


A1	Personal Details	
Dr.P. NAVANEETHAKRISHNAN, M.E., Ph.D.		
Professor & Director Students Affairs		
Department of Mechanical Engineering		
Knowledge Institute of Technology, Salem - 637 504. India.		
Ph: +91 9842950323		
Email id: pnkmech@kiot.ac.in		

A2	Areas of Interest	Engineering Design
----	-------------------	--------------------

A3	Subject Taught	
	UG	PG
Engineering Graphics		Design of Material Handling Equipment
Engineering Mechanics		Design of Fluid Power Systems
Fluid Mechanics and Machinery		Finite Element Analysis
Strength of Materials		Design for Manufacturing
Dynamics of Machines		

A4	Academic Background				
Degree	Specialization	Name of the Institute	University	Year of Passing	Class
Ph.D.	Mech	Coimbatore Institute of Technology, Coimbatore.	Bharathiar University	2009	-
M.E.	Engineering Design	Kongu Engineering College,	Bharathiar University	1995	I Class
B.E.	Mech	Kongu Engineering College,	Bharathiar University	1990	I Class

A5		Work Experience as on July 2021					
Name of the Institution		Position		From		To	
Knowledge Institute of Technology, Salem.		Director – Student Affairs		25.01.2023		Present	
Kongu Engineering College		Chief Coordinator – Planning		20.08.2020		24.01.2023	
Kongu Engineering College		Professor and Head		01.06.2010		19.08.2020	
Kongu Engineering College		Professor		01.01.2009		31.05.2010	
Kongu Engineering College		Assistant Professor		01.10.2005		31.12.2008	
Kongu Engineering College		Lecturer		09.07.1998		30.09.2005	
Kongu Polytechnic College		Instructor		30.05.1996		08.07.1998	
Total Experience	Years 26.10	Teaching	Years 26.10	Research	Years 10	Administration	Years 12

A6		Research Publications & Patents				
Total Number of Publications		International Journal	National Journal	International Conference	National Conference	Total
		41	13	22	11	86
Citations	1588	h-index	17	i-index	23	
Publications – International / National Journals						
1. Google Scholar Profile: https://scholar.google.co.in/citations?user=Sm_2A8wAAAAJ						
Sl.No	Title of the Paper	Name of the Journal			Vol. No. /Issue No. /Page No. / Year	
1.	Investigation on the technical and economic benefits of implementing biomass gasifier in clay brick manufacturing industries	Sustainable Energy Technologies and Assessments			53 102554, 2022	
2.	Augmentation of crashworthiness design of circular tubular structures by engraving grooves of varying depths	Mechanics of Advanced Materials and Structures			1-14, 2022	

3.	Evaluation of tensile strength retention and service life prediction of hydrothermal aged balanced orthotropic carbon/glass and Kevlar/glass fabric reinforced polymer hybrid composites	Journal of Applied Polymer Science	139,6 51602, 2022
4.	Natural Fibre- Reinforced Bio composites	Advances in Bio-Based Fibre (Book Chapter)	2022
5.	Impact strength retention and service life prediction of 0- degree laminate jute fibre woven mat reinforced epoxy composites	Advances in Bio-Based Fibre (Book Chapter)	393-406, 2022
6.	Optimization of geometric parameters for mode-I fracture analyse on glass fibre woven mat thermoplastic laminated composites	Materials Today: Proceedings	52 2474-2478, 2021
7.	Thermal stability and tribological behaviours of tri- fillers reinforced epoxy hybrid composites	Applied Science and Engineering Progress	14,4 727-737, 2021
8.	Effect of Angle Ply on the Mechanical Performance of Jute Fibre Woven Mat/Epoxy Composites with Varying Ageing Conditions	Applied Science and Engineering Progress	14,4 737-747, 2021
9.	An experimental investigation on utilizing cassava stalk as biomass sources in a gasifier	IOP Conference Series: Materials Science and Engineering	1057,1 012040, 2021
10.	Investigation of Mechanical and Corrosion Properties of Al 7075/garnet Metal Matrix composites by two-stage Stir Casting Process	Archives of Metallurgy and Materials	66, 2021
11.	Mechanical behaviours of aluminium filler and jute fibre mat reinforced epoxy hybrid composites	Hybrid Natural Fibre Composites (Book chapter)	21-40, 2021
12.	The Influence of Nickel Oxide Nanoparticle Dispersion on the Thermo Stability of Lubricant Oil	Journal of Nanoscience	19, 01, 1850044, 2020

13.	Effect of Various Orientation of Banana Fibre Woven Mat on Fracture Behaviours of Laminated Epoxy Composites	Journal of Nanoscience	25,02,2020
14.	Effect of Glass and Banana Fibre Mat Orientation and Number of Layers on Mechanical Properties of Hybrid Composites	Biofibres and Biopolymers for Bio composites	295-312, 2020
15.	The influence of fibre content and length on mechanical and water absorption properties of Calotropis Gigantea fibre reinforced epoxy composites	Journal of Industrial Textiles	48 (8), 1274-1290, 2019
16.	Synergy of cashewnut shell filler on tribological behaviours of natural-fibre-reinforced epoxy composite	Science and Engineering of Composite Materials	25 (4), 761-772, 2019
17.	Evaluation of tensile and thermal behaviour analysis of Coccinia Indica fibre	Journal of the Chinese society of mechanical engineers	39/1-12/, 2018
18.	Characterization of calotropis gigantea fibre and its composites	Journal of Manufacturing Engineering	13,3 176-181, 2018
19.	The influence of fiber content and length on mechanical and water absorption properties of Calotropis Gigantea fiber reinforced epoxy composites	Journal of Industrial Textiles	1/17, 2018
20.	A study on heat transfer characteristics of inclined copper sintered wick heat pipe using surfactant free CuO and Al ₂ O ₃ nanofluids	Journal of the Taiwan Institute of Chemical Engineers	81/190-198, 2017

21.	Characterization of sisal/cotton fibre woven mat reinforced polymer hybrid composites	Journal of industrial textiles	47/4/ 429-452, 2017
22.	Synergy of cashewnut shell filler on tribological behaviours of natural-fibre- reinforced epoxy composite	Science and Engineering of Composite Materials	25/4/761-772, 2017
23.	Mechanical and Corrosion Behaviour of Al7075 (Hybrid) Metal Matrix Composites by Two Step Stir Casting Process	Latin American Journal of Solids and Structures	14/2/243-255, 2017
24.	Thermal characteristics studies on sintered wick heat pipe using CuO and Al ₂ O ₃ nanofluids	Experimental Thermal and Fluid Science	79/25-35, 2016
25.	Effect of Pre-treatment Methods on Properties of Natural Fibre Composites: A Review	Polymers & Polymer Composites	24/7/555-566, 2016
26.	Experimental Investigation of Planted Pin Fin in Plate Fin Heat Sink for Electronics Cooling	JP Journal of Heat and Mass Transfer	13/2/143, 2016
27.	Characterization of novel Passiflora foetida natural fibres for paper board industry	Journal of Industrial Textiles	2016
28.	Analysis of Al7075 hybrid metal matrix composite using Two-dimensional microstructure model based finite Element method	International Journal of Advanced Engineering Technology	7/2/180-183, 2016
29.	Dynamic Risk Identification Using Fuzzy Failure Mode Effect Analysis in Fabric Process Industries: A Research Article as Management Perspective	International Journal of Social, Behavioural, Educational, Economic, Business and Industrial Engineering	9/1/276-280, 2015

30.	Implementation of Robust Framework for Improvement of Productivity through TPM. A Research Article	Journal of Applied Mechanics and Materials	472,1099-1104, 2014
31.	Mathematical Modelling and Optimization of Mechanical Properties of Short Coir Fiber-Reinforced Vinyl Ester Composite Using Genetic Algorithm Method	Mechanics of Advanced Materials and Structures	21/7/559-565, 2014
32.	Mechanical properties and water absorption of short snake grass fiber reinforced isophthalic polyester composite	Fibers and polymers	15/9/1927-1934, 2014
33.	Hybrid fiber reinforced polymer composites – a review	Journal Reinforced Plastics and Composites	33/5/454-471, 2014
34.	Graphene and modified graphene-based polymer nanocomposites – A review	Journal Reinforced Plastics and Composites	33/12/1158-1170, 2014
35.	Glass fiber reinforced polymer composites- a review.	Journal Reinforced Plastics and Composites	33/13/1258-1275, 2014
36.	Investigation of chemically treated randomly oriented sansevieria ehrenbergii fiber reinforced isophthalic polyester composites	Journal Composite Materials	48/24/ 2961-2975, 2014
37.	Experimental Investigations to Evaluate the Mechanical Properties and Behavior of Raw and Alkali Treated King's Crown (Calotropis Gigantea) Fiber to be Employed for Fabricating Fiber Composite	Applied Mechanics & Materials	598/73-77, 2014
38.	Integrated application of TRIZ with lean in the manufacturing process in a machine shop for the productivity improvement	International Journal of Productivity and Quality Management	13/4/414-429, 2014

39.	Mechanical and machinability behaviors of wovencoir fiber-reinforced polyester composite	Fibers and Polymers	14/9/11505-1514, 2013
40.	Optimization of mechanical properties of non- woven short sisal fibre-reinforced vinylester composite usingfactorial design and GA method	Bulletin of Materials Science	36/4/575-583, 2013
41.	Effect of heating coil in commercial shopdisplay cabinet	Journal of the Indian Institute of Science	86/5/457, 2013

A7	Memberships in Professional Bodies
S.No.	Name of the Professional Body
1.	Indian Society of Technical Education (ISTE) -LM 27858
2.	Indian Society of MechanicalEngineers (ISME) -LM18541
3.	Fellow in Institution of Engineers ofIndia (IEI) -F-118077-7
4.	Chartered Engineer (CE) -M-131295/7
5.	Institution of Valuers (FIV) -F-17325
6.	BEE Certified Energy Auditor, Govt.of India- (Energy Manager and EnergyAuditor) -EA 3643
7.	Energy Audit Team Member in (TNEB)
8.	Society of Automotive Engineers (SAE) -7140413584

A9	Awards, Grants and Honors
S.No	Name of the Award
1.	Star Local Chapter Award by NPTEL(2021) for consecutive goodperformance in 7 semesters
2.	Best Department in Industry Institute Partnership Activities (IIPC)Award (2017)
3.	Best Participation Award by SAEISS (2017)
4.	Best Professor Award by Association of Scientists, Developers andFaculty (ASDF) (2016)
5.	Best Department Award for Mechanical Engineering Department twice(2011 & 2015)
6.	Best Outstanding Engineer Award by Institution of Engineers,Coimbatore Local Chapter (2015)
7.	Best Researcher Award by Venus International (2015)
8.	Best Researcher Award by CTS, Chennai(2014)
9.	Best Faculty Award by Nehru Group of Institutions (2014)
10.	Best Local Chapter Award by NPTEL 9 times since 2016 (once insemester)

RESEARCH GRANTS RECEIVED

Sl. No	Title of the Project	Name of the Investigators	Name of the Funding agency	Total amount sanctioned in Rs. Lakh
1	Investigation on fabric quality and defects using sensor-based model with Fuzzy and Neuro intelligent system	Dr.A.Sivakumar Dr.P.Navaneethakrishnan	UGC, New Delhi	10.21
2	Modernization of Thermal Engineering Laboratory	Dr.P.Navaneethakrishnan P.Thangavel	AICTE	10.43
3	Automatic Solar radiation Monitoring Station	Dr.P.Navaneethakrishnan	MNRE	27.04
4	Design and Fabrication of Hybrid Refrigeration system (MRP)	Dr.P.Navaneethakrishnan P.Thangavel	UGC New Delhi.	9.33
5	Waste Heat Recovery from Air Conditioner units	Dr.PSS.Srinivasan Dr.P.Navaneethakrishnan	AICTE	6.00
Total Sanctioned				63.01

A10 Funded Details & Major Contributions					
Sl. No	Seminar / Workshop / STTP / SDP / FDP / Conference	Topic / Title	Name of the funding agency and amount sanctioned in Rs. Lakh	Period	Specify the Roll (Coordinator / Co-Coordinator / Member)
1	STTP	Application of Computational Fluid Dynamics (CFD) with Special Reference to Food Industries	AICTE 1,50,000	May 2004	Co-Coordinator
2	Seminar	Flexible Fuel Vehicle	DST 30,000	May 2010	Coordinator

3	Seminar	Science Research in Cryogenic Applications	CSIR 30,000	June 2011	Coordinator
4	Seminar	Steam Generator Ergonomics for Process Industries	CSIR 30,000	Aug 2011	Coordinator
5	Seminar	Intelligent Manufacturing Systems	CSIR 30,000	Sep 2011	Coordinator
6	Seminar	Consumables through Composites Processing & Preparation	CSIR30,000	Sep 2011	Coordinator
7	FDP	Kinematics of Machinery	Anna University, CBE 75,000	Nov 2011	Coordinator
8	FDP	Total Quality Management	KEC 20,000	Dec 2011	Coordinator
9	FDP	Quantitative Tools for Research	KEC 30,000	Jan 2012	Coordinator
10	Seminar	Mechanized Technologies Towards Sustainable Growth of Agriculture	CSIR 30,000	March 2012	Coordinator
11	Seminar	NDTs Breakthrough in Solving Quantative Manufacturing Problems	DST 30,000	March 2012	Coordinator
12	International Conference	Advances in Construction, Manufacturing and Automation research (INCACMA-2012)	KEC, KVB, NI, CSIR, ABB	March 2012	Coordinator
13	Seminar	ACM Processing & Application	CSIR Rs.30,000	July 2012	Coordinator
14	Seminar	Alternate Fuels- Sustainable Sources and Handling Techniques	CSIR 30,000	August 2012	Coordinator
15	Seminar	Efficient Technologies for Renewable Energy Conversion	CSIR30,000	October 2012	Coordinator

16	Seminar	Application of Carbon Nanotube Composites in Green Technology- Research Focus	DAE-BRNS 25,000	November 2012	Coordinator
17	Seminar	Economical, Ecological and Sustainable Manufacturing Processes - A Global Challenge	CSIR 30,000	December 2012	Coordinator
18	Seminar	Carbon Nanotube Composites Processing, Preparation and Applications	CSIR 30,000	January 2013	Coordinator
19	Workshop	ANSYS-CFD Training	AU-FRG, 1,10,000	March 2013	Coordinator
20	National Conference	Innovations in Mechanical, Mechatronics and Building Sciences (NCIMMBS-2013)	KEC 50,000	April 2013	Coordinator
21	Seminar	Concentrated Photovoltaics- Methodologies Issues & Challenges	CSIR 30,000	July 2013	Coordinator
22	FDP	Design of Transmission Systems	Anna University 90,000	December 2013	Coordinator
23	National Conference	National Conference on Innovations in Mechanical, Mechatronics and Building Sciences - 2014	KEC 50,000	March 2014	Coordinator
24	FDP	Dynamics of Machinery	Anna University 55,000	June 2014	Coordinator
25	Convention	National Level Students Convention	SAEISS 10,00,000	Feb 2017	Coordinator
26	Competition	National Level Bicycle Design Competition	SAEISS 4,00,000	Aug 2019	Coordinator
Total Fund Received			27.15 Lakh		

A11	Universities Visited
1.	IISC Bangalore.
2.	IIT Madras, IIT Bombay & IIT Guwahati
3.	NIT Trichy & NIT Surathkal
4.	Anna University ,Chennai.
5.	VIT,SRM University & Sastra University.
6.	Karunya University.
7.	Periyar Maniyammai University