute of technology (BIT) campus, Anna University, Tiruchirappalli.
- Participated a one-day national workshop on "Recent Trends in Optimization" conducted by department of mechanical engineering, University college of engineering, Nagercoil.
- Participated in one-day workshop on "Road safety & Accident Prevention" conducted by department of mechanical engineering, Oxford engineering college, Trichy.
- Participated in one-day workshop on "How to write research article" conducted by department of mechanical engineering, Indra Ganesan college of engineering, Trichy.
- Participated in the CSIR sponsored National Seminar on "Mathematical and Bayesian Statistical Modeling for Engineering Application" organized by the department of mathematics, Kongu Engineering College, Erode.
- Participated in two days national level seminar on "Sustainable technologies for future-vision 20" conducted by department of mechanical engineering, Oxford engineering college, Trichy.

Conferences Attended

- Presented a paper "Experimental analysis of performance and power tweaking of two stroke petrol engine" in National Conference at Mahindra Engineering College, Namakkal, 2008.
- Presented a paper "Design and shape optimization of the connecting rod" in National conference at Nadar Saraswathy College of Engg and Tech, Theni, 2016.
- Presented a paper "multibody dynamic brake pull simulation and analysis of double wishbone suspension system using Msc adams" in National conference at SRM TRP Engineering College, Tiruchirappalli, 2021.
- Presented a paper "Characterization and Testing of AL- ZrO₂ Metal Matrix Composites" in international conference at Nadar Saraswathy College of Engg and Tech, Theni, 2021.
- Presented a paper "Design and Analysis of Electric motor for Sound Isolation" in international conference at Nadar Saraswathy College of Engg and Tech, Theni, 2024.

Grant Received:

- TNSCST Students Project Scheme "Automatic scavenging machine to control water pollution" for the cost of Rs 7, 500, Project Code: EME-0439, AY 2022- 2023.
- Received 11 Lakhs under MSME Incubation Component for Student Entrepreneurship development, AY 2023-2024.

NPTEL course completed:

- Modelling and Simulation of Dynamic Systems, course duration - 8 weeks.
- Product Design and Innovation, course duration - 4 weeks.
- Nature and Properties of Materials, course duration - 8 weeks
- Patent Drafting for Beginners, course duration - 4 weeks.

Journal Reviewer:

- Proceedings of the iMeche, Part D: Journal of Automobile Engineering, Sage Publication.
- Adsorption Science & Technology.
- International Journal of Photoenergy.
- Trends in Machine Design.
- Journal of Qeios.
- International Journal of Material Research.

Events Organized:

- Conducted one day seminar on the topic "What, Why and How – in doing Research", Resource person "Dr. N Lakshminarasimhan, Senior Principal Scientist, Central Electrochemical Research Institute (CECRI), Karaikudi, at M.I.E.T. Engineering College on 11.03.2023.
- Conducted one day seminar on the topic "Nuclear Energy and Human Welfare", Resource person "Dr. T Jesan, Officer In-Charge, Environmental Survey Laboratory, Bhabha Atomic Research Centre (BARC), Kalpakkam, Chennai, at M.I.E.T. Engineering College on 20.07.2023.
- Evaluated the Ideas received under MSME Idea Hackathon 3.0 (Women) with constituted Evaluation committee on 28.08.2023.
- Conducted an Entrepreneurship Development programme on the topic of "Light Up Your Startup Ideas" sponsored StratupTN, Govt of Tamil Nadu on 20.10.2023.
- Conducted internship Program "Engineering Drawing and Design Technologies (AutoCAD)" for XIth, School Students, from 22.11.23 to 05.12.23 for 10 day.