

1- Personal Details

Name : Dr. Kotturu V V Chandra Mouli
Designation : Assistant Professor
Date of Birth : 30 July 1968
Nationality : Indian
Telephone : +966 16404 2545
Mobile : + 966 533525211
Email : c.mouli@mu.edu.sa



2- Area of specialization:

Major	Mechanical Engineering
Minor	Industrial Engineering

3- Education & Qualifications

Date	Degree	University name	Country	Title of the Dissertation
03 October 2007	Ph.D	JNTU Hyderabad	India	Some Constrained Optimization Methods for Various Industrial Engineering Problems
12 September 2011	Ph.D	IIT Kharagpur	India	An Exploratory Study of Subcontracting Relationships and the Growth of Small and Medium Enterprises in India in the Automotive Industry
29 December 1999	Master	JNTU Hyderabad	India	Modernization of Shop Floor Layout in A Pistons Manufacturing Industry
22 August 1994	Bachelor	IEI	India	Design And Development of Tricycle

4- Professional Activities:

Job Title	Place	Country	From	To
Co-coordinator E learning	CoE, Majmaah University	Saudi Arabia	25 August 2021	Continuing
Co-coordinator Research			10 September 2017	18 August 2020
Chairman Board of Studies of Industrial Engineering	GITAM Deemed University	India	15 June 2012	17 October 2014
Assistant/Vice Principal, GIT			7 September 2010	
Head of Industrial Engineering Depart.			15 June 2010	6 September 2010

5- Teaching Experiences

#	Teaching Experiences	University	From	To
1	Department of Mechanical and Industrial Engineering	Majmaah University, KSA	19 October 2014	Continuing
2.	Professor of Industrial Engineering	GITAM Deemed University	31 Jan 2001	18 October 2014

6- Areas of Specialization

#	Areas of Specialization
1	Statistical Data Modeling and Analysis
2	Meta Heuristics for Multi objective optimization
3.	Strategic Management and Policy Planning & Analysis
4	Growth Strategies for SMEs, Inter firm Linkages between SMEs and LEs

7- Current membership in professional organizations

#	Membership	ID
1	Fellow of The Institute of Engineers (India)	F 1143499
2	Member of System Dynamics Society of India	M 345267
3	Member of Institute of Science Technology and Engineering	M 9845612
4	Quality Council of India	-

8- Publications (Most important publications in the last 5 Years)

#	Publications / Presentations	Journal (Conference)	Publishing Year (Conference Date)
1	Cutting-Edge Advancements in Hof-derived Materials for Energy Storage Super Capacitor Application	International Journal of Hydrogen Energy, Vol. 90, pp 1-24	2024
2	Simulation and Optimization of Energy Efficiency and Total Enthalpy Analysis of Sand Based Packed Bed Solar Thermal Energy Storage	Frontiers in Heat and Mass Transfer, Vol. 20(4), pp 1043-107	
3	Thermal Entropy Generation and Exergy Efficiency Analysis of rGO/Water Nanofluid in a Tube under Turbulent Regime Through Experimental and Fully Connected Neural Network	Diamond and Related Materials, Vol. 145, 111067.	
4	Experimentally determining the thermos physical properties, heat transfer and friction factor Fe ₃ O ₄ -TiO ₂ magnetic hybrid Nano fluids in a mini-heat sink under magnetic field: Proposing new correlations	Journal of Magnetism and Magnetic Materials, Vol. 594, 171889.	
5	Effectiveness and Number of Transfer Units of Plate Heat Exchanger Working with Fe ₃ O ₄ -SiO ₂ /Water Hybrid Nano fluids: An Experimental and ANN Predictions	Case Studies in Thermal Engineering, Vol. 53(1). 103949.	
6	Heat transfer, and friction factor of Fe ₃ O ₄ -SiO ₂ /Water hybrid Nano fluids in a plate heat exchanger: Experimental and ANN predictions	International Journal of Thermal Science, Vol. 195(1). 108608.	
7	Water Resource Management Policies: A Study for Sustained Growth of the Visakhapatnam Urban Area India	Journal of Applied Engineering Research. Vol. 10(2), pp 130-137	2023.
8	Experimental and Support Vector Machine Predictions of Entropy Generations and Exergy Efficiency of Fe ₃ O ₄ SiO ₂ /Water hybrid Nano fluid in a Plate Heat Exchanger	Heliyon, Vol. 9. e21730.	
9	Effect of Magnetic Field on the Thermal Conductivity and Viscosity of Magnetic Manganese oxide/ Ethylene Glycol Nano	Journal of Magnetism and Magnetic Materials, Vol.588(1). 171386.	

	Fluids: An Experimental and NNFS Approach		
10	Experimental Analysis and Levenberg-Marquardt Artificial Neural Network Predictions of Heat Transfer, friction factor, and efficiency of Thermosyphon Flat Plate Collector with MgO/Water Nano fluids	International Journal of Thermal Sciences, Vol. 194(12), 108555.	
11	Experimental Investigation of Heat Transfer and Effectiveness of Employing Water and Ethylene Glycol Mixture based Fe ₃ O ₄ Nano fluid in a Shell and Helical Coil Heat Exchanger	Thermal Science and Engineering Progress Vol.40, 101739.	
12	Heat Transfer Coefficient and Thermal Performance of Heat Pipe with R134a/Mineral Oil Nanodiamond+Fe ₃ O ₄ Hybrid Nano refrigerant	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering	
13	Exergy Efficiency and Entropy Analysis of MWCNT/Water Nano fluid in a Thermosyphon Flat Plate Collecto	Sustainable Energy Technologies and Assessments, Vol.55, 102911	
14	Performance Enhancement of Parabolic Trough Collector Solar Thermal Power Plants with Thermal Energy Storage Capability	Ain Shams Engineering Journal Vol.13, No.5, 10716.	
15	Experimental Investigation on the Performance of Hybrid Fe ₃ O ₄ Coated MWCNT/Water Nano fluid as a Coolant of a Plate Heat Exchanger	International Journal of Thermal Sciences. Vol. 171, 107249.	2022
16	Experimental Analysis of Thermo-hydraulic Performance of Water Based Nanodiamond-Fe ₃ O ₄ Hybrid Nano fluid in a Tube at Turbulent Flow	Heat Transfer Research, Vol. 52, No.12, pp 1-27.	2021
17	Effect of Core Rod Diameter on Wire Coil Inserts for Heat Transfer and Friction Factor of High-Prandtl Number Magnetic Fe ₃ O ₄ Nanofluids in a Fully Developed Laminar Flow	Heat Transfer Research Vol. 52, No.3, pp 49-75.	
18	Heat Transfer and Second Law Analysis of Ethylene Glycol Based Ternary Hybrid Nano fluid under Laminar Flow	ASME Journal of Thermal Science and Engineering Applications Vol. 13, No.5, pp 051021	
19	Heat Transfer, Energy and Exergy Efficiency Enhancement Nano diamond/Water Nab fluids Circulate in a Flat Plate Solar Collector	Journal of Enhanced Heat Transfer, Vol. 28, No.2, pp 57-99.	2020
20	“Properties, Heat Transfer, Energy Efficiency and Environmental Emissions	Diamond and Related Materials, 110, 117450	

	Analysis of Flat Plate Solar Collector Using Nano diamond Nano fluids		
21	Performance Enhancement of Solar Tower Power Plant: A Multi-objective Optimization Approach	Energy Conservation and Management, 225, 113378.	
22	Design Optimization and Performance Comparison of Solar Tower and Photovoltaic Power Plants	Energy, 199, 15 May 2020, 117450	
23	Investigation of Tribological Properties and Engine Performance of Polyol Ester Based Bio-lubricant - Commercial Motorbike Engine oil Blends	Journal of Automobile Engineering, Part D, 234(5), pp. 130-1317	
24	Design of Heat Exchanger with Combined Turbulator	Journal of Thermal Analysis and Calorimetry, 139, pp. 649-659	
25	Policies for Sustainable Growth of the SMEs: A Study in Indian Automotive Component Manufacturing Industry	International Journal of Business Continuity and Risk Management. 9(3), pp. 199-225,	2019

9- MAJOR RESEARCH PROJECTS

#	Research Project	Status (Now/Finished)	Funded by
1.	Heat Transfer and Exergy Efficiency Analysis of an Industrial Plate Heat Exchanger with Hybrid Nano fluids	Finished	MoE, KSA
2	Polices for Sustainable Water Resources: A study of Vishakhapatnam Urban Area India	Finished	DST, India
3	A Neuro-Genetic Approach for Constrained Optimization	Finished	UGC, India