

FACULTY PROFILE

VIGNESHKUMAR. D

Personal Details

Salutation: Dr.
Instructor Name: Vignesh Kumar. D
Designation: Assistant Professor (Senior Grade)
Department: MECHANICAL ENGINEERING - NEC
Date of Joining in NEC: 05-06-2009
Date of Joining in Present Post: 07-07-2014
Mobile Number: 9003943550
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Address for Communication

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Address Line 2: Salaipudhur **District:** Thoothukudi District
City: Kovilpatti **State:** Tamilnadu

Educational Qualifications

Sr	Name of the Degree	Specialization	Name of the Institute	Name of the University	Year of Passing
1	Ph.D	Mechanical Engineering	National Engineering College	Anna University	2019
2	M.E	Manufacturing Engineering	National Engineering College	Anna University	2006
3	B.E	Mechanical Engineering	National Engineering College	M.S. University	2004

Faculty Professional Experience

Sr	Name of Institute / Organizations	Designation	Date of Joining	To	Total Experience
1	National Engineering College	Asst. Professor (Senior Grade)	07-07-2014	31-03-2022	7 Years 9 Months
2	National Engineering College	Asst. Professor	05-06-2009	06-07-2014	5 Years 1 Months

Sr	Name of Institute / Organizations	Designation	Date of Joining	To	Total Experience
3	Francis Xavier Engineering College, Tirunelveli	Lecturer	03-07-2007	31-05-2009	1 Year 10 Months
4	Super Springs Pvt.Ltd, Coimbatore	Graduate Trainee	01-06-2006	30-06-2007	1 Year 1 Month

FDP/ Workshop/ Seminar/ Training/ Knowhow Program Attended

Sr	Name of the Event	Event Type	Name of the Institution or Organization	From	To
1	Hands on Training with "Industrial Automation Systems"	Faculty Development Program	AICTE Training and Learning -ATAL	15-11-2022	19-11-2021
2	Industry 4.0 and Smart Manufacturing: Opportunities and Challenges	Faculty Development Program	Dr.B.R.Ambedkar NIT, Jalandhar	20-07-2020	24-07-2020
3	Hybrid Manufacturing Processes: Opportunities and Challenges	Faculty Development Program	Dr.B.R.Ambedkar NIT, Jalandhar	06-07-2020	10-07-2020
4	Lean and Six Sigma in the Digital Age	Faculty Development Program	Vel Tech University, Avadi, Chennai	22-07-2019	23-07-2019
5	Entrepreneurship	Faculty Development Program	National Engineering College	03-12-2018	15-12-2018
6	Industrial Know How	Industrial Know-How Program	Diamler India Commercial Vehicles, Chennai	30-07-2018	04-08-2018
7	Pedagogy for Online and Blended Teaching – Learning Process (FDP201x)	Faculty Development Program	IIT, Bombay	03-05-2018	30-05-2018
8	Foundation Program in ICT for Education (FDP101x)	Faculty Development Program	IIT, Bombay	08-03-2018	12-04-2018
9	Technology Enabled Teaching Learning Process	Faculty Development Program	NITTTT- Chennai	27-05-2017	29-05-2017
10	Role of Mechatronics in Intelligent Robotics and Automotive Control	Faculty Development Program	IITM, Chennai	14-11-2016	19-11-2016
11	Optimization and its Applications	Faculty Development Program	NIT, Tiruchirappalli	10-11-2014	11-11-2014
12	Training of Evaluators / Resource person on Outcome Based Accreditation Phase – I and Phase - II	Faculty Development Program	NBA and National Engineering College	07-06-2014	16-06-2014

Sr	Name of the Event	Event Type	Name of the Institution or Organization	From	To
13	Teaching Methodology for Transmission System Design	Faculty Development Program	KLN College of Engineering, Madurai	18-03-2011	19-03-2011
14	Recent Advances in Modeling and Simulation of Joining of Materials	Faculty Development Program	NIT, Tiruchirappalli	29-12-2008	10-01-2009
15	Introduction to Robotics	National Workshop	IIT Bombay at Mepco Schlenk Engineering College, Sivakasi	16-03-2015	17-03-2015
16	current trends in advanced polymer composites	National Workshop	Kamarajar College of Engineering, Virudhunagar	04-12-2008	05-12-2008
17	Training Program on "CNC Lathe Machine"	Training	MTAB Technology Center, Chennai	20-11-2007	24-11-2007

International and National Conferences Attended

Sr	Name of the Conference	Event Type	Name of the Institution or Organization	Title of the Paper	Authors
1	4th International Conference On Advances In Mechanical Engineering (ICAME-2022)	International Conference Presentation	SRM University Chennai	Mechanical Characterization and Frictional Wear Behavior Analysis on Nano Tungsten Carbide and Molybdenum Disulphide Particles Reinforced Al	Vignesh Kumar D, D Ravindran, Arul Selvan S, Arul Marshal Moschi A, Balamurugan P, Veeraajay C
2	Int. Conference On Novel Engineering Materials For Biomedical, Energy, Environment, Sensing And Other Applications-2021 (Icon-Bees'2)	International Conference Presentation	NIT Tiruchirappalli	Frictional Wear Behaviour of Aluminium 7075 reinforced with nano tungsten carbide and molybdenum disulphide hybrid metal matrix composite	M. Vishnu Vinayak, D. Vignesh Kumar*, S. Arulselvan, C. Veera Ajay and A. Arul Marcel Moschi
3	3rd International Conference On Recent Advances in Material Processing Technology (RAMPT'13)	International Conference Participation	National Engineering College, Kovilpatti	Decision Making in Multi-Objective Facility Layout Design Selection Problem	Lenin N, Siva Kumar M, Ravindran D, Vignesh Kumar D and Islam M N

Faculty Research Publications

Sr	Title of the Paper	Name of the Journal	Year of Publication	Authors	DOI (Digital Object Identifier System)
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Sr	Title of the Paper	Name of the Journal	Year of Publication	Authors	DOI (Digital Object Identifier System)
1	Minimization of total manufacturing cost of a knuckle joint assembly by means of optimal tolerance allocation using various optimization algorithms	Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering	2022	D Vignesh Kumar, D Ravindran, Lenin N, Siva Kumar M and Arul Marcel Moshi A	https://doi.org/10.1177/09544070221078657
2	PROCESS-PARAMETER OPTIMIZATION OF WEDM WITH INCONEL 825 ALLOY USING GRA	Materials and Technology	2021	Arulselvan Subburaj, Ravindran Durairaj , Arul Marcel Moshi Antony Joseph Decruz , Vignesh Kumar Dharmaraj	https://doi.org/10.17222/mit.2020.120
3	Comparative analysis of briquettes obtained from biomass and charcoal	Materials Today: Proceedings	2021	J Ajith Kumar, K Vinoth Kumar, M Petchimuthu, S Iyahraja, D Vignesh Kumar	https://doi.org/10.1016/j.matpr.2020.02.918
4	Tolerance allocation of complex assembly with nominal dimension selection using Artificial Bee Colony algorithm	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2019	D Vignesh Kumar, D Ravindran, N Lenin, M Siva Kumar	https://doi.org/10.1177/0954406218756439
5	Solution for bi-objective single row facility layout problem using artificial bee colony algorithm	European Journal of Industrial Engineering	2018	Lenin Nagarajan, Siva Kumar Mahalingam, Selvakumar Gurusamy, Vignesh Kumar Dharmaraj	https://doi.org/10.1504/EJIE.2018.090619
6	Optimum tolerance synthesis of simple assemblies with nominal dimension selection using genetic algorithm	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	2016	D Vignesh Kumar, D Ravindran, M Siva Kumar, Mohammad Nazrul Islam	https://doi.org/10.1177/0954406215613366
7	A simple heuristic for linear sequencing of machines in layout design	International Journal of Production Research	2011	M Siva Kumar, Mohammad Nazrul Islam, N Lenin, D Vignesh Kumar, D Ravindran	https://doi.org/10.1080/00207543.2010.535860
8	Process parameter optimization in ARC welding of dissimilar metals	Science & Technology Asia	2010	N Lenin, M Sivakumar, D Vigneshkumar	https://ph02.tci-thaijo.org/index.php/SciTechAsia/article/view/41279

Sr	Title of the Paper	Name of the Journal	Year of Publication	Authors	DOI (Digital Object Identifier System)
9	Optimum tolerance synthesis for complex assembly with alternative process selection using bottom curve follower approach	International Journal of Engineering	2009	M Siva Kumar, MN Islam, N Lenin, D Vignesh Kumar	https://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.170.3690&rep=rep1&type=pdf#page=14

Product Development Activities

Sr	Product Title	From	To	Funds Received	IPR Status
1	Tractor Rear Loader	01-12-2018	31-12-2019	₹ 2,50,000.00	Published
2	Salt Harvester	01-11-2020	30-11-2021	₹ 2,50,000.00	Filed
3	Matrix Row Seed Planter for Multiple Seeds	01-06-2020	31-03-2022	₹ 2,00,000.00	
4	Tender Coconut waste to Fuel/ Soil Alternatives	01-12-2021	31-03-2022	₹ 2,50,000.00	

Membership in Professional Societies

Sr	Name of the Society / Organization	Type of Membership
1	Institution of Engineers	Life Member
2	Indian Society for Technical Education	Life Member
3	Society for Manufacturing Engineers	Life Member
4	Society for Automotive Engineers	Life Member