



Sri Ramakrishna Institute of Technology

(An Autonomous Institution)

(Accredited by NAAC with "A" Grade)

Pachapalayam, Perur Chettipalayam, Coimbatore – 641 010

www.srit.org :: Phone – 0422-2605577



Faculty Profile

Full name with Qualification, Designation and

Department:

Dr. M Veeramanikandan , M.E., Ph.D.,

Assistant Professor,

Mechanical Engineering



Date of birth	:	02.06.1993	Gender	:	Male
Nationality	:	Indian	Marital status	:	Married
Address for correspondence	:	2/133B, Viswanathan Colony, Kalampalayam, theetipalyam Post, Coimbatore-10	Permanent address	:	68D, Nehruji Nagar, Vedasandur, Dindigul - 624710
Mobile no	:	+91 8883144652	e-mail (official)	:	veeramanikandan.me@srit.org
Landline	:	-	e-mail (personal)	:	veera.thermal @gmail.com
Date of joining	:	26.05.2016	Post of joining	:	Assistant Professor
No of promotions since D.O.J	:	0	Present post	:	Assistant Professor
Present pay scale	:	15600-39100	Gross pay	:	38,666
Employee ID	:	1515	Bank account No. (Salary credited)	:	500101010981094
P.F. No	:	TE288 TN /CBE/56764/762	Group Insurance No	:	AG00059675000102
PAN Number	:	BBZPV2958P	Aadhar Number	:	231306320292
AICTE ID	:	1-3203364810	AICTE Institution ID	:	1-7841521

Educational Qualification

Degree	Specialization	Year of Passing	Name of the College	Name of the University	Class Obtained
UG	Mechanical Engineering	2014	Apollo Engineering College, Chennai	Anna University, Chennai	First Class
PG	Thermal Engineering	2016	Sri Ramakrishna Engineering College, Coimbatore	Anna University, Chennai	First Class
Ph.D	Mechanical Engineering	2022	Coimbatore Institute of Engineering and Technology, Coimbatore	Anna University, Chennai	First Class
Others					

Registration for Ph.D. with area of interest:

Solar Photovoltaic Thermal System

Year of Ph.D. Registration: 2017

Year of Ph.D. Completed: 2022

Thesis Title: Performance study of Sandwich Glazed Photovoltaic Thermal Collector

Supervisor Recognition Number: 4120148

Ph.D. Scholar Details

S.No.	Name of the scholar	Registration details	College	Status
Nil				

Academic Experience

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
Sri Ramakrishna Institute of Technology, Coimbatore	Assistant Professor	09/06/2016	Present	7	5	28
Total				7	5	28

Industrial Experience

Name of the Organisation	Designation	Nature of Work	Joining Date	Relieving Date	Experience		
					Years	Months	Days
Nil							
Total					1	3	6

Courses Handled

Academic Year	Semester	Course Code	Course Name	Type of Course (T / L)	Pass Percentage
2023-2024	III	20ME005	Engineering thermodynamics	T	--
	V	20ME016	Engineering Metrology and Quality Control	T	--
	V	20ME019	Metrology Laboratory	L	--
2022-2023	VII	20MEG01	Total Quality Management	T	100
	I		Engineering Graphics	L	100
	VIII		Power Plant Engineering	T	100
2021-2022	III	20ME004	Fluid Mechanics and Machinery	T	88
	VII	UMEC017	Final Year Project-I	L	100
		UMEC102	Power Plant Engineering	T	98
	VIII	UMEC018	Final Year Project - II	L	100
2020-2021	IV	UMEC004	Thermal Engineering	T	82
	VII	UMEC014	Integrated Design Project	T	100
	VII	UMEC015	Integrated Design Project Lab	L	100
2019-2020	V	UMEC007	Heat and Mass Transfer	T	74
	V	UICH003	Economics for Engineers	T	100
	VI	UMEC201	Unconventional Machining Process	T	100
	VIII	MG6863	Engineering Economics	T	100
2018-2019	III	UCEC002	Fluid Mechanics and Machinery	T	32
	VII	ME6701	Power Plant Engineering	T	100
	VIII	MG6863	Engineering Economics	T	100
	VIII	ME6811	Project Work	L	100
2017-2018	VII	ME6301	Engineering Thermodynamics	T	74
	VII	ME6713	Comprehension	L	100

	VI	ME6604	Gas Dynamics and Jet Propulsion	T	86
	VIII	ME6863	Engineering Economics	T	100
2016-2017	III	ME6301	Engineering Thermodynamics	T	74
	III	ME6301	Engineering Thermodynamics	T	72
	IV	ME6404	Thermal Engineering	T	68

Projects Guided

Academic Year	Semester	Project Title	UG / PG
2022-2023	VIII	Design, Fabrication, analysis of Bi-fluid of Photovoltaic Thermal System	UG
2021-2022	VIII	Design, Fabrication, analysis of wind water seering system	UG
2020-2021	VIII	Design, Fabrication, analysis of Thermal nozzle for 3D printing moulding	UG
2019-2020	VIII	Design, Fabrication, analysis of Photovoltaic Thermal System integrated with shell and tube heat exchanger	UG
2018-2019	VIII	Design, Fabrication, analysis of glazed Photovoltaic Thermal Collector	UG
2017-2018	VIII	Design, Fabrication, analysis of spiral tube Photovoltaic Thermal System	UG
2016-2017	VIII	Design, Fabrication, analysis of Photovoltaic Thermal System	UG
2016-2017	VIII	Design, Fabrication, analysis of spiral tube collector	UG

Publications

Publications	SCI / Scopus / Web of Sciences	Others
Journal	10	--
Conferences	22	

Journal Publications (IEEE format)

1. Thirunavukkarasu R, Periyasamy S, Sathish D, and Veeramanikandan M. "Exploratory of novel thermal barrier coating on diesel engine performance." Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering 237, no. 5 (2023): 2083-2092

2. M.Veeramanikandan, T.V.Arjunan and N.Gunasekar, Rubesh Raja V “Design optimization and experimental evaluation of novel photovoltaic modules in comparison with a conventional photovoltaic module”, *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects* (Taylor & Francis), Volume 44, 2022 - Issue 4, <https://doi.org/10.1080/15567036.2022.2123870>.
3. Dhandapani Sathish, Selvaraj Jegadheeswaran, Murugan Veeramanikandan, “Enhancing the thermo-economic performance of mobile solar desalination system with dual reflectors, phase change materials and insulator cover: Experimental investigations”, *Applied Thermal Engineering* (Elsevier), Volume 217, 2022, pp.119210.
4. M.Veeramanikandan, T.V.Arjunan and N.Gunasekar, “Numerical simulation and experimental validation of a novel Sandwich Glazed Photovoltaic Thermal (SGPV/T) water heating system”, *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects* (Taylor & Francis), Volume 44, 2022- Issue 4.
5. M.Veeramanikandan, D.Sathish, L.Jeryraj Kumar and S.Boovendrarvarman, “Effective study on developments in photovoltaic thermal (PV/T) water heating system”, *Materials Today: Proceedings* (Elsevier), <https://doi.org/10.1016/j.matpr.2020.10.667>.
6. D.Sathish, M.Veeramanikandan, S.Boovendrarvarman and L.Jeryraj Kumar, “Influences of welding parameters on friction stir welding of AA 6063 Al-alloy and copper plates – An experimental study”, *Journal of Physics: Conference series - IOPscience*, 1706(2020) 012173. <https://doi.org/10.1088/1742-6596/1706/1/012173>.
7. M.Veeramanikandan, T.V.Arjunan and P.Jidhesh, “Experimental investigation of sandwich glazed solar photovoltaic module”, *Materials Today: Proceedings* (Elsevier), Volume 27, Part 1, 2020, Pages 136-139. <https://doi.org/10.1016/j.matpr.2019.09.069>, 2019.
8. D.Sathish, M.Veeramanikandan and R.Tamilselvan, “Design and fabrication of single slope solar still using metal matrix structures as energy storage”, *Materials Today: Proceedings* (Elsevier), Volume 27, Part 1, 2020, Pages 1-5. <https://doi.org/10.1016/j.matpr.2019.07.709>, 2019.
9. Sathish.D, Veeramanikandan.M and Tamilselvan R, “Experimental Study on Portable Mini Solar Pond Using Salt and Pebbles”, *International Journal of Chemical Sciences*, Vol.15 No.2, 2017.
10. Karthickmunisamy.T, Mohan.A, Veeramanikandan.M, “Experimental investigation of tilted wick solar still using fabrics” *Australian Journal of Mechanical Engineering* (Taylor & Francis), Vol.17, No 3, pp 185-190, DOI: 10.1080/14484846.2017.1334306, 2017.
11. Veeramanikandan.M, Sathish.D and Tamilselvan.R, “Effective Study on Domestic Application of Hybrid PhotovoltaicThermal (PV/T) System”, *International Journal of ChemTech Research*, Vol.10 No.5, pp 699-702, 2017.

12. Sathish.D, Veeramanikandan.M, Karthickmunisamy.T, Thirunavukkarasu.R and Tamilselvan.R, “Experimental investigation on portable mini solar pond using sodium chloride salt”, ICECCT’17, IEEE, DOI:10.1109/ICECCT.2017.8118003, 2017.
13. Sathish.D, Veeramanikandan.M, Thirunavukkarasu.R, Tamilselvan.R and Karthickmunisamy.T, “Thermal performance on portable mini Solar Pond using Nacl and Coal Cinder”, Applied Mechanics and Materials, ISSN: 1662-7482, Vol. 877, pp 430-435, 2017.
14. Sathish.D, Veeramanikandan.M, Thirunavukkarasu.R, Tamilselvan.R and Karthickmunisamy.T, “Performance of Solar Water Heating System on Different Tube Arrangements (Review)”, International Journal of ChemTech Research, Vol.10 No.3, pp 705-713, 2017.
15. Thirunavukkarasu.R, Tamilselvan.R, Karthickmunisamy.T, Veeramanikandan.M and Sathish.D, “Experimental Investigation of Performance and Emissions Characteristics of a Diesel Engine with Pongamia Biodiesel and Diesel Blends”, Applied Mechanics and Materials, ISSN: 1662-7482, Vol. 877, pp 397-402, 2017.

Conference Publications (IEEE format)

1. D.Sathish, M.Veeramanikandan and R.Thirunavukkarasu, “Experimental Investigation of Thermal and Salt Concentration Profile in a Salinity Gradient Solar Pond”, Thirud International Conference on Advances in Physical Sciences and materials(ICAPSM 2022), KPR Institute of Engineering and Technology, Coimbatore.
2. M.Veeramanikandan, D.Sathish, L.Jeryraj Kumar and S.Boovendrarvarman, “Effective study on developments in photovoltaic thermal (PV/T) water heating system”, ICRAMM’20, Velalar College of Engineering & Technology, Erode.
3. D.Sathish, M.Veeramanikandan, S.Boovendrarvarman and L.Jeryraj Kumar, “Influences of welding parameters on friction stir welding of AA 6063 Al-alloy and copper plates – An experimental study”, International Conference on Advances in Physical Sciences and materials(ICAPSM 2020), SNS College of Technology, Coimbatore.
4. Veeramanikandan.M, Abdul Rahman.J, Rahul.M and Sathish.D, “A review on solar air collector system using various porous media”, ICCCES’20, MEA Engineering college, Kerala.
5. Sathish.D, Sathishkumar.T, Srivikram.R, Sanjaikumar.G and Veeramanikandan.M, “Portable resistance spot welding machine”, ICCCES’20, MEA Engineering college, Kerala.
6. Veeramanikandan.M, Arjunan T V and Jithesh P, “Experimental investigation of sandwich glazed solar photovoltaic module”, ICRAMM’19, KLE Dr.M.S. Sheshgiri College of Engineering and Technology, Belagavi.

7. Sathish D, Veeramanikandan.M and Tamilselvan R, "Design and fabrication of single slope solar still using metal matrix structures as energy storage", ICRAMM'19, KLE Dr.M.S. Sheshgiri College of Engineering and Technology, Belagavi.
8. Veeramanikandan.M and Arjunan T V, "Experimental Investigation on Sandwich Glazed Photovoltaic Thermal Water Heating System", ICEE'19, Hindusthan college of Engineering and Technology, Coimbatore.
9. Veeramanikandan.M, Karthickmunisamy.T, Tamilselvan.R, Sathish.D and Thirunavukkarasu.R, "Effective Study on Advances in Photovoltaic Thermal (PV/T) Water Heating System", ICRAMMCE'17, Marri Laxman Reddy Institute of Technology and Management, Hyderabad.
10. Veeramanikandan.M, Sathish.D, Karthickmunisamy.T, Thirunavukkarasu.R and Tamilselvan.R, "Study on Developments in Photovoltaic Thermal (PV/T) Water Heating", ICACCS'17, Sri Eshwar College of Engineering, Coimbatore.
11. Veeramanikandan.M, Jidhesh.P and Arjunan.T.V, "Experimental Investigation on Geometrically Modified Solar Photovoltaic Module Comparatively", ICROMEK'17, Government College of Engineering, Salem.
12. Veeramanikandan.M, Arjunan.T.V and Jidhesh.P, "Experimental Investigation on Sandwich glazed Photovoltaic Thermal (PV/T) System", ICRSE'17, Hindusthan College of Engineering and Technology, Coimbatore.
13. Veeramanikandan.M, Peratchiselvan.P, Thakshnamoorthy.K.S, Vetriselvan.B and Vignesh.M, "Study on Application of Solar Hybrid Photovoltaic-Thermal (PV/T) System", ICABCMS'17, Selvam College of Technology, Namakkal.
14. Sathish.D, Veeramanikandan.M, Thirunavukkarasu.R, Tamilselvan.R and Karthickmunisamy.T, "Thermal performance on portable mini Solar Pond using NaCl and Coal Cinder", ICRAMMCE'17, Marri Laxman Reddy Institute of Technology and Management, Hyderabad.
15. Sathish.D, Veeramanikandan.M, Thirunavukkarasu.R, Tamilselvan.R and Karthickmunisamy.T, "Experimental investigation on portable mini Solar Pond using Sodium Chloride salt and Coal Cinder", ICACCS'17, Sri Eshwar College of Engineering, Coimbatore.
16. Sathish.D, Veeramanikandan.M, Thirunavukkarasu.R, Tamilselvan.R and Karthickmunisamy.T, "Experimental Investigation of Portable Mini Solar Pond using Sodium Chloride Salt", ICECCT'17, SVS College of Engineering, Coimbatore.
17. Karthickmunisamy.T, Sathish.D, Veeramanikandan.M, Thirunavukkarasu.R and Tamilselvan.R, "Relative Study of steel Solar Pond with Sodium Chloride and Gravels", ICRAMMCE'17, Marri Laxman Reddy Institute of Technology and Management, Hyderabad.

18. Karthickmunisamy.T, Sathish.D, Veeramanikandan.M, Thirunavukkarasu.R and Tamilselvan.R, “Comparative Study of Fabricated steel Solar Pond with NaCl and Pebbles”, ICACCS’17, Sri Eshwar College of Engineering, Coimbatore.
19. Thirunavukkarasu.R, Tamilselvan.R, Karthickmunisamy.T, Veeramanikandan.M and Sathish.D, “Experimental Investigation of Performance and Emissions Characteristics of a Diesel Engine with Pongamia Biodiesel and Diesel Blends” , ICRAMMCE’17, Marri Laxman Reddy Institute of Technology and Management, Hyderabad.
20. Thirunavukkarasu.R, Tamilselvan.R, Karthickmunisamy.T, Veeramanikandan.M and Sathish.D, “Investigation of Emissions and Performance Characteristics of a CI Engine with Pongamia Pinnata oil Methyl Ester and Diesel Blends”, ICACCS’17, Sri Eshwar College of Engineering, Coimbatore.
21. Tamilselvan.R, Thirunavukkarasu.R, Sathish.D, Karthickmunisamy.T and Veeramanikandan.M, “Effect of Low Proportion Kapok Biodiesel Blend on Performance, Combustion and Emission Characteristics of a Diesel Engine”, ICRAMMCE’17, Marri Laxman Reddy Institute of Technology and Management, Hyderabad.
22. Tamilselvan.R, Thirunavukkarasu.R, Sathish.D, Karthickmunisamy.T and Veeramanikandan.M, “Biodiesel Production from Ceiba Pentandra Oil and Its Characterization”, ICACCS’17, Sri Eshwar College of Engineering, Coimbatore.

Books / Book Chapters (IEEE format)

1. Veeramanikandan.M “Sandwich Glazed Photovoltaic Thermal Collector. Performance Study”, GRIN Verlag Publisher, ISBN: 9783346794413, 2022
2. Veeramanikandan.M, and Sathish.D “Computational Fluid Dynamics Laboratory Manual”, CBS Publisher, ISBN: 9789390046065, 2020
3. Sathish.D, Thirunavukkarasu and Veeramanikandan.M, “Engineering Workshop Practices Laboratory Manual (Mechanical): ISBN - 978-1645461708, 2019
4. Sathish.D and Veeramanikandan.M, “Mechatronics Lab Manual”, Scholar’s press publisher, ISBN-978-6202314121, 2018
5. Sathish.D, Subramanian.V and Veeramanikandan.M, “Computer Aided Drafting and Computer Aided Manufacturing Lab Manual”, Create space Independent Publishing Platform, ISBN-13: 978-1721842773, 2018

Sponsored Research

Project Title	Funding Agency	Amount Rs.	Duration
Nil			

Consultancy

S. No.	Organization/ Agency	Nature of Work	Amount in Rs.	Year
Nil				

Workshops / Seminars attended

1. One day workshop on “Recent Development in Renewable Energy” held on January 27, 2022, conducted by Renewable Energy Club, School of Studies of Engineering and Technology, Guru Ghasidas Vishwavidyala (A Central University) Bilaspur
2. Two day’s TEQIP Sponsored workshop on “Laser Micro Processing for Bio-Medical Applications” held on March 15-16, 2021, conducted by Department Mechanical Engineering, Coimbatore Institute of Technology, Coimbatore
3. One day CSIR Sponsored workshop on “Microwave Processing of Materials and Applications in manufacturing Industries” held on January 08, 2020, conducted by Department Mechanical Engineering, Coimbatore Institute of Engineering and Technology, Coimbatore
4. One day workshop on “Mini Bike Design and Fabrication Techniques” held on August 09, 2019, conducted by Department of Automobile Engineering, Karpagam College of Engineering, Coimbatore
5. One day workshop on “Transforming Vital Ideas into Realistic 3D Model: Rapid Prototyping” held on October 03, 2017, conducted by Department of Mechanical Engineering, Sri Ramakrishna Institute of Technology, Coimbatore
6. One day workshop on “Industrial Automation” held on November 11, 2016, conducted by Department of Mechanical Engineering, Sri Ramakrishna Institute of Technology, Coimbatore
7. One day workshop on “Automotive Transmission Systems” held on March 03, 2017, conducted by Department of Mechanical Engineering, Sri Ramakrishna Institute of Technology, Coimbatore
8. One day workshop on “Modern Trends in Automobile Technologies” held on February 02, 2017, conducted by Department of Mechanical Engineering, Sri Ramakrishna Institute of Technology, Coimbatore
9. Three days’ workshop on “IC Engines Overhauling” held on February 20 - 22, 2017, conducted by Department of Mechanical Engineering, Sri Ramakrishna Institute of Technology, Coimbatore
10. One day workshop on “Practice on Engineering Graphics – Hands on Training” held on 29th September 2016, conducted by Department of Mechanical Engineering, Bannari Amman Institute of Technology, Sathyamangalam

Faculty Development Program attended (from recent)

1. Sixteen days FDP on “Machine Learning for Data Science using Python” held on 25th April -10th May 2023, conducted by Department of Computer Science Engineering, NIT, Warangal
2. Five days FDP on “Outcome Based Education and Accreditation Process” held on 12th-16th December 2022, conducted by Department of Computer Science Engineering at SSN College of Engineering, Chennai
3. Seven days online FDP on “Pedagogy and Assessment through Digital Learning Platform (PA-DLP’21)” held on 07th-13th December 2021, conducted by AICTE-ISTE at Bannari Amman Institute of Technology, Sathyamangalam
4. Five days online FDP on “Research Perspectives: Renewable Energy in Electric Vehicle Charging” held on 22nd-26th November 2021, conducted by AICTE Training and Learning (ATAL) Academy at Sri Ramakrishna Institute of Technology, Coimbatore
5. Five days online FDP on “Sustainability Engineering” held on 26th-30th October 2020, conducted by AICTE Training and Learning (ATAL) Academy at Indian Institute of Technology, Jammu
6. Five days online FDP on “Energy Storage” held on 05th-09th October 2020, conducted by AICTE Training and Learning (ATAL) Academy at Bharathiar University, Coimbatore.
7. Fourteen days FDP on “Recent Developments of Carbon Nanotubes in Renewable Energy Conversion and Storage” held on 12th June to 25th June, 2019, conducted by Department of Mechanical Engineering, Coimbatore Institute of Engineering and Technology, Coimbatore
8. Seven days QIP on “Nanofluids for Frontier application” held on 04th June to 10th June, 2018, conducted by Department of Physics, Coimbatore Institute of Technology, Coimbatore
9. One day FDP on “ME6401 - Kinematics of Machinery” held on 29th November, 2017, conducted by Department of Mechanical Engineering, JCT College of Engineering and Technology, Coimbatore
10. Three days FDP on “Soft Computing Techniques using MATLAB for Engineering Research” held on August 09-11, 2017, conducted by Department of Electrical and Electronic Engineering, Sri Ramakrishna Institute of Technology, Coimbatore
11. Two days FDP on “Applied Operations Research” held on April 06 & 07, 2017, conducted by Department of Science and Humanities (Mathematics) & SRIT Business School, Sri Ramakrishna Institute of Technology, Coimbatore
12. Two days FDP on “Recent trends in Medical Image Processing & Robotic vision through Machine Learning Perspectives” held on November 2016, conducted by Department of Electronics and Communication Engineering, Bannari Amman Institute of Technology, Sathyamangalam

Events Organized (from recent)

Conference - Nil

FDP – 4

1. Five Days Faculty Orientation Program' 2023 from 5th-9th June 2023 at Sri Ramakrishna Institute of Technology, Coimbatore
2. Five Days Training Programme "Leadership Intervention Training from 22th -29th May 2023 at Sri Ramakrishna Institute of Technology, Coimbatore
3. One Day Faculty Development Programme on "Revisiting Outcome Based Education", on 11th March 2023 at Sri Ramakrishna Institute of Technology, Coimbatore
4. Five Days Faculty Development Programme on "Outcome Based Education for Inductee Teachers", From 2nd -6th January 2023 at Sri Ramakrishna Institute of Technology, Coimbatore

Workshops – 3

1. One Day workshop on "Hands-On Training on "Special Manufacturing Machines" on 17th May 2023 at Sri Ramakrishna Institute of Technology, Coimbatore
2. One Day workshop on "Experiential Learning" on 9th May 2023 at Sri Ramakrishna Institute of Technology, Coimbatore
3. One Day workshop on "Hands-on Training on Computer Fundamentals for Drivers and Office Assistant" on 30th January 2023 at Sri Ramakrishna Institute of Technology, Coimbatore

Seminars - Nil

Online Courses Completed

Sl. No.	Title	Platform
1	Heat Transfer	NPTEL
2	Steam and Gas Power Systems	NPTEL
3	Energy Conservation and Management	NPTEL
4	Engineering Thermodynamics	NPTEL
5	10 tips for writing a truly terrible review	Elsevier
6	Orientation Towards Technical Education and Curriculum Aspects	NITTT
7	Professional Ethics & Sustainability	NITTT
8	Communication Skills, Modes & Knowledge Dissemination	NITTT
9	Instructional Planning and Delivery	NITTT
10	Technology Enabled Learning & Life Long Self Learning	NITTT
11	Student Assessment and Evaluation	NITTT
12	Creative Problem Solving, Innovation and Meaningful R & D	NITTT
13	Institutional Management & Administrative Procedures	NITTT

Awards and Recognitions Secured

1. Supervisor Recognition: Register No: 4120137, w.e.f 12.04.2023 (Anna University)
2. Gold Medalist in my Masters Engineering

Self-appraisal

Major Strengths

- Hard Work
- Honesty
- Commitment towards work

Major Weakness

- Learning from mistakes
- Fear of Failure
- Struggling with time management

Signature