

## BIO DATA



Name : S. Sharmila Kumari  
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Google Scholar link : <https://scholar.google.co.in/citations?hl=en&user=BtFEMT8AAAAJ>

### 1. Educational Qualification

Degree	Branch / Specialization	Institute/University	Year of Passing
B.E.	Electrical and Electronics Engineering	Thiagarajar College of Engineering / Anna University, Chennai	2016
M.E	Electrical and Electronics Engineering / Embedded System Technologies	Anna University Regional Campus - Tirunelveli	2018
PhD	Electrical and Electronics Engineering	Anna University Chennai	Pursuing

### 2. Professional/ Industry Experience

: (in chronological order)

S.No	Designation	Institution/Organization	Period	
			From	To
1.	Assistant Professor	Ramco Institute of Technology	13.06.2018	Till now

### 3. Research Interest: Embedded System, Artificial intelligence (AI)

#### 4 Publications

##### 4.1 JOURNAL PUBLICATIONS

1. **S.SharmilaKumari**, G.Sivapriya, S.Keerthana “Assistive System Based on Fuzzy to Guide Visually Impaired People to Their Optimal Path” AIP Conference Proceedings (Scopus indexed)-<https://doi.org/10.1063/5.0163154>
2. A. Guna, **S. Sharmila Kumari**, G. Sivapriya “State of Charge based Charging Controller with Temperature monitoring system for Lithium ion Battery in Electric Vehicle” in E3S Web of Conferences 399, 01008 (2023). (Scopus indexed).-<https://doi.org/10.1051/e3sconf/202339901008>

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3. R. Marisankar, **S. Sharmila Kumari**, G. Sivapriya, "Solar Powered Agricultural Water Pumping with Auto Tracking", International Journal of Scientific Research in Science and Technology (IJSRST), Online ISSN: 2395-602X, Print ISSN: 2395-6011, Volume 8 Issue 4, pp. 216-223, July-August 2021.  
Available at doi : <https://doi.org/10.32628/IJSRST218435>  
Journal URL : <https://ijsrst.com/IJSRST218435>
4. Dr. Fareena N,**SharmilaKumari S**“A distributed fuzzy multicast routing protocol (DFMCRP) for maximizing the network lifetime in mobile ad-hoc networks” published in Journal of Ambient Intelligence and Humanized Computing (2020), (<https://doi.org/10.1007/s12652-020-01936-w>) May 02, 2020.
5. Dr. Fareena N, **SharmilaKumari S** (Jan 2019), “Multipath Routing Protocol for Mobile Ad-Hoc Network using Fuzzy Logic” Journal of Applied Science and Computations Vol. IV, Issue.1, pp.834-838. Impact factor:5.8,ISSN NO:1076-5131,DOI : 16.10089/JASC.
6. Dr. Fareena N, **SharmilaKumari S** (Feb 2018), “Fuzzy based multicast routing protocol for handling uncertainties in Mobile Ad-hoc Network” UCG approved journal of Sadakath: A Research Bulletin Vol.V, pp.33-40., ISSN 2347-7644.

#### 4.2 CONFERENCE PUBLICATIONS

1. **S.SharmilaKumari**, S.Arun Kumar, S.Jeyasuriya, and R. MahaGanapathiKameswaran presented a paper titled on “IOT BASED SURVEILLANCE IN AGRICULTURE” in second National Conference on “Recent Advancement in Science Engineering & Technologies (RASET-2023)” Organized by ECE, Bannari Amman Institute of Technology, sathyamangalam on 03.05.2023.
2. **S.SharmilaKumari**, S.Arun Kumar, S.Jeyasuriya, and R. MahaGanapathiKameswaran presented a paper titled "Voice Controlled Robot" in the International Conference on Smart Engineering for Renewable Energy Technologies (ICSERET 2023) organized by Ramco Institute of Technology on 24th & 25th March, 2023.
3. G.Sivapriya, **S.SharmilaKumari**, T. Sri Varshinipresented a paper titled “Solar Based Energy Management System for Charging Stations with Battery Storage” in the National Conference on Recent Research on Advance Computing – 22 organized by SRM Institute of Science and Technology on 27 May 2022.
4. R. Arjun Ram, R.Marisankar, S.Sathishkarunakaranand **S.Sharmila Kumari**presented a paper titled on “Solar Powered Agricultural Water Pumping with Auto Tracking” in the Virtual National Conference on Intelligent Computing and Automation organised by Department of Electronics and Instrumentation Engineering, Kamaraj College of Engineering and Technology, Virudhunagar on 09April, 2021.
5. S. Jeya Shiny Suhel, M. Ramya A. G. Vinataa, S.SharmilKumari, “Smart medicine box”, National Conference on Computer, Electrical and Electronics Engineering (TECHTASTIC 2K20), 6 March, 2020, PSR Rengasamy College of Engineering for Women, Sivakasi.

#### 4.3 Book/Book chapter publications

Nil

## 5 Funded Projects

S.No.	Title of the project	Funding Agency	Duration	Amount	Status
Nil					

## 6 Ph.D. guidance

Sl.No	Scholar name	University	Topic	Status
Nil				

## 7 Short term Courses / Seminars /FDP/Workshop/Conference Attended:

Sl.No	Title of the event	Organized by	Date	
			From	To
1.	AICTE approved FDP on "Signals and Systems"	Ramco Institute of Technology, Rajapalayam	13.06.2018	18.06.2018
2.	Workshop on "Linear Algebra"	Ramco Institute of Technology, Rajapalayam	27.08.2018	28.06.2018
3.	Workshop on "AI and Deep Learning"	Ramco Institute of Technology, Rajapalayam	14.09.2018	16.09.2018
4.	TEQIP-III Sponsored Short Term Course on "Recent Trends in Electric Vehicles"	Thiagarajar College of Engineering, Madurai	06.12.2018	08.12.2018
5.	Two day seminar on "Intelligent Electric Power Grid"	Ramco Institute of Technology, Rajapalayam	28.12.2018	29.12.2018
6.	Two days Faculty Development Programme on "DSP"	PSG Institute of Technology and Applied Research	07-06-19	08-06-19
7.	Hands on training on "Analog Discovery Kit"	Ramco Institute of Technology, Rajapalayam	22-06-19 (9.00am)	22-06-19 (5.00pm)
8.	Faculty Development Programme on "Team Building"	Ramco Institute of Technology, Rajapalayam	18.11.2019	20.11.2019
9.	Workshop on "Three Days Online Multi Criteria Decision Making Workshop(MCDM)"	REST Society for Research International (RSRI), Krishnagiri	23.04.2020	25.04.2020
10.	ATAL FDP on "Data Science"	Ambedkar Technological University, Lonere	30.04.2020	04.05.2020
11.	Webinar on "Effective use of Learning Management Systems"	ISTE, Ramco Institute of Technology, Rajapalayam	09.05.2020	09.05.2020

Sl.No	Title of the event	Organized by	Date	
			From	To
12.	Webinar on “How to Formulate a Research Problem?”	Ramco Institute of Technology, Rajapalayam	13.05.2020	13.05.2020
13.	Seminar on “IEEE explore digital library training”	Kalasalingam Academy of Research & Education	14.05.2020	14.05.2020
14.	STTP on “Recent Innovation in Electrical Electronics Instrumentation Automation and Teaching Pedagogy”	Sai ram Engineering College, Chennai	18.05.2020	30.05.2020
15.	Webinar on “Essentials for Setting-Up an AI/DL Lab”	Bennett University, Greater Noida, India	17.07.2020	17.07.2020
16.	ATAL FDP on “Electric Vehicles”	North Eastern Regional Institute of Science and Technology	07.12.2020	11.12.2020
17.	ATAL FDP on “Artificial Intelligence”	Dr. Ambedkar Institute of Technology.	04.01.2021	08.01.2021
18.	Workshop on “C Programming”	Institute of Engineer (CSE) Student chapter, RIT	06.01.2021	12.02.2021
19.	Webinar on “Implementation of National Educational Policy 2020”	IEEE	24.03.2021	24.03.2021
20.	ATAL FDP on “Introduction to Deep Learning”	University Visvesvaraya College of Engineering	20.12.2021	24.12.2021
21.	Webinar on “How to write an effective seminar/Project proposal for Electrical Engineering”	Kongu Engineering College	26.01.2022	26.01.2022
22.	Webinar on “Outcome Based Education”	Ramco Institute of Technology	22.04.2022	22.04.2022
23.	Webinar on “Artificial Intelligence Machine Learning and Deep learning”	Department of Computer Science and Engineering NIT Warangal association with CCE, NIT Warangal	28.11.2022	02.12.2022
24.	Workshop on “TinyML for scientific use cases”	Ramco Institute of Technology	25.07.2022	25.07.2022

Sl.No	Title of the event	Organized by	Date	
			From	To
25.	“Train The Trainer” program for STE-SDC Course	Tessolve Semiconductor Pvt Ltd	24.07.2023	29.07.2023
26.	FDP on “Deep Learning”	NPTEL	Jan 2023	April 2023

### 8. Short term Courses / Seminars /FDP/Workshop/Conference organized:

Sl.No	Title of the event	Organized by	Date	
			From	To
1.	Delivered special lectures for Semiconductor Test Engineering Course on the topic “Measurements and Instrumentation”	Ramco Institute of Technology, Rajapalayam	09.05.19	11.05.19
2.	Delivered special lectures for Arduino Programming Value Added Course on the topic “LCD interface with Arduino , Temperature sensor, Buzzer interface with Arduino”	Ramco Institute of Technology, Rajapalayam	18.06.19	19.06.19
3.	Delivered Guest lecture on Measuring Techniques -Anna University Value Added Courses-MVA005 Smart Materials and Structures	Ramco Institute of Technology, Rajapalayam	03.08.2019 (2:00 pm)	03.08.2019 (3:30 pm)
4.	Fun with Electric Circuits- Measuring Instruments – Voltmeter, Ammeter & Energy meter	Ramco Institute of Technology, Rajapalayam	13.05.2020	13.05.2020
5.	Sensors and Displays - PIR Sensor and Temperature Sensors	Ramco Institute of Technology, Rajapalayam	25.05.2020	25.05.2020
6.	Value added Course on “Virtual Instrumentation” - Installing LabVIEW, Basic Arithmetic Operation, Programming exercise with array, cluster and loop. DAQ Interface.	Ramco Institute of Technology, Rajapalayam	25.11.2020	05.12.2020
7.	FUN with Electric Circuits Phase-2 - Measuring Instruments – Voltmeter, Ammeter & Energy meter	Ramco Institute of Technology, Rajapalayam	20.05.2021	20.05.2021
8.	Hands on Training “Office Automation” - Basis of Excel	Ramco Institute of Technology, Rajapalayam	05.06.2021	05.06.2021

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Sl.No	Title of the event	Organized by	Date	
			From	To
9.	Faculty Co-ordinator on “Opportunities for Higher Education in Abroad”	RIT- Career Guidance Cell	20.09.2021	20.09.2021
10.	Faculty Co-ordinator on “Art of Learning”	RIT - IE(I) student chapter	04.12.2021	06.12.2021
11.	Faculty Co-ordinator on “Awareness talk on Internship, UG Research and Higher Education”	RIT- Career Guidance Cell	22.01.2022	22.01.2022
12.	Faculty Co-ordinator on “Opportunities for Higher Education in Abroad”	RIT- Career Guidance Cell	20.09.2021	20.09.2021
13.	Faculty Co-ordinator on “How to face State and Central Government Exam”	RIT- Career Guidance Cell	22.03.2022	22.03.2022
14.	Faculty Co-ordinator on “Instrument Transformer”	RIT-IEEE Student Branch	24.04.2022	24.04.2022
15.	Tessolve Training- Digital Electronics	RIT-Placement Cell	15.02.2022	15.02.2022
16.	Act as a Jury -ISTE Student Convention	RIT	26.03.2022	26.03.2022
17.	Faculty Co-ordinator on “Higher Education in Abroad”	RIT Career Guidance Cell	01.10.2022	01.10.2022
18.	Faculty Co-ordinator on “Wind Power – Growth and Opportunities in India”	RIT Career Guidance Cell	24.09.2022	24.09.2022
19.	Faculty Co-ordinator on “UPSC and TNPSC Civil Services Examinations”	RIT Career Guidance Cell	07.02.2023	07.02.2023
20.	Faculty Co-ordinator on “Arduino and IoT”	CSI Students chapter & IEEE Student Branch	11.08.2022	13.08.2022
21.	Entertaining Easy Electric Circuit	RIT-EEE	01.06.2022	02.06.2022
22.	Hands on Training “Electronic Simulator for Project Explorers”	RIT-EEE	05.05.2023	05.05.2023

### 9. Online Courses

S.NO	COURSE TITLE	UNIVERSITY	DATE
1.	Introduction to Computer Science and Programming Using Python	Massachusetts Institute of Technology	30.10.2019
2.	Calculus 1C : Coordinate systems and Infinite series	Massachusetts Institute of Technology	2.05.2019
3.	Circuits and Electronics 1: Basic Circuit Analysis	Massachusetts Institute of Technology	31.05.2019

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S.NO	COURSE TITLE	UNIVERSITY	DATE
4.	Calculus 1A: Differentiation	Massachusetts Institute of Technology	22.11.2018
5.	Introduction to Computer Science and Programming Using Python	Massachusetts Institute of Technology.	01.11.2019
6.	Vector Calculus for Engineers	The Hong Kong University of Science and Technology	12.06.2020
7.	Programming for Everybody (Getting Started with Python)	University of Michigan	23.06.2020
8.	Electric Cars: Introduction	Delft University of Technology	23.07.2020
9.	Graphical Programming Language using NI LabVIEW	OPTITHOUGHT [NI-SAP], Chennai	06.07.2020 to 31.07.2020
10.	Operations Research: an Active Learning Approach	EIT Digital	03.09.2020
11.	Introduction to Programming with MATLAB	Vanderbilt University	08.10.2020
12.	NITTTTS1M1 -Module 1_ Orientation Towards Technical Education and Curriculum Aspects	NITTT	Feb 2021
13.	Embedded Hardware and Operating Systems	EIT Digital	16.08.2020
14.	NITTTTS1M3 -Module 3_ Communication Skills, Modes & Knowledge Dissemination	NITTT	Sep 2021
15.	NITTTTS1M4 -Module 4_ Instructional Planning and Delivery	NITTT	Sep 2021
16.	Mastering Programming with MATLAB	Vanderbilt University	07.10.2021
17.	Differential Equations: Fourier Series and Partial Differential Equations	Massachusetts Institute of Technology	17.05.2022
18.	Deep Learning	IIT Kharagpur -NPTEL	12.05.2023
19.	NITTTTS1M3 -Module 2_ Professional Ethics and Sustainable Development	NITTT	Feb 2023
20.	Innovation Ambassador Training - Foundation level	MHRD - IC	Oct 2022

## 10. Patents filed

S. NO	NAME OF THE MEMBERS	NAME OF THE PATENT	PATENT APPLIED NUMBER & DATE	CURRENT STATUS
1.	Ms. S. Jeya Shiny Suhel, Ms. M. Ramya, Ms. A. G. Vinataa, Ms.S.SharmilaKumari, MrsG.Sivapriya Mr.E.Thangam Dr.S.Kannan	An Apparatus for Monitoring and Dispensing Medicine to Elderly Patients	India- 20214100446 8 & 02.02.2021	FER Applied
2.	Mr. D. Logesh Mr. C. Kaleeshwaran Mr. M. Arumugaanath Dr. S. Kannan Ms. S. Sharmila Kumari Mrs.G.Sivapriya	Improving the Efficiency of Off-Grid Bifacial Solar Panel using Reflector System	20224101827 7 &29-03-2022	Hearing Received
3.	Mr. K.K.Kishore Mr. K. MubisAkash Varun Mr. R.K. Venkateshan Dr.S.Kannan MrsG.Sivapriya Ms.S.SharmilaKumari	An Internet of Things System for Rainwater Collection and Intelligent Farming	20244101538 2 & 01.03.2024	Applied

## 11. Copyright Details

S. NO	NAME OF THE MEMBERS	TITLE OF THE WORK	DIARY NUMBER	CURRENT STATUS
1.	Mrs.S.Sharmila Kumari, Mrs. G.Sivapriya, Mr. A.Guna	Real Time Application of 8051 Microcontroller Program Manual for Beginners	L-16665/2023	Granted

## 12. Membership in Professional societies: -

## 13. Awards, Recognition & Achievements

1. Produced 100% results in EE6004 Flexible AC Transmission Systems
2. Produced 100% result in EE8403-Measurements and Instrumentation
3. Produced 100% result in EE8551-Microprocessor and Microcontroller

**Any others (Board of studies/Governing Council/Staff Selection/Reviewer/other duties)**