

FACULTY PROFILE

RAMANAN. P

Personal Details

Salutation: Dr.
Instructor Name: Ramanan. P
Designation: Assistant Professor (Senior Grade)
Department: MECHANICAL ENGINEERING - NEC
Date of Joining in NEC: 06-06-2008
Date of Joining in Present Post: 09-04-2011
Mobile Number: 9976625388
College Id: CEST002
College Email Id: ramanan_ces@nec.edu.in
Unique Staff Id: 1-455253001



Address for Communication

Address Line 1: 331/51B **Pincode:** 628501
Address Line 2: Vakkil Street **District:** Thoothukudi
City: Kovilpatti **State:** Tamil Nadu

Educational Qualifications

Sr	Name of the Degree	Specialization	Name of the Institute	Name of the University	Year of Passing
1	B.E	Mechanical Engineering	Arulmigu Kalasalingam College of Engineering	Madurai Kamaraj University	1998
2	M.E	CAD/CAM	MEPCO SCHLENK Engineering College	Anna University, Chennai	2004
3	Ph.D	Solar Photovoltaics	National Engineering College	Anna University, Chennai	2021

Faculty Professional Experience

Sr	Name of Institute / Organizations	Designation	Date of Joining	To	Total Experience
1	National Engineering College, Kovilpatti	Assistant Prof (SG)	07-04-2011		11 Years

Sr	Name of Institute / Organizations	Designation	Date of Joining	To	Total Experience
2	National Engineering College, Kovilpatti	Lecturer	06-06-2008	06-04-2011	2 Years 10 months
3	P.S.R. Engineering College, Sivakasi	Lecturer	13-09-2000	23-05-2008	7 Years 8 months

FDP/ Workshop/ Seminar/ Training/ Knowhow Program Attended

Sr	Name of the Event	Event Type	Name of the Institution or Organization	From	To
1	Research Opportunities In Solar Thermal	National Workshop	National Engineering College, Kovilpatti	12-12-2012	12-12-2012
2	Latest Developments in Solar Photovoltaic Technology	International Seminar	PSG Institute of Advanced studies	07-08-2013	08-08-2013
3	New Frontiers and Advancements of Tribology	National Workshop	National Engineering College, Kovilpatti	25-02-2014	25-02-2014
4	Empowering Indian Engineering Education for Global Expectations	Training	National Engineering College, Kovilpatti	07-11-2014	08-11-2014
5	Next Generation Technologies for Sun-Wind Energy Conversion	National Seminar	National Engineering College, Kovilpatti	28-12-2014	28-12-2014
6	Advances in Industrial Tribology	National Seminar	National Engineering College, Kovilpatti	11-02-2015	12-02-2015
7	Value Engineering	National Workshop	Thiagarajar College of Engineering, Madurai	19-02-2015	19-02-2015
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	Role of mechatronics in intelligent robotics and automotive control	Short Term Training Program	IIT, Madras	14-11-2016	19-11-2016
10	Introduction to research	Course	IIT, Madras	02-01-2016	28-02-2016
11	Frontiers in materials research for Energy application	Short Term Training Program	Thiyagarajar Coilege of Engineering, Madurai	11-12-2017	17-12-2017
12	Technology enabled teaching learning process	Training	NITTTTR	27-05-2017	29-05-2017
13	Foundation Program in ICT for Education (FDP101X)	Faculty Development Program	IIT, Bombay	08-03-2018	12-04-2018

Sr	Name of the Event	Event Type	Name of the Institution or Organization	From	To
14	Pedagogy for Online and Blended Teaching-Learning Process (FDP201X)	Faculty Development Program	IIT, Bombay	03-05-2018	30-05-2018
15	Application of CFD techniques in Heat transfer and Energy systems	National Workshop	NIT, Trichy	28-06-2019	29-06-2019
16	Recent Developments in Solar Energy Recovery and Storage Technologies	Faculty Development Program	St. Joseph's college of Engineering, Chennai	03-08-2020	08-08-2020
17	Introduction to thermal analysis	Training	Entuple Technologies Pvt. Ltd., Bangalore	02-06-2020	02-06-2020
18	Inculcating Universal Human Values in Technical Education	National Workshop	All India Council for Technical Education(AICTE)	19-10-2020	23-10-2020
19	Recent Research Trends and Future Research Directions in Solar Energy Technologies	National Workshop	National Institute of Technology, Tiruchirappalli	18-05-2021	22-05-2021
20	NIRF INDIA RANKINGS - 2022 For Higher Educational Institutions	National Workshop	Institute for Academic Excellence, Hyderabad	05-01-2022	06-01-2022
21	Software Tools used in Finite Element Analysis (FEA)	Short Term Training Program	Kalasalingam Academy of Research and Education	27-07-2020	01-08-2020
22	Multi-Scale Computational Fluid Dynamics: Fundamentals and Applications	Short Term Training Program	Dr. B. R. Ambedkar National Institute of Technology Jalandhar	21-08-2020	25-08-2020
23	Innovation, Start-up and Technology	National Workshop	National Institute of Technology, Tiruchirappalli	24-01-2022	29-01-2022
24	Automation in Manufacturing	Faculty Development Program	NPTEL-AICTE	25-09-2020	16-12-2020
25	Solar Energy Engineering and Technology	Faculty Development Program	NPTEL-AICTE	15-07-2021	08-10-2021

International and National Conferences Attended

Sr	Name of the Conference	Event Type	Name of the Institution or Organization	Title of the Paper	Authors	From	To
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Sr	Name of the Conference	Event Type	Name of the Institution or Organization	Title of the Paper	Authors	From	To
1	International Conference Responsive Supply Chain and Organizational Competitiveness (RSC-2004)–	International Conference Presentation	Coimbatore Institute of Technology, Coimbatore	An Investigation of Local Improvement on Single Machine Scheduling Problems	R. Maheswaran, S.G. Ponnambalam, P. Ramanan, and R. Jeyabhadhuri	05-01-2004	07-01-2004
2	Emerging Trends in Materials, Manufacturing and Design	National Conference Participation	MEPCO Schlenk Engineering College, Sivakasi.	Finite Element Analysis on Torsion of Noncircular Smart Shaft	A. Vasanthanathan, P.Ramanan	08-02-2007	09-02-2007
3	Recent Advancements in Mechanical Engineering	National Conference Participation	VV college of Engineering, Tirunelveli.	Performance and comparative study of 10 kWp solar photovoltaic system	P. Ramanan	06-04-2016	06-04-2016
4	Design, Materials, Cryogenics and Constructions (ICDMC'19)	International Conference Presentation	Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Temperature regulation of CIS photovoltaic module using eutectic salt hydrate as PCM	Ramanan P, Kalidasa Murugavel K, Hari Kishan D, and Suriyanarayanan G	28-03-2019	29-03-2019
5	Sustainable Materials and Innovative Techniques	International Conference Participation	Kamaraj College of Engineering and Technology, Virudhunagar	Performance investigation of photovoltaic module integrated with eutectic PCM	Robin W, Ramanan P, Sheik Abdullah Sheriff H, Vetrivel P, Vignesh P V	18-03-2022	19-03-2022

FDP/ Workshop/ Seminar/ Conference Programs Organized

Sr	Name of the Event	Event Type	Nature of funding	Name of the Funding Agency	Amount received from funding Agency	Role	Venue	From	To
1	Recent Advancements In Renewable Energy	National Seminar	Fund Received from external funding agency	MNRE	₹ 35,000.00	Co-Ordinator	National Engineering College	05-08-2010	06-08-2010
2	Recent Advances In Solar Power Technology	National Seminar	Fund Received from external funding agency	MNRE	₹ 50,000.00	Co-Coordinator	National Engineering College, Kovilpatti	21-10-2010	22-10-2010

Sr	Name of the Event	Event Type	Nature of funding	Name of the Funding Agency	Amount received from funding Agency	Role	Venue	From	To
3	Renewable and Green Energy Sources and Technologies (RGEST)	National Workshop	Fund Received from external funding agency	MNRE	₹ 50,000.00	Co-Coordinator	National Engineering College, Kovilpatti	19-05-2011	20-05-2011
4	Research Opportunities In Solar Thermal	National Workshop	Fund Received from external funding agency	MNRE	₹ 50,000.00	Co-Ordinator	National Engineering College, Kovilpatti	12-12-2012	12-12-2012
5	Next Generation Technologies for Sun-Wind Energy Conversion	National Seminar	Fund Received from external funding agency	MNRE	₹ 85,000.00	Co-Coordinator	National Engineering College, Kovilpatti	28-02-2014	28-02-2014
6	Solar Photovoltaic and Thermal Energy - State of Art Technology for Rural Development	National Seminar	Fund Received from external funding agency	MNRE	₹ 91,000.00	Co-Coordinator	National Engineering College, Kovilpatti	11-03-2016	11-03-2016
7	3rd International Conference on Recent Advances in Material Processing Technology (RAMPT'13)	International Conference	Fund Received from external funding agency	BRNS, DST, DRDO, MNRE, CSIR, ISTE	₹ 4,25,000.00	Treasurer	National Engineering College, Kovilpatti	07-01-2013	09-01-2013

Faculty Research Publications

Sr	Title of the Paper	Name of the Journal	Year of Publication	Authors	DOI (Digital Object Identifier System)
1	Performance enhancement of a building-integrated photovoltaic module using phase change material	Energy	2018	A. Karthick, K. Kalidasa Murugavel, P. Ramanan	https://doi.org/10.1016/j.energy.2017.10.090
2	Performance analysis and energy metrics of grid-connected photovoltaic systems	Energy for Sustainable Development	2019	Ramanan P., Kalidasa Murugavel K., Karthick A.	https://doi.org/10.1016/j.esd.2019.08.001

Sr	Title of the Paper	Name of the Journal	Year of Publication	Authors	DOI (Digital Object Identifier System)
3	Thermal and electrical performance evaluation of PV/T collectors in Southern India	International Journal of Ambient Energy	2019	N. Lenin, P. Sivamurugan, B. Srimanickam, P. Ramanan & M. Siva Kumar	https://doi.org/10.1080/01430750.2018.1563817
4	Investigation of a binary eutectic mixture of phase change material for building integrated photovoltaic (BIPV) system	Solar Energy Materials and Solar Cells	2019	A. Karthick, K. Kalidasa Murugavel, Aritra Ghosh, K. Sudhakar, P. Ramanan	https://doi.org/10.1016/j.solmat.2019.110360
5	Temperature Regulation of CIS Photovoltaic Module Using Eutectic Salt Hydrate as PCM	Proceedings of ICDMC 2019, Lecture Notes in Mechanical Engineering	2020	P. Ramanan, K. Kalidasa Murugavel, D. Hari Kishan, and G. Suriyanarayanan	https://doi.org/10.1007/978-981-15-3631-1_60
6	Performance evaluation of building-integrated photovoltaic systems for residential buildings in southern India	Building Services Engineering Research & Technology	2020	P Ramanan, K Kalidasa Murugavel, A Karthick and K Sudhakar	https://doi.org/10.1177%2F0143624419881740
7	Performance enhancement of copper indium diselenide photovoltaic module using inorganic phase change material	Asia-Pacific Journal of Chemical Engineering	2020	Alagar Karthick, Pichandi Ramanan, Aritra Ghosh, Balasubramaniam Stalin, Ramalingam Vignesh Kumar & Irusappan Baranilingesan	https://doi.org/10.1002/apj.2480
8	Performance enhancement of photovoltaic module by integrating eutectic inorganic phase change material	ENERGY SOURCES, PART A: RECOVERY, UTILIZATION, AND ENVIRONMENTAL EFFECTS	2020	Ramanan Pichandi, Kalidasa Murugavel Kulandaivelu, Karthick Alagar, Hari Kishan Dhevaguru, and Suriyanarayanan Ganesamoorthy	https://doi.org/10.1080/15567036.2020.1817185
9	Experimental study on the thermal performance of a solar air heater integrated with multi-geometry arrangements over the absorber plate	Environmental Science and Pollution Research	2022	Vijayakumar Rajendran, Harichandran Ramasubbu, Jaya Venkatesh Rajarathinam, Ramanan Pichandi	https://doi.org/10.1007/s11356-022-18830-x

Funded Research Project Details

Sr	Name of the Project	Principal Investigator	Co-Investigator	Amount of Fund Received	Funding Agency	Project Duration	Present Status
1	Labview Integrated Performance Monitoring and Analyzing Energy Data of Co-Located PV Power Plants with Different Technologies	Dr. K. Kalidasa Murugavel	P. Ramanan, S. Arun Kumar	₹ 12,00,000.00	AICTE (RPS)	3 years	Completed

Product Development Activities

Sr	Product Title	From	To	Funding Agency	Funds Received	IPR Status
1	Portable Automatic Multi Snacks Maker	10-11-2020	09-11-2021	DST (NEC NewGen IEDC)	₹ 2,00,000.00	Filed