

Name	Dr. U. SURESHKUMAR			
Contact (office)	HOD & Professor in Electrical and Electronics Engineering Department of Electronics and Communication Engineering M.I.E.T. Engineering College Trichy. ece.hod@miet.edu			
Email	ece.hod@miet.edu			
Educational Qualifications	DEGREE	EDUCATIONAL INSTITUTION	BOARD/ UNIVERSITY	YEAR OF PASSING
	Ph.D	Thiagarajar College of Engineering	Anna University	2015
	M.E (Applied Electronics)	Mohamed sathak engineering college	Madurai Kamaraj University	2002
	B.E. (EEE)	Thiagarajar College of Engineering	Madurai Kamaraj University	1997
Professional Career Profile	Organization	Designation	Date of Joining	Duration of work
	Mohamed Sathak Engineering College	Professor & Head	11/09/1998	10/05/2017
	Sethu Institute of Technology	Professor & Associate Dean	12/06/2017	10/07/2018
	M.I.E.T. Engineering College	Professor & Head	06/08/2018	Till Date
Awards & Recognitions	<ul style="list-style-type: none"> ➤ Innovative Research of the year / RULA Award was awarded in 2019. ➤ I have been selected as a member in the EXPERT PANEL OF AICTE -2019 for Research Institutions and Faculty Development Bureau (RIFD). ➤ I have been selected for "BHARATIYA SHIKSHA RATAN AWRAD" by ECONOMIC GROWTH FOUNDATION, NEW DELHI. ➤ Awarded Best Teacher Award in 2007 & 2009 ➤ International panel advisor of Elsevier Advisory Panel. ➤ Received Certificate of Reviewing from Elsevier Journals like Energy (Impact factor 4.8) & Energy Management & Conversion (Impact factor 4.7). ➤ ISO Internal Auditor at Mohamed Sathak Engineering College, Kilakarai from 2000 to 2017 ➤ Acted as a Session Chair Person for several National/International Conferences ➤ Seminar Grant received from DRDO for the title "SHOCKZ"12" in the year 2012 ➤ Received outstanding contribution award for reviewing Elsevier journal „ENERGY“ 2017 			

	<ul style="list-style-type: none"> ➤ <u>Produced 100 % Results in the following subjects</u> <ul style="list-style-type: none"> • Power quality • Renewable energy sources • Control system, • Transmission and distribution
Membership in Professional Bodies	MISTE (Life Member)
Academic Areas of Interest	Renewable Energy Resources
Administrative Capabilities	<p>Roles and Responsibilities in MIET Engineering College, Trichy</p> <ul style="list-style-type: none"> ➤ Head- EEE department ➤ One of the member in over all college admission committee ➤ Member in Research Committee ➤ NBA Coordinator of the Department ➤ Recruitment Committee member ➤ Enquire committee member for discipline /malpractice in examination <p>ADMINISTRATIVE DUTIES INVOLVED at SETHU INSTITUTE OF TECHNOLOGY</p> <ul style="list-style-type: none"> ➤ <u>Enquire committee member</u> for malpractice in examination ➤ <u>Teaching and Learning Committee</u> – over all College of Engineering ➤ <u>Convener of Research Committee</u> – EEE department ➤ <u>Scientific Committee</u> – EEE department ➤ <u>Library Committee</u> – EEE department ➤ <u>Laboratories and Facilities Committee</u> – EEE department ➤ <u>Recruitment Committee</u> – EEE department ➤ <u>Executive Dean</u>-Teaching and learning <p>ADMINISTRATIVE DUTIES INVOLVED MOHAMED SATHAK ENGINEERING COLLEGE</p> <ul style="list-style-type: none"> ➤ HEAD OF THE DEPARTMENT UG/PG (Mohamed Sathak Engineering College) ➤ Member in Syllabus formation committee for EEE (B. E.) PSE (M.Tech) ➤ ISO audit coordinator in EEE department. ➤ Adviser for the Students every year. ➤ Department simulation computer Lab in charge. ➤ Acted as Assistant Chief Superintendent in university examinations. ➤ Discipline committee ➤ Admission committee <p>Participation in Co-Curricular Activities</p> <ul style="list-style-type: none"> ➤ Faculty advisor ➤ NSS programmer officer

LIST OF PUBLICATIONS

Journal

1. **Sureshkumar U** & Manoharan PS 2014, „Economic analysis of hybrid power systems (PV/diesel) in different climatic zones of Tamil Nadu“, **Elsevier Journal Energy Conversion and Management**, vol. **86**, pp. **469-476 (ISSN: 0916-8904, Impact Factor: 2.76** – As indicated in Annexure I (S. No. 2549) of refereed journal list given in Anna University Portal).**SCOPUS/SCI Journal**
2. **SureshKumar U** & Manoharan PS 2014, „Feasibility of sensitivity analysis in potential area for standalone hybrid renewable energy in Tamil Nadu, India“, **Applied Mechanics and Materials**, (ISSN: **1660-9336**, as indicated (S.No.1493) of refereed journal list given in Anna University Portal), vol. 573, pp. 757-766. In Annexure II. **SCOPUS/SCI Journal**
3. **SureshKumar U** & Manoharan PS 2016, „Optimization and cost of energy of renewable energy system in health clinic building for a coastal area in Tamilnadu India using Homer“, **Research Journal of Applied Sciences, Engineering and Technology (ISSN: 2040-7467**, As indicated in (S.No.17354) of refereed journal list given in Anna University Portal), Annexure II. **SCOPUS**
4. **SureshKumar U** & Manoharan PS 2017, „Stand alone Wind/PV/Diesel Hybrid system for telephone transceiver Station in Tamilnadu Rural areas“, **International Journal of Applied Engineering Research (ISSN: 0973-4562**, As indicated in refereed journal list given in Anna University Portal), Annexure II. **SCOPUS/SCI Journal**
5. **Suresh Kumar U** & S. Vijayarajan "Feasibility Study of Optimization in Renewable Energy Penetration to an Isolated Hybrid Power Plant", **Published in International Journal of Trend in Research and Development (IJTRD), ISSN: 2394-9333**, Volume-4 | Issue-4, August 2017, **SCOPUS**
6. **Suresh Kumar U** & S. Vijayarajan "The Environmental Analysis of the hybrid Renewable energy Systems in Educational Institute, Tamilnadu, India." To be **published in IEEE 2018 Xplore Digital Library.**
7. **Suresh Kumar U** & S. Vijayarajan "A Comprehensive Economical and Environmental Analysis of the Renewable Power Generating Systems for Affiliated ANNA University College, Tamilnadu, India. ", **Published in Jour of Adv Research in Dynamical & Control Systems (JARDCS), ISSN: 1943-023X**, Volume-10 | Issue-9, August 2018, **SCOPUS/SCI Journal.**
8. **Suresh kumar U** & .P. Yoganathan"" Design Optimization, Sensitivity Analysis and Optimal System Types of Hybrid Renewable Energy Systems: A Case of Health Care Clinic Building in India ""**International Journal of Computational Engineering Research (IJCER) ISSN: 2250 – 3005**, Volume- 08 Issue-12, December – 2018.

9. **Suresh kumar U & D. Jayaraj** „Horizontal Axis Sun Tracking System Is Implemented through Arduino Microcontroller for Rural Healthcare Buildings “**International Journal of Scientific Research and Review ISSN NO: 2279-543X** Volume 7, Issue 12, 2018.

Conferences International

1. **SureshKumar U** 2010, „Fuel cost minimization using an improved particle swarm optimization“, 1st International conference on Intelligent information systems and management-(**IISM'2010**)
2. **SureshKumar U, Manoharan PS & Ramalakshmi APS** 2012, „Economic cost analysis of hybrid renewable energy system using HOMER“, IEEE International Conference on Advanced Engineering, Science and Management (**ICAESM-2012**), pp.94-99.
3. **SureshKumar U & Manoharan PS** 2015, „A comprehensive economical and environmental analysis of renewable generating stations for Mohamed Sathak Engineering College using HOMER, International Conference on Emerging Trends in Engineering and Technology (**ICETET'15**).
4. **SureshKumar U & Sivakumar K** 2016, „Sensitivity analysis in standalone hybrid renewable energy power system international conference on emerging trends in engineering and technology (**ICETET'16**).

National

1. **SureshKumar U & Manoharan PS** 2015, „Optimization of sizing in standalone hybrid wind/ PV by reliability“, National conference on “Innovative in Engineering and Technology for Societal Needs (**NCIETS'15**).
2. **SureshKumar U & Manoharan PS** 2015, „Optimization of sizing and cost of energy in standalone hybrid wind/PV/ system by LPSP“, National conference on “Innovative in Engineering and Technology for Societal Needs (**NCIETS'15**).
3. **SureshKumar U & Subramanian P.G Scholar**, 2008, „PID core for Industrial SOPC multiaxis controllers by using VHDL“, Fourth National conference on““ (**PEDC'08**).
4. **SureshKumar U & MuhamedDeen H** 2008,„Resent trends in power systems““ Second National conference on““ (**APECT'08**).
5. **SureshKumar U** paper titled “FACT devices (Recent Trends in Power Systems)” is presented in First national conference on advanced in power engineering &control technology held on 23th FEB 2008 at - Francis Xavier Engineering College, Tirunelveli.

6. **SureshKumar U** paper titled “(Near Field Communication) Based Smart Home Network” **is presented in Emerging trends in IT** held on 19 & 20 th 2008 at Mohammed Sathak Engineering College, Kilakarai.
7. **SureshKumar U** paper titled “PID Controller System on Chip for Industrial Control by Using VHDL” at Acc. Tech., Karaikudi.
8. **SureshKumar U** “Pulse with Modulation of Impedance Source Inverter for PmpIDrives” at the Indian College Of Engineering, Vadakkankulam.
9. **SureshKumar U** “A New Simplified Multilevel Inverter Topology for Dc-Ac Conversion by Using PIC Controller” at Saint Peter’s College Of Engineering, Avadi.
10. **SureshKumar U** “Fuzzy Based Heavy Furnace Oil Temperature Control” at KLNIT College of Engineering.

List of Keynote speaker in guest lecture/FDP

- Delivered a Guest lecture on “**Renewable energy sources**” at **Syed Ammal Engineering College, Ramanathapuram** November 2014.
- Delivered special talk Faculty Development Programme sponsored by AICTE on the topic “**Efficient Power generation from non convection energy sources**” 2015 at **Ganapathy Engineering College, Meelakavanur**.
- Delivered an invited talk on Faculty Development Programme sponsored by AICTE on the topic “**Basic in solar power generation**” organized by Department of EEE, **Mohammed Sathak Polytechnic College 2015**.
- Delivered an Invited Talk on Anna University Sponsored **Faculty Development Programme** on 16th June 2014 organized by Department of Electronics and communication Engineering, **Syed Ammal Engineering College, Ramanathapuram**.
- Delivered a Technical Talk in National Level Workshop on “**Tool used in hybrid energy system**” 2016 organized by Institution of Engineers (IEI) Students Chapter, **Anna University, Ramanathapuram**.
- Delivered an invited talk on “**HOMER tool for renewable energy generation**” at **Thiyagarajar College of Engineering** 2016.
- Delivered an invited talk on “**Renewable energy sources**” at **Showdambiga Polytechnic College, Aruppukottai** 2017.
- Delivered an invited talk on “**Renewable energy sources**” at **MIET Polytechnic College, Trichy 2019**.

Sponsored Program Conducted (External Funded)

Shockz" 12 Sponsored by **DRDO**, Ministry of Defence, Govt of India **Rs.25, 000**

Alternate Energy Sources Funded by **Institute of Energy Studies**, Anna University **Rs.65, 000**

List of Book's published

1. **Basic electrical and electronics**(for the all 1st year Circuit branch Engineering) #,
2. **Circuit theory** (for the 1styear (EEE/ECE) Engineering)#,
3. **Fundamental of communication network** *
4. **Power Electronics for Renewable Energy System** *
5. **Principles of Management** *

Charulatha Publication

* **LAMBART Academic Publication**

List of MoUs Signed

1. VI micro system Chennai (for final year projects with placement)
2. Prolific Automation system (Training for staffs and students)
3. Kamachi transformer (for design transformer and placement)

List of Short Term Training Programme / FDP/ Seminar/Workshops attended

- Attended FDP in "NATIONAL WELD MEET" sponsored by **The Indian Institute of Welding**, Chennai Branch at Mohamed Sathak Engineering College, during 05-06 May 2014.
- Attended a Short Term Training Programme on "**Recent Trends in Power system and drives**" at Jayaram Engineering College, Thuraiyur during 19-27 May 2013.
- Attended a workshop on "**VLSI Wireless Communication Network**" on 22nd March 2008 at Oxford Engineering College, Trichy
- Attended **TEQIP** sponsored Workshop on "**Power Quality Analysis**" at Alagappa College of Engineering & Tech., Karaikudi September 20th 2007.
- Attended one day seminar on "**Recent Trend in Nano Science and Technology**" on 15th November 2007 at Mohamed Sathak Engineering College, Kilakarai.

- Attended one day seminar on "Patent **Awareness Programme**" at Mohamed Sathak Engineering College, Kilakarai.
- Attended one day seminar on "Software Quality Development Programme" at Mohamed Sathak Engineering College, Kilakarai.
- Attended **MHRD** sponsored Workshop on "TECHNICAL ENHANCED EARNING" at Mohamed Sathak Engineering College, Kilakarai on 23rd February 2010.
- Attended **AICTE** sponsored FDP on "**Research metrologies' and issues in engineering**" at TCE Madurai. From 12 Dec to 24 Dec 2011.
- Attended **MHRD NITTTR** sponsored SDP on "**Instructional design and delivery** " from 06 to 08 July 2008 at Mohamed Sathak Engineering College, Kilakarai
- Attended **CFD** sponsored Workshop on " Software **Quality Development Programme**" at Mohamed Sathak Engineering College, Kilakarai during 03-15 December 2007.
- Attended a two day workshop on "**Application of intelligent optimization techniques using MATLAB-7.0**" at Mohamed Sathak Engineering College, during 29-30 May 2011.
- Attended a FDP on "**Management education and case methods as Pedagogy**" at Mohamed Sathak Engineering College, Kilakarai 17th Feb 2006.
- Attended a National Workshop on "VLSI Technology" Mohamed Sathak Engineering College, Kilakarai. 13th 2010.
- Attended two days technical symposium on "SPARK 2K8" on during 25th - 26th September 2008. at JJ College of Engineering Trichy
- Attended a State level Science and Technical Exhibition "ELECTRO EXPO" 2K8" at M.P. Nachimuthu Engineering College, Chennimalai, Erode during 6th - 7th Feb 2008.
- Attended a one day technical symposium on "Embedded system based transformer" at K.L.N. College of information technology, Madurai 19th Sep 2008.
- Attended a national technical symposium on "Minzaar „08" at Sai Ram engineering college, Chennai 06th August 2008.

- Attended a one day technical symposium on "Automatic smoke detector and fire preventer" at TCE, Madurai on during 23th - 17th February 2008.
- Attended a two day National level workshop on "Embedded systems" at **SETHU INSTITUTE OF TECHNOLOGY**, Madurai on during 17th - 18th August 2017
- Attended a two days National level workshop on "Pedagogy for outcome based education" at **SETHU INSTITUTE OF TECHNOLOGY**, Madurai on during 13th -14th February 2017.
- Attended a two days National level workshop on "Embedded systems using Arduino" at **SETHU INSTITUTE OF TECHNOLOGY**, Madurai on during 5 - 6th October 2017.
- Attended a one day **international seminar** on "Drive the future with biosensor and bioelectronics" at **MIET institute**, Trichy on during 8th march 2019.
- Attended a one day **INDO-AUSTRALI workshop (Sponsored)** "Nano material for application in agri, Energy, Environment" at **NIT, Trichy** on during 23rd Jan 2020.