

Faculty Profile



1. Name : Dr Sasikumar M
2. Designation : Assistant Professor
3. Date of Joining : 07.12.2009
4. Nature of Association : Regular
5. E mail :sasikumarm@ksrct.ac.in
6. Mobile no. : +91 9965167895

7. Academic Qualifications:

Course	Name of the Institution /University	Year of Passing	% of Marks	Class
Ph.D (Information and Communication Engineering)	Anna University, Chennai	2019	-	-
M.E(Applied Electronics)	Bannari Amman Institute of Technology Tamilnadu, India.	May 2008	80	First class with Distinction
B.E. (EEE)	M.P.Nachimuthu M.Jaganathan Engineering College, Tamilnadu ,India.	April 2006	77	First class with Distinction
H.S.C.	Sri Ramakrishna Mission Vidhalaya, Coimbatore	April 2002	82.33	First
S.S.L.C.	Pallipalayam Public Matriculation Higher Secondary School, Erode	March 2000	74.0	First

8. Teaching Experience

- **Assistant Professor**, K.S.Rangasamy College of Technology, Tiruchengode, from 07.12.2009 to Till date.

9. Projects

Under Graduate

- **Title:** “Impedance Source Inverter for AC Motor Drives”

Post Graduate

- **Title:** “Reduction Of Shift And Capture Power In Scan Testing”

10. Publications

International Journals

1. Paramasivam K & **Sasikumar M**, 'Vibration Based Energy Harvesting Device Using NdFeB Magnet and its New Power Converter Circuit with Feedback Controller', Journal of Computational and Theoretical Nanoscience, 2017, vol.14, no.7, pp.3589-3595.
2. **Sasikumar M** & Paramasivam K, 'Optimal placement of piezoelectric patches on cantilever Beam for voltage generation: Experimental Study', Asian Journal of Research in social sciences and Humanities, 2016, Vol.6, No.10, pp.510-523.
3. **Sasikumar M**, "IoT Based Battery Monitoring System for Electric Vehicle" in GIS Science Journal, 2022, Vol.9, Issue 7.

International Conferences

1. **M.Sasikumar**, "A New Actuator to control the energy input for compensating Drop Governor", E.G.S Pillay Engineering College Nagapattinam-611002, Tamilnadu, India, 15 Feb 2011
2. **M.Sasikumar**, "Energy Harvesting from electromagnetic vibration with efficient electronic circuits", Aishwarya college of Engineering and technology, Bhavani, Tamilnadu, India, 24 March 2014.
3. **M.Sasikumar**, "Hybrid Power generation using SOLAR and WIND Energy", Velammal Institute of Technology, Chennai, Tamilnadu, India, 06th & 07th March 2020

National Conferences

1. **M.Sasikumar**, "Reduction of shift and capture power during scan testing in VLSI circuits", *National Conference on Signal, Systems and Security (NSSS 2008)*, Department of ECE, Bannari Amman Institute of Technology Tamilnadu, India.
2. **M.Sasikumar**, "Modeling of MEMS Component by considering the Fringing field effect", *National Conference on Signal Processing, Communication & VLSI Design (2011)*, Department of ECE, Bannari Amman Institute of Technology Tamilnadu, India.

11. Fellowships

- High school scholarship by Government of TamilNadu.

12. Winter / Summer programs / QIP short-term courses attended

Year	Nature of program	Topic / Title	Organized / Given by	Period
2006	Workshop	Educational Utilization of Standards	BUREAU OF INDIAN STANDARDS (BIS), Sri Ramakrishna Institute of Technology ,Coimbatore	14 th March 2006
2006	Workshop	Recent Trends in VLSI Design and Softcomputing Techniques	Bannari Amman Institute of Technology Tamilnadu, India	06 th & 07 th 2006
2010	FDP	LabVIEW with hands on training	ICT Academy of Tamilnadu,India	11 th to 15 th 2010
2011	Seminar	MEMS Design Using COMSOL Multi physics CAD Tool	Under NPMASS Dept., of ECE, Thiagarajar College of Engineering, Madurai	19 th & 20 th Aug '11
2012	Seminar	Advanced Applications of Polymer Nanocomposites in Aerospace & Defence Industry	CSIR , K.S.Rangasamy College of Technology , Tiruchengode.	20 th & 21 st Jan '12
2012	Workshop	MEMS Technology & its Applications	Under NPMASS, Dept., of ECE, Rajalakshmi Engineering College, Chennai, Tamilnadu, India	28 th & 29 ^h March '12
2012	FDP	Facilitating Teaching –Learning and Communication Skills among Engineering Faculty for Effective Classroom Instruction	Department of Humanaties ,PSG College of Technology,Coimbatore, Tamilnadu, India	16 th to 29 th May 2012
2012	FDP	Smart Materials & Systems	Department of ICE, NIT,Tirchy, Tamilnadu, India	11 th to 15 th June '12
2012	Workshop	Micro Electro Mechanical Systems	Under NPMASS Department of ECE, Thiagarajar College of Engineering, Madurai Tamilnadu, India	01 st & 02 nd Nov 2012
2013	Workshop	Computer Aided Engineering Simulation Using COMSOL	School of Mechanical and Building Sciences,VIT-Chennai	13 th September 2013
2013	Workshop	Research Methods and LaTeX	Department of ECE,NIT,Tiruchirappalli	20 & 21 st September 2013
2014	Workshop	Graphical System Design Using LabVIEW	Department of Mechatronics Engineering,K.S.Rangasamy College of Technology	25 th & 26 th Feb 2014
2014	Workshop	Recent Trends in Automechatronics	Department of Mechatronics Engineering, K.S.Rangasamy College of Technology	18 th Feb 2014
2015	Workshop	Author Workshop on Book/Journal Publishing	Anna University,Chennai	17 th March 2015
2018	STTP	Introduction to Smart Materials with Energy Harvesting Applications	Department of Applied Mechanics Indian Institute of Technology Madras Chennai – 600036	02 – 07 September 2018.
2019	FDP	Design of Renewable Energy Systems	Department of Electrical and Electronics Engineering, College of Engineering,Guindy, Chennai-600025	22 March 2019.
2020	Workshop (02 days)	Development of Electric Vehicle and Renewable Energy Integration System using Typhoon HIL	Department of EEE, Anna University,Chennai-6000025	11 th & 12 th Feb 2020

2020	FDP (one week)	OUTCOME BASED CURRICULUM DESIGN	Under “Share and Mentor Institutions (MARGDARSHAN) Scheme” sponsored by AICTE, New Delhi. Kongu Engineering College Perundurai, Erode - 638 060	24.02.2020 to 29.02.2020 (6 days)
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Online Training Programmes

1. Participated in Online AICTE Recognized One week Faculty Development Programme on “Nanomaterials and Devices”, Organized by Applied Science Department, NITTTR, Chandigarh from 27-04-2020 to 01-05-2020.
2. Attended One week Faculty Development Programme on “Insights into Quality Research and Innovation” organized by Research & Development Cell and Institution’s Innovation Council of Vivekanandha College of Engineering for Women, from 13th May 2020 to 20th May 2020.
3. Participated in four days online Faculty Development Program on "Research, Funding Projects & IPR " jointly organized by IQAC, R & D Cell & Dept. of Electronics & Telecommunication under the banner of IETE and Institution's Innovation Council (IIC) of K. C. College of Engineering and Management Studies and Research, Thane (E) from 7th to 10th May 2020.
4. Attended five days Online Faculty Development Program on “Digital Resources and Learning” jointly organized by Department of Library and Information Science (DLIS), Alagappa University, AALISAU and SALIS from 17th May 2020 to 21st May 2020.
5. Participated in webinar on “Future of AI”, organized by IETE-Mumbai in Association with PANTECH on May 20, 2020.
6. Participated three days Online Faculty Development Program on “Improving Your Research Visibility – Research Impact and Metrics” jointly organized by Research and Development Cell and Internal Quality Assurance Cell, Velalar College of Engineering and Technology, from 11th May to 13th May 2020.
7. Participated in Online AICTE Recognized One week Faculty Development Programme on “Neural Network and CNN”, organized by Curriculum Development Centre Department, NITTTR, Chandigarh from 18-05-2020 to 22-05-2020.
8. Participated and Successfully completed Online Faculty Development Program on "Recent Advances in Power Electronics Applications with MATLAB Simulations" from 25th May to 30th May, 2020, organized by Department of Electrical Engineering, NIT Patna under Electronics and ICT Academy, NIT Patna.
9. Participated in Five day’s National level Online Faculty Development Program on “Disruptive Technologies of Industry 4.0” organized by Department of Computer Engineering, Fr. Conceicao Rodrigues College of Engineering, Bandra(W), Mumbai during 30-05-2020 to 03-06-2020.
10. Participated in seven day’s International Webinar Series on “Mental Health and Wellness during Covid - 19 Pandemic”, Jointly organized by Department of Special Education and Rehabilitation Science & Department of Psychology, THE American College, Madurai from 01st to 07th June 2020 .
11. Attended Five day’s online Faculty Development Program on " Technological Advances In Power

Switching Converters For Renewable Energy Sources And Fuel Cell Technologies For E-Vehicles" during 01st to 05th June 2020, Organised by Department of Electrical and Electronics Engineering , Bapatla Engineering College,Bapatla.

12. Attended Six day's online Faculty Development Program on " Artificial Intelligence, Machine Learning, Internet of things & Big Data Applications in Power Electronics and its Allied Areas" during 01st to 06th June 2020, Pre-conference FDP –SEFET2021 (Technically co-sponsored by IEEE IAS & IEEE Hyderabad section) Organised by Gokaraju Rangaraju Institute of Engineering & Technology,Hyderabad,Telangana.
13. Completed One Professional Development Hour on “Smart Battery Management and Health Conscious Fast Charging for Future Transport”, conducted by IEEE Continuing Education,Florida on 2ndJune2020.
14. Participated in “IIGneous-2020”,Organised by Indian Institute of Geomagnetism, Mumbai on 07.06.2020.
15. Attended One week Online Faculty Development Program on eSim-A Free and Open Source EDA Tool "during 15.06.2020 to 19.06.2020, Organized by Department of Electrical and Electronics Engineering , Pragati Engineering College,Andhra Pradesh.
16. Attended in the webinar on “TinkerCAD for Designing Circuits using Arduino”, Department of Mechatronics Engineering, SNS College of Technology, Coimbatore on 24.06.2020.
17. Successfully completed One week STTP through ICT mode on “Programming and Automation using PLC”,organized by NITTTR, Kolkata from 08-06-2020 to 12-06-2020.
18. Two weeks Online Faculty Development Program on "Electric Vehicles with Smart Grid Integration" (Phase - I) organized by Department of Electrical and Electronics Engineering, Bonam Venkata Chalamayya Institute of Technology &Science, Amalapuram, Andhra P r a d e s h , l n d i a from 15-03-2021 to 27-03-2021.
19. AICTE Training And Learning (ATAL) Academy Online Elementary FDP on " Application of IOT in Agriculture" from 2021-07-06 to 2021-07-10 at Gandhi Institute For Technology (GIFT) Bhubaneswar.
20. AICTE Recognized Faculty Development Programme on Simulation of Smart Electric Vehicles(in collaboration with Typhoon HIL) Conducted by Electrical Engineering Department, NITTTR, Chandigarh from 18/07/2022 to 22/07/2022 (One Week)
21. FiveDay Online FDP “ELECTRONIC PLATFORM FOR BUILDING ELECTRONIC PROJECTS” Conducted by Faculty Development Training Centre, Government College of Technology, Coimbatore - 641 013 on 22nd to 26th August 2022
22. AICTE Training And Learning (ATAL) Academy Blended/Hybrid FDP on "Electric Vehicles" from 2022-12-12-2022-12-17 to 2022-12-19-2022-12-23 at Vivekananda College of Engineering for Women, Tiruchengode.

13. Grants Received to Organize the Seminar/Project

- Received Grants-in-aid Rs. 30,000/- from Indian Council of Medical Research (ICMR), New Delhi to conduct the two days National seminar on “Industrial Ergonomics” on 09-10th September 2014 at K. S. Rangasamy College of Technology, Tiruchengode – 637 215.
- Organized One week Virtual Training program on “ Best Industrial Practices in Health, Safety and Environment (HSE)” on 20th to 25th July 2020 at, K.S.Rangasamy College of Technology, Tiruchengode– 637 215
- Fund received from TamilNadu State Council for Science and Technology(TNSCST) Under Student Project Scheme (2021-2022) for the Project Titled ‘Development of IoT Based Electric Vehicle Battery’

14. Membership in Professional Bodies

- **Life Member**, Indian Society of Technical Education (ISTE),New Delhi – LM 64135.
- **Member (Life Member)** in Institute of Smart Structures and Systems (ISSS), Bangalore– LM 443.

15. Awards and Recognitions

- Received Best Paper Award 2008 for project work presentation in NCSSS-2008 on 12.02.2008

16. Research Activities

- **Area of Expertise/Research Interests**
 - Energy harvesting from Smart Materials
 - Power converter circuits for Low Energy Harvester
 - Internet of Things
 - Electric Vehicle.