

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 Q	ual	ification, Designation	and		
Mr. S.Veerakuma Assistant Professo	r, N or,	1.E., (Ph.D)			
Mechanical Engli	1eer	ing.		1	
Date of birth	:	17-06-1993	Gender	:	Male
Nationality	:	Indian	Marital status	:	Single
Address for correspondence	:	136, Sengodampalayam, Kovilpalayam (Post), Perundurai (TK), Erode – 638116.	Permanent address	:	136, Sengodampalayam, Kovilpalayam (Post), Perundurai (TK), Erode – 638116.
Mobile no	:	+91-9688472728	e-mail (official)	:	veerakumar.me@srit.org
Landline	:		e-mail (personal)	:	veerakumar411@gmail.com
Date of joining	:	14-06-2018	Post of joining	:	Assistant Professor
No of promotions since D.O.J	:	Nil	Present post	:	Assistant Professor
Present pay scale	:	15600-39100	Gross pay	:	Rs.36,611
Employee ID	:	TE362	Bank account No. (Salary credited)	:	500101011554060
P.F. No	•	TN/CBE/56764/10843	Group Insurance No	•	AG00059675000102
PAN Number	:	AWDPV2699D	Aadhar Number	:	969991446122
AICTE ID	:	1-4144299002	AICTE Institution ID	:	1-7841521

Educational Qualification

Dograd	Specialization	Year of	Name of the	Name of the	Class
Degree	Specialization	Passing	College	University	Obtained
UG	B.E. Mechanical	2014	SNS College of Engineering, Coimbatore	Anna University	First Class
PG	M.E. Mechatronics	2017	Kongu Engineering College, Erode	Anna University	First Class with Distinction
Ph.D	Robotic Welding	On-going	Kongu Engineering College, Erode	Anna University	_
Others					

Registration for Ph.D. with area of interest: Robotic Welding

Year of Ph.D. Registration: 2019

Year of Ph.D. Completed:

Thesis Title:

Supervisor Recognition Number:

Ph.D. Scholar Details

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

Academic Experience

Name of the College	Designation Joining Date		Relieving	Experience		
			Date	Years	Months	Days
Sri Ramakrishna Institute of Technology, Coimbatore.	Assistant Professor	14-06-2018	Till Date	5	5	13
Dhanalakshmi Srinivasan College of Engineering, CBE	Assistant Professor	14-06-2017	28-05- 2018	0	11	15
			Total	6	4	28

Industrial Experience

Name of the	Designation	Nature	Joining	Relieving Experience		•	
Organization	Designation	of Work	Date	Date	Years	Months	Days
Nil							
Total							

Courses Handled

Academic	Semester	Course	Course Name	Type of	Pass
Year		Code		Course (T / L)	Percentage
2023-24	VII	20ME025	Computer Integrated Manufacturing	Т	On going
	III	20ME002	Manufacturing Processes II	Т	On going
	III	20ME006	Manufacturing Technology Laboratory	L	On going
2022-23	VI	20MEE04	Introduction to Robotics	Т	75
	II	20ME001	Manufacturing Processes I	Т	81
	V	UMEE301	Mechatronics	Т	86
	VII	20ME017	CAD/CAM Laboratory	L	100
2021-22	VI	UMEC012	Hydraulics and Pneumatics	Т	80
	VII	UMEE301	Mechatronics	Т	84
	VII	20ME007	Mechanics of Materials and Fluid Machinery laboratory	L	100
2020-21	VIII	UMEE213	Safety Engineering	Т	100
	V	UMEE301	Mechatronics	Т	100
	VII	UMEG004	Introduction to Robotics	Т	100
2019-20	IV	UMEC005	Manufacturing Processes II	Т	100
	VI	UMEC014	Integrated Design Project (Course Work)	Т	100

	Ι	UICE001	Basic Civil and Mechanical Engineering	Т	91
	VII	ME6702	Mechatronics	Т	86
2018-19	IV	UMEC005	Manufacturing Processes II	Т	83
	VI	EC6003	Robotics and Automation	Т	78
	Ι	UICH010	Mechanical Engineers and Society	Т	92
	VII	ME6702	Mechatronics	Т	88

Projects Guided

Academic Year	Semester	Project Title	UG / PG
2023-24	VIII	Parameter Optimization of GMA Welding Process on DSS2205 AND SS 316L Arc Welding Robot	UG
2023-24	VIII	Design and Fabrication of Retrofitted Two Wheeler Electric Vehicle (KARIZMA ZMR)	UG
2022-23	VIII	Design and Fabrication of Retrofitted Two Wheeler scotty (TVS WEGO)	UG
2021-22	VIII	Parameter Optimization of GMA Welding Process on Duplex Stainless Steel 2205 using Arc Welding Robot	UG
2020-21	VIII	Design and Fabrication of Surveillance Drone with Face Recognition	UG
2020-21	VIII	Design and Fabrication of Garbage collection Electric Vehicle	UG
2019-20	VIII	Modernization of Automotive Air Condition System Using Arduino Controller	UG
2019-20	VIII	Design and Fabrication of Automatic Headlight Dimmer using Arduino	UG
2018-19	VIII	Modernisation of Automated Guided Vehicle by using Ultrasonic Sensor and RFID Technologies	UG

Publications

Publications	SCI / Scopus / Web of Sciences	Others
Journal	02	01
Conferences	01	04

Journal Publications (IEEE format)

- 1. Sudharsan, S., Arul, R. and Veerakumar, S., 2022. Multiple response optimization of WEDM parameters using grey relational method. Materials Today: Proceedings (Elsevier), 59, pp.305-308. (Scopus)
- Arunkumar, M., Veerakumar, S., Mohanavel, V., Vairamuthu, J., Vijayan, V. and Senthilkumar, N., 2021. A novel visible light-driven p-type BiFeO3/n-type SnS2 heterojunction photo catalyst for efficient charge separation and enhanced photocatalytic activity. Journal of Cluster Science (Springer), 32(5), pp.1431-1439. (Scopus & SCI).
- 3. Veerakumar, S., Dhanakumar, B., Balamurugan, J. and Balanayagam, M., 2020. Modernization of Automotive Air Condition System Using Arduino Controller. Journal of Automation and Automobile Engineering, 5.
- 4. Dhanalakshmi D, Sathiyavathi S, Vimala Starbino A and Veerakumar S., 2016. A simple method of tuning PID controller for Integrating First order Plus time Delay Process. International Journal of Electrical Engineering (2016) Vol.9, pp. 77-86.
- 5. Dhanalakshmi D,Sathiyavathi, S Veerakumar S, PID Control of Antilock Braking System. International Journal of Applied Engineering Research, Vol. 10, No. 84, pp.834-837, 2016.
- 6. Sudhakaran, R., Aravinthkumar, G., Naveenkumar, M., Veerakumar, S. and Vigneshvar, M., 2014. Enhancing the IC Engine Performance by Using the Electrolysis and Preheating Process. IOSR-JCE.

Conference Publications (IEEE format)

 Veerakumar, S., AnandBabu, V. and Varun, B., 2020, September. Design and implementation of PK-PD model based PID controller for closed loop anesthesia regulation. In IOP Conference Series: Materials Science and Engineering (Vol. 932, No. 1, p. 012095). IOP Publishing. (Scopus).

Books / Book Chapters (IEEE format)

1. Lab Manual: Manufacturing Process II ISBN-10: 1636699561, ISBN-13: 978-1636699561 Publisher: Notion Press; 1st edition (4 November 2020)

Sponsored Research

Project Title	Funding Agency	Amount Rs.	Duration
Design and Fabrication of Mini Dirt bike	SNR Sons Charitable Trust	Rs.30,000/-	Mar – May 2023
Smart E-Bike Monitoring System	SNR Sons Charitable Trust	Rs.20,000/-	Jan – April 2023
Design and Fabrication of Electric bike	SNR Sons Charitable Trust	Rs.75,000/-	June – Sep 2019

Consultancy

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

Workshops / Seminars attended

- 1. Participated in DST-SERB sponsored two days National Level Technical Seminar on "Role of Artificial Intelligence in Renewable Energy Systems and Electric Vehicles" at KPR Institute of Engineering and Technology, Coimbatore on 5th & 6th October 2023.
- Participated in DST sponsored two days keynote lectures on "INNOVATIONS, IPR, INCUBATION, STARTUPS AND TECHNOLOGY TRANSFER" organized by Technology Enabling Centre, Anna University, Chennai on February 2020.
- 3. Participated in Two Days Workshop on "ELECTRIC TWO WHEELER DESIGN" organized by SAEINDIA Southern Section held at Hindustan College of Engineering and Technology, Coimbatore on February 2020.

Faculty Development Program attended (from recent)

- Participated in one Week AICTE Training and Learning (ATAL) Academy Online FDP on "FOSTERING CULTURE OF START- UP, INNOVATION & ENTREPRENEURSHIP IN ACADEMIC INSTITUTIONS" from 20-09-2021 to 24-09-2021 at Science and Technology Entrepreneurs Park, Kanpur (STEP-HBTI).
- Participated in one Week AICTE Training and Learning (ATAL) Academy sponsored One Week Online Faculty Development Programme on "ELECTRIC VEHICLES" organized by Department of Mechanical Engineering Teegala Krishna Reddy Engineering College, Telangana from 09th to 13th Nov 2020.
- 3. Participated in one Week AICTE Training and Learning (ATAL) Academy sponsored One Week Online Faculty Development Programme on "3D PRINTING AND DESIGN" organized by Department of Mechanical Engineering Mar Athanasius College of Engineering, Kerala from 16th to 20th Nov 2020.

- 4. Completed NPTEL-AICTE sponsored one and half weeks Faculty Development Programme on "MANUFACTURING PROCESS TECHNOLOGY" Jan-Apr 2019
- 5. Participated in AICTE sponsored Two Weeks Faculty Development Programme on "MODELING AND CONTROL OF HIGH EFFICIENCY ELECTRIC AND HYBRID VEHICLES AND THE FUTURE VEHICLE FLEET IN 2030" organized by Department of Automobile Engineering held at SRM Easwari Engineering College, Chennai from 10th to 23th, June 2019.

Events Organized (from recent)

Conference: NIL

FDP: NIL

Workshops:

- Organizing a two days National level ELECTRIC BIKE DESIGN CHALLENGE (EBDC'23), Season 3 (Static Round) at Sri Ramakrishna Institute of Technology, Coimbatore on October 2023.
- Organizing a two days National level MINI DIRT BIKE RACING CHALLENGE (RALLERZ'23), Season 1 at Sri Ramakrishna Institute of Technology, Coimbatore on March 2023
- 3. Organizing a webinar on "PLACEMENT AND CAREER ASSIST" in collaboration with Unacademy, Bangalore at Sri Ramakrishna Institute of Technology, Coimbatore on January 2023.
- 4. Organizing a four days National level ELECTRIC BIKE DESIGN CHALLENGE (EBDC'22), Season 2 (Static and Dynamic Rounds) at Sri Ramakrishna Institute of Technology, Coimbatore on September 2022.
- Organizing a one day National level ELECTRIC BIKE DESIGN CHALLENGE (EBDC'22), Season 1 (Static Round only) at Sri Ramakrishna Institute of Technology, Coimbatore on March 2022.
- 6. Organizing a one day workshop on "SELECTION OF MOTORS FOR ELECTRIC BIKE" in collaboration with EMF Innovations India Pvt Ltd, Coimbatore at Sri Ramakrishna Institute of Technology, Coimbatore on March 2022.
- 7. Organizing a one day workshop on "CHALLENGES IN DESIGN OF ELECTRIC BIKE" in collaboration with Puma Technovation India Pvt Ltd, Coimbatore at Sri Ramakrishna Institute of Technology, Coimbatore on March 2022.

Seminars

1. Organizing a webinar on "DESIGNING OF ELECTRIC VEHICLE BATTERY PACK" in collaboration with Imperial Society of Innovative Engineers (ISIEINDIA), Noida at Sri Ramakrishna Institute of Technology, Coimbatore on July 2023.

- 2. Organizing a one day Peer Enablement Program on "HANDS ON TRAINING ON ASSEMBLY AND DISASSEMBLY OF ELECTRIC BIKE" in collaboration with Mechatron Motors LLP, Coimbatore at Sri Ramakrishna Institute of Technology, Coimbatore on July 2021.
- 3. Organizing a webinar on "ADVANCED TROUBLESHOOTING TECHNIQUES IN CNC" in collaboration with Musashi Auto Parts Pvt Ltd, Bangalore at Sri Ramakrishna Institute of Technology, Coimbatore on June 2020.
- 4. Organizing a webinar on "PROGRAMMABLE LOGIC CONTROL IN INDUSTRIAL AUTOMATION" in collaboration with Ariel University, Israel at Sri Ramakrishna Institute of Technology, Coimbatore on July 2019.

Sl. No.	Title	Platform
1.	Orientation towards Technical Education & Curriculum Aspects	NITTTR
2.	Material Processing - Georgia Institute of Technology	Coursera
3.	Material Behavior - Georgia Institute of Technology	Coursera
4.	Engineering Project Management: Scope, Time and Cost Management – Rice University	Coursera
5.	Engineering Project Management: Initiating and Planning - Rice University	Coursera
6.	Manufacturing Process Technology	NPTEL

Online Courses Completed

Awards and Recognitions Secured

- 1. Appointed as the ISIE Event Regional Ambassador South India by Imperial Society of Innovative Engineers, Noida from October 2022.
- 2. Initiate to implement students startup company "MECHATRON MOTORS LLP" in our college campus (Got Approval from our SNR Trust on May 2021)
- 3. Appointed as the Innovation Ambassador of SRIT Institution's Innovation Council (SRIT-IIC) by Sri Ramakrishna Institute of Technology, Coimbatore.
- 4. Appointed as the Startup Activity Coordinator of SRIT Institution's Innovation Council (SRIT-IIC) by Sri Ramakrishna Institute of Technology, Coimbatore.
- 5. Won the Best Startup Award from American Society of Mechanical Engineers (ASME-SRIT Student Section) by Sri Ramakrishna Institute of Technology, Coimbatore.

- 6. Won the Best Faculty Advisor Award in Electric Bike Racing Challenge (EBRC) conducted by AMT Moto Corp at O.P Jindal University, Chhattisgarh on January 2020.
- 7. Act as the Master Trainer for Student Solar Ambassadors Workshop organized by IIT Bombay on 2nd Oct 2019.
- Won the Best Abstract Award for presented a paper during the 3rd International conference on Technological Advances in Mechanical Engineering (ICTAME'19) at AMET University on September 2019

Self-appraisal

Major Strengths

- 1. Mentor and Innovator
- 2. Hard Worker
- 3. Time Management

Major Weakness

- 1. Multitasking too much
- 2. Delegating tasks
- 3. Fear of Future

Signature