

FACULTY PROFILE

VIGNESH KUMAR. R

Personal Details

Salutation: Mr.

Instructor Name: Vignesh Kumar. R

Designation: Assistant Professor

Department: MECHANICAL ENGINEERING -
NEC

**Date of Joining in
NEC:** 19-06-2013

**Date of Joining in
Present Post:** 19-06-2013

Mobile Number: 9944762861

College Id: CEST508

College Email Id: vigneshces@nec.edu.in



Address for Communication

Address Line 1: 41 CHELLAPANDIAN STREET **Pincode:** 628501

City: KOVILPATTI **District:** THOOTHUKUDI

State: TAMILNADU

Educational Qualifications

Sr	Name of the Degree	Specialization	Name of the Institute	Name of the University	Year of Passing
1	M.E	ENERGY ENGINEERING	NATIONAL ENGINEERING COLLEGE	ANNA UNIVERSITY CHENNAI	2012
2	B.E	MECHANICAL ENGINEERING	EINSTEIN COLLEGE OF ENGINEERING	ANNA UNIVERSITY CHENNAI	2008
3	Ph.D	Nanocomposite for Thermal Application	National Engineering College	Anna University	Pursuing (Synopsis Submitted)

Faculty Professional Experience

Sr	Name of Institute / Organizations	Designation	Date of Joining	To	Total Experience
1	P.S.R. Engineering College	Lecturer	08-06-2009	30-04-2010	08 Months
2	Srividya College of Engineering and Technology	Assistant Professor	03-08-2012	18-06-2013	08 Months

Sr	Name of Institute / Organizations	Designation	Date of Joining	To	Total Experience
3	National Engineering College	Assistant Professor	19-06-2013	01-08-2021	08 Years 02 Month
4	National Engineering College	Assistant Professor (Senior Grade)	02-08-2021	01-04-2022	08 Months

FDP/ Workshop/ Seminar/ Training/ Knowhow Program Attended

Sr	Name of the Event	Event Type	Name of the Institution or Organization	From	To
1	National Programme on Technology Enhanced Learning	National Workshop	Sri Vidya College of Engineering and Technology, Virudhunagar	24-12-2012	24-12-2012
2	Research opportunities in solar thermal	National Workshop	National Engineering College, Kovilpatti	12-12-2012	12-12-2012
3	New Frontiers and Advancements of Tribology	National Workshop	National Engineering College, Kovilpatti	25-02-2014	25-02-2014
4	Next Generation Technologies for sun-wind energy conversion	National Seminar	National Engineering College, Kovilpatti	28-02-2014	28-02-2014
5	Advances in Energy Storage for energy management and broader use of renewable sources	National Workshop	Anna University, Chennai	27-03-2014	27-03-2014
6	Advances in Industrial Tribology	National Seminar	National Engineering College, Kovilpatti	11-02-2015	12-02-2015
7	National Programme on Technology Enhanced Learning	National Workshop	National Engineering College, Kovilpatti	13-03-2015	13-03-2015
8	Solar Photovoltaic and thermal Energy: state of art technology for rural development	National Seminar	National Engineering College, Kovilpatti	11-03-2016	11-03-2016
9	Advanced Engines and Emission control technologies	National Seminar	Anna University, Chennai	03-03-2017	04-03-2017
10	Recent and Future Trends in automobile engineering	National Workshop	Anna University MIT Campus, Chennai	09-03-2018	10-03-2018
11	"How Teachers can make a Difference"	Faculty Development Program	RAJALAKSHMI ENGINEERING COLLEGE - AICTE – Margdarshan	15-06-2020	19-06-2020
12	"Road Map to get a Quality Patent"	Faculty Development Program	AMET Deemed to be University, Chennai.	13-06-2020	
13	"Super-capacitors - Trends and challenges ",	National Seminar	PSG Institute of Technology and Applied Research	22-06-2020	26-06-2020

Sr	Name of the Event	Event Type	Name of the Institution or Organization	From	To
14	"ADVANCED MATERIALS AND MANUFACTURING"	Faculty Development Program	Kakatiya Institute of Technology and Science, Warangal, Telangana	29-06-2020	03-07-2020

International and National Conferences Attended

Sr	Name of the Conference	Event Type	Name of the Institution or Organization	Title of the Paper
1	AMP'17	International Conference Presentation	Kalasalingam University, Srivilliputhur	Performance Improvement of Single slope stepped absorber plate solar still using wicked coconut coir disk.
2	ICRTMC'19	International Conference Presentation	Pet Engineering College, Vallioor	Performance Analysis of Small Scale wind powered Mobile Charger.
3	RACEEE'19	International Conference Participation	SSN College of Engineering , Chennai	Trnsys model and comparison of parallel flow flat plate solar water heating system.

Faculty Research Publications

Sr	Title of the Paper	Name of the Journal	Year of Publication	Authors	DOI (Digital Object Identifier System)
1	Influence of hot extrusion on strain hardening behaviour of graphene platelets dispersed aluminium composites	Journal of Alloys and Compounds	2021	RV Kumar, R Harichandran, U Vignesh, M Thangavel, SB Chandrasekhar	https://doi.org/10.1016/j.jallcom.2020.157448
2	Enhancing the fresh water produced from inclined cover stepped absorber solar still using wick and energy storage materials	Environmental Science and Pollution Research	2021	Vignesh Kumar Ramalingam, Alagar Karthick, Manoj Praveen Vijayan Jeyalekshmi, Arul Marcel Moshi Antony Joseph Decruz, Athikesavan Muthu Mano	https://doi.org/10.1007/s11356-020-12030-1
3	Performance and emission characteristics of diesel engine fueled with ternary blends of linseed and rubber seed oil biodiesel	Fuel	2021	PM K Sudalaiyandi, Karthick Alagar, R. Vignesh Kumar, Manoj Praveen VJ	https://doi.org/10.1016/j.fuel.2020.119255

Sr	Title of the Paper	Name of the Journal	Year of Publication	Authors	DOI (Digital Object Identifier System)
4	A comprehensive MCDM-based approach using TOPSIS and EDAS as an auxiliary tool for pyrolysis material selection and its application	Biomass Conversion and Biorefinery	2020	CS Dhanalakshmi, P Madhu, A Karthick, M Mathew, RV Kumar	
5	Performance enhancement of copper indium diselenide photovoltaic module using inorganic phase change material	Asia-Pacific Journal of Chemical Engineering	2020	A Karthick, P Ramanan, A Ghosh, B Stalin, R Vignesh Kumar,	
6	Heat Transfer Enhancement of Air-Concrete Thermal Energy Storage System – CFD Simulation and Experimental Validation under transient condition	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	2021	P Madhu VJ Manoj Praveen, R Vigneshkumar, N Karthikeyan, A Gurumoorthi, R Vijayakumar	https://doi.org/10.1177/09544089211007370
7	Performance analysis of domestic solar air heating system using V-shaped baffles—an experimental study	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	2021		https://doi.org/10.1177/09544089211016256
8	Experimental and numerical evaluation of thermal conductivity of graphene nanoplatelets reinforced aluminium composites produced by powder metallurgy and hot extrusion technique	Journal of Alloys and compounds	2022	R Harichandran, RV Kumar, M Venkateswaran	https://doi.org/10.1016/j.jallcom.2021.163401

Product Development Activities

Sr	Product Title	Funding Agency	Funds Received	IPR Status
1	SEMI AUTOMATED SEWAGE CLEANING MACHINE FOR OPEN SEWAGE	NewGen IEDC	₹ 2,50,000.00	Filed

Membership in Professional Societies

Sr	Name of the Society / Organization	Type of Membership
1	Institute of Engineers	Associate Member

Instructor Log

Sr	Academic Year	Academic Term	Department	Program	Course
1	2021-22	2021-22 (EVEN)	MECHANICAL ENGINEERING - NEC	B.E (MECHANICAL ENGINEERING)	19ME43C-THERMAL ENGINEERING
2	2021-22	2021-22 (EVEN)	COMPUTER SCIENCE AND ENGINEERING - NEC	B.E (COMPUTER SCIENCE AND ENGINEERING)	GRAPHICS
3	2021-22	2021-22 (ODD)	MECHANICAL ENGINEERING - NEC	B.E (MECHANICAL ENGINEERING)	15ME51C - HEAT AND MASS TRANSFER
4	2021-22	2021-22 (ODD)		B.Tech (INFORMATION TECHNOLOGY)	15ID03E - ENERGY ENGINEERING
5	2020-21	2021-22 (EVEN)		B.E (COMPUTER SCIENCE AND ENGINEERING)	PROJECT MANAGEMENT AND FINACE
6	2020-21	2021-22 (EVEN)		B.E (COMPUTER SCIENCE AND ENGINEERING)	