

FACULTY PROFILE

Name of the Staff Dr. S. SENTHIL KUMAR., Ph.D.

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Google Scholar Link <https://scholar.google.com/citations?user=G81RHmAAAAAJ&hl=en&scioq=senthil+kumar+orcid.org/0000-0001-5910-1322>

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1. Personal Details:

Age : 44
Date of Birth : 03/03/1976
Sex & Marital Status : Male, Married
Citizenship : Indian
Qualification : M.E, PhD.

Degree	Programme and Specialization	Class /CGPA	Month & Year of Passing	Institute/University
B.E	EEE	First class	April 1999	National Engg College, MS University. Tirunelveli.
PG Diploma	Industrial Safety	First class	April 2005	Annamalai University.
M.E	High Voltage Engineering	First class	April 2009	National Engg College, Anna University Tirunelveli.
Ph. D	High Voltage Engineering	First class	May 2018	Anna University, Chennai.

Date of joining : 14/12/2011
Present status : Asst Prof(SG) / EEE.

1. Research Achievements:

1.1 Anna University, Chennai –Guide ship Reg no: 3230001

1.2 National Conference Publications:

S.No	Title of the Paper	Organizer	Month/Year
1	Analysis of Pollution Performance of Insulator Under Artificial Polluted.	Government College of Engineering, Tirunelveli	2 nd April, 2009

1.3 International Conference Publications:

S.No	Title of the Paper	Name of the Conference	Organizer	Month & Year
1	Comparative Analysis of Dielectric and Thermal Properties of Mineral oil and Vegetable oil	IIST - 2013	Sun College of Engineering and Technology	2013
2	Analysis of vegetable liquid insulating medium for application in high voltage transformers	ICSEMR 2014	Vel Tech MultiTech Engineering college	Nov 27-29 2014
3	Analysis of critical parameter of vegetable oil as an alternate dielectric fluid to mineral oil	IEEE International Conf. on intelligent systems and control	Karpagam college of engineering, Coimbatore.	7th -8th Jan 2016
4	Investigation on the properties of natural esters blended with mineral oil and pyrolysis oil as liquid insulation for high voltage transformers	International Conference on Artificial Intelligence, Smart Grid and Smart City Applications	PSG College of Technology BEST PAPER AWARD	2016
5	“Investigation Of Various Natural Esters Insulating Medium For Application In High Voltage Machinery”	“International conference on Contemporary Engineering and Technology”	Prince shri venkateshwara padmavathy Engineering and Technology	March 10 th , 2018
7.	“Investigation of the properties of Natural Antioxidants and Synthetic Antioxidants”	4th International Conference on Computing Communication and Automation (ICCCA)	Galgotias University, Noida, Delhi	Dec, 14-15, 2018
8	“Investigation of the Properties of Sunflower Oil with Antioxidants and Nanopowder”	International Conference on Artificial Intelligence, Smart Grid and Smart City Applications (AISGSC 2019) Department	PSG College of Technology, Coimbatore	3-5 January, 2019
9	“Simulation Of Impulse Overvoltage”	7th “International conference on Contemporary Engineering and Technology	Prince shri venkateshwara padmavathy Engineering and Technology, Chennai	March 10 th , 2019

1.4 International Journal Publications:

S.No	Title of the Paper	Name of the Journal	Publisher	Month & Year
1	“Investigations on Suitability of Rice Bran Oil and Corn Oil as Alternative Insulating Liquid for Transformers”	IEEJ Transactions on Electrical and Electronic Engineering (TEEE) Vol. 11, No. 1, pp. 10-14. impact factor:0.23, (Thomson Reuters, JCR) (Annexure-I)	John Wiley publishers	Jan, 2016
2	“Effect of Antioxidants on Critical Properties of Natural Esters for Liquid Insulations”	IEEE Transactions on Dielectric and Electrical Insulation (2016) Vol. 23, No. 4, pp.2068-2078, impact factor:1.3,(Thomson Reuters,JCR) (Annexure-I)	IEEE	Sep, 2016
3.	“Performance Of Activated Bentonite And Carbon In Reclaiming the Properties Of Used Mineral Oil”	Journal of Electrical Engineering: Volume 17, No:3 , pp.407-415 (Annexure – I),	University "POLITEHNICA" Timisoara, Romania, Faculty of Electrical and Power Engineering	Aug ,2017
4.	“Investigation of Various Natural Esters Insulating Medium for the Applications in High Voltage Machinery”	International Journal of Advanced Research in Basic Engineering Sciences and Technology, ISSN (ONLINE):, Vol.4, Issue.5,pp: 2456-5717.	IJARBEST	May 2018.
5	“A comparative investigation on effects of nanoparticles on characteristics of natural esters-based nanofluids”.,,	Colloids and Surfaces, Elsevier, No:556, pp:30–36. IF=2.89	Elsevier	August,2018
6	“Wastage Pay Smart Bin”	International Journal of Engineering & Technology, United Arab Emirates (UAE) (SCOPUS INDEXED), Vol 7, No: 4.6, pp:193-197	IJET	Oct 2018.
7.	“Examining the Properties of Neem Oil, Sunflower Oil and Mahua Oil with Antioxidants and Nano Powders for Power Transformer”	American Journal of Electrical and Computer Engineering, (SCOPUS INDEXED) Vol. 3, No. 1, 2019, pp. 20-29.	AJECE	June, 2019
8.	Optimization of Various Natural Ester Oils Impregnated Nomex Paper Performance in Power Transformer Applications under	International Journal of Recent Technology and Engineering, ISSN: 2277-3878, Volume-8 Issue-3.	IJRTE (Scopus Indexed)	September 2019

	Different Ageing Conditions			
9.	Stability Analysis of Solar Assisted Dc-Dc Y-Source Boosting Topology Using State Space Model	SYLWAN Journal, Poland, PP:158-168.	SYLWAN, Publication, IF:0.632	December,2019
10.	Multi-Response Optimization of the Properties of Mineral Oil Blended With Natural Ester Oil Using desirability-Based Methodology	International Journal of Scientific & Technology Research, Volume 9 – issue 2.	IJSTR (Scopus Indexed)	February 2020.
11	Experimental Investigation on Room Temperature Vulcanised Silicone rubber and Epoxy resin coated porcelain outdoor insulators located at highly polluted environment	Journal of Ceramic Processing, 21(1): 14-20	Publisher Anyang University, 222, Wangsimni-ro, Seongdong-gu, Seoul, 04763, Korea ISSN : 1229-9162 (Print) 2672-152X (Online)	Feb 28, 2020
12.	Examining the Properties of Natural Ester Oils with Antioxidants and Nano Powders for Power Applications	‘International Journal of Recent Technology and Engineering, ISSN: 2277-3878 (Online), Volume-8 Issue-6,. Page No.: 605-610	Publisher by ‘Blue Eyes Intelligence Engineering and Sciences Publication’	March, 2020

1.5 Reviewer in International Journal:

- Journal of Electrical and Electronics Engineering (Springer).
- IET Science and Measurement Technology.
- IET Generation Transmission Distribution.

1.6 Project Fund Received:

S.NO	Title of the Project	Fun Agencies	Amount (Rs)	Year
1	“Wastage Pay Smart Bin”	EDC NEWGEN(DST)	Rs.2.5 Lakhs	Oct 2018-Dec 2019.

1.7 Patent publication:(Application No.202041006564 A)

S.NO	Title of the invention	Name of Inventor	Fun Agencies	Amount (Rs)	Publication Date
1	“AUTOMATIC WASTE SEGREGATING BIN”	<ul style="list-style-type: none"> • S. Senthil Kumar • B. Venkatasamy • K.Logeswarabalan • M.Mafin Rijoe • V.Nalla Selva Prakash • A. Ravikumar 	EDC NEWGEN(DST)	Rs.2.5 Lakhs	21/02/2020

2 Experience details:

2.1 Industrial Experience:

Designation	Institution/ Organisation	Period	Nature of Duties
Field Supervisor	Al- kulaib Ramasamy Pvt Ltd... Kuwait.	02.06.2000 – 31.05.2004	Erection and Maintenance of Transformer, surge arrestor, gantry, circuit breaker, Transmission & Distribution Towers, from 3.3 kv to 400kv
Site Electrical Engineer	Al- kulaib Ramasamy Pvt Ltd... Kuwait	05/09/2009 - 05/09/2011	

2.2 Professional Experience:

Designation	Institution/ Organisation	Period	Nature of Duties
Lecturer	Lakshmi Ammal Polytechnic college	02.06.2004 – 31.08.2007	Teaching, Lab Handling, Counseling, Motivating,
Asst. Prof.	National Engineering College, K.R.Nagar, Kovilpatti.	14/12/2011- 30.07.2018	Initiating, Supervising and Guiding
Asst. Prof(SG).	National Engineering College, K.R.Nagar, Kovilpatti.	01.08.2018- Till Date	

3. Academic Achievements:

3.1 Courses taught:

Course Title	U.G. or P.G.
Basic Electrical And Electronics Engineering	U.G
Electrical Drives And Control	U.G
Non conventional energy	U.G
Electric Energy Utilization and Conservation	U.G
Fibre optic and Laser Instruments	U.G
Power Plant Engineering	U.G
Electrical Engineering	U.G
Project Management and Finance	U.G
Energy Auditing and Management	U.G
Protection and switchgear	U.G
Electrical Machines I Laboratory	U.G
Electrical Machines (Ece) Laboratory	U.G
Electrical Circuit Laboratory	U.G
Electrical Machines (Mech) & Control Laboratory	U.G
Electrical Engineering lab	U.G
High voltage switch gear	P.G
Insulation Technology	P.G
High voltage Lab -I	P.G
High voltage Lab -II	P.G

3.2 Short term Courses / Seminars / Conference/ Workshops Attended:

SINo	Title	Period	venue
1	Soft Computing Techniques	12.10.2007	National Engineering College, Kovilpatti
2	Recent Trends in High Voltage Engineering and Technology	3.10.2008	National Engineering College, Kovilpatti
3	Wind Energy Systems	29 th & 30 th 2008	National Engineering College, Kovilpatti
4	Artificial Intelligence based Electrical Machines and Drives	19 th & 20 th 2009	National Engineering College, Kovilpatti
5	Train the Trainers(Empowering the faculty)	20, to 23 Dec 2011	National Engineering College, Kovilpatti
6	Evolutionary Algorithms and its Applications	18.08.2012	Sardar Raja College of Engineering, Alangulam.
7	Energy Efficient Artificial Intelligence Drives – Recent Trends and Perspective	14 th & 15 th September 2012	National Engineering College, Kovilpatti
8	Research Methods for Academicians, Research Scholars and Practitioners	17 th November 2012	National Engineering College, Kovilpatti
9	Dst sponsored two days national level technical seminars “AITRES '12 “	20th and 21 st January 2012.	National Engineering College, Kovilpatti.
10	Introduction of Nanotechnology	8 th & 9 th March 2013	Regional Centre of Anna University Tirunelveli
11	A Hands on Seminar on LATEX essentials for beginners	14/06/2013 and 15/06/2013/two	National Engineering College, Kovilpatti
12	Workshop on “High voltage Insulation Testing, Measurement and Simulation Techniques”.	28 th September 2013	Sastra University, Thanjavur.
13	AICTE Sponsored short term courses on “Recent Trends In Condition Monitoring Of Power Apparatus and systems” Organized by the department of electrical engineering,	14 -18 october,2013	IIT Madras, Chennai
14	CSIR Sponsored One day National level Technical Seminar on “Recent Advancements in the field of High Voltage	27 th December 2013	National Engineering College, Kovilpatti.
15	Introduction of Nanotechnology	8 th & 9 th March 2013	Regional Centre of Anna University Tirunelveli
16	AICTE sponsored on day CD-Cell workshop on “Research Themes on High Voltage Technology”	8 th February 2014	Indian Institute of Technology, Madras
17	UGC sponsored National Workshop on Emerging Trends in Nano materials for Engineering Applications [ETNEA 2014]	21- 22 Feb 2014	Madras Institute of Technology Campus
18	Centre for Faculty Development Anna University Chennai Sponsored FDP on EE6302-EMT.	16-22 June 2014	MNM Jain Engineering College.
19	Anna University-Tirunelveli Sponsored Technical Seminar on “High impact Journal Writing and Publishing”	25- Sep-2014	Regional office :Anna University-Tirunelveli
20	ISTE TN & DST sponsored “Empowering Indian Engineering for Global Expectations”	07 – 08-Nov- 2014	National Engineering College, Kovilpatti
21	Centre for Faculty Development, Anna University Chennai Sponsored FDTP on	08-14-Dec-2014	National Engineering College, Kovilpatti

	“EE2353-High Voltage Engineering” delivered guest lecture		
22	Centre for Faculty Development, Anna University Chennai Sponsored One day workshop on “Research Methodology”	15-12-2014	Anna University Chennai
23	National Programme on Technology Enhanced Learning Sponsored by IITM - NPTEL Workshop	13-Mar-2015	National Engineering College, Kovilpatti
24	Centre for Research, Centre for international Affair and crystal Growth centre, Anna University Chennai organized a short course on”How to do a good Research Thesis”	03-05 Aug 2015	Anna University Chennai
25	National level workshop on “smart grid and integration of renewable sources”	16-18, Feb. 2016	SRM University.
26	An Anna University –Chennai Sponsored seven days FDTP on EE6701 –HIGH VOLTAGE ENGINEERING	1 - 8 Jun 2016	St Josephs Institute of Technology,chennai
27	National institute of Technical teachers Training & Research-Government of India conduct training programme on “TECHNOLOGY ENABLED LEARNING PROCESS”	27 - 29 may 2017	National Engineering College
28	National institute of Technical teachers Training & Research-Government of India conduct training programme on “INSTRUCTIONAL DESIGN AND DELIVERY SYSTEMS”	22 -27 may 2017	National Engineering College
29	Training on “Protection Relay- P14D” by GE T&D India Ltd, Chennai	24-10-2017 & 25-10-2017	National Engineering College, Kovilpatti
30	An AICTE –Sponsored Two weeks FDTP on “recent Trends and Applications of High voltage Engineering”	Nov,06-19,2017	National Engineering College, Kovilpatti
31	AICTE Sponsored short term courses on “Recent Trends In Condition Monitoring Of Power Apparatus and systems” Organized by the department of electrical engineering,	14 -18 Feb,2018	IIT Madras, Chennai
32	Three days training program on the Topics” Hands on training on Power Transformer”	30/05/2018 to 01/06/2018	Shri Abirami Engineering works company,SAEW, Chennai
33	Five days One Week Self-Sponsored Program on “Energy Management and Energy Audit” organized by Department of Energy and Environment,	20.08.2018 to 24.08.2018	National Institute of Technology, Trichirapalli
34	Seven days one week –TEQIP Sponsored program on “Applied soft computing-Theory and Practice	22.04.2019- 28.04.2019	PSG Tech, Coimbatore.
35.	Two days online FDP on “Intelligent Controller for Renewable Energy Systems”	02.06.2020 and 03.06.2020	" Organized by Electrical and Electronics Engineering Department of P.S.R Engineering College, Sivakasi
36.	One-week FDP "Research Opportunities on Electrical Engineering and its Applications"	18.05.2020 to 23.05.2020.	" Organized by Electrical and Electronics Engineering Department of P.S.R Engineering College, Sivakasi

37.	Attended the webinar on " Writing an Effective Research Paper Means and Methods	08.06.2020.	RVS COLLEGE OF ENGINEERING AND TECHNOLOGY.
38.	WEBINAR on Opportunities inspiring Stories about Programming in Software Companies by Future Electric Grid	08.06.2020	Chennai Institute of Technology Kundrathur, Tamil Nadu,
39.	One-week Faculty Development Program on "Challenges and Innovations in Electrical Engineering Systems"	09 – 13 June, 2020.	Department of EEE, Karpagam College of Engineering, Coimbatore.
40.	Webinar on "Recent advances in on-line condition monitoring of transformers"	19.06.2020	P.S.R Engineering College (Autonomous) Sivakasi.
41.	webinar on “Art of Writing a Survey paper for Research”	26th June 2020 from 10-11 am.	Department of Electrical and Electronics Engineering, Amal Jyothi College of Engineering

3.3 NPTEL Online certification:

- 1.Topics on “Introduction to research”, Apiril,2017.
- 2.Topics on “Effective Teaching and Learning” Apiril,2018.
- 3.Topics on “Advanced trends in Transmission and Distribution” Apiril,2019.
- 4.Topics on “Introduction on soft computing”, June ,2020

3.4 Coursera Online Courses Certification:

1. Completed the course on” **Safety in the Utility Industry** “an online on credit course authorized by University at Buffalo and The State University of New York and offered through Coursera,June,2020.
2. Completed the course on” **Introduction to Power Electronics**” “an online on credit course authorized by University at Buffalo and The State University of New York and offered through Coursera, Apiril,2019.

3.5 Udemy Online Courses Certification:

1. Completed the course on” **AUTOCAD-Electrical Design,2020**” “an online on credit course authorized by UDEMY, May,2020.

3.6 Programme Organized:

- Organized A Webinar Program on The Topic ““Industry Expectations From Academia”.
1. On 12.06.2020(Fri), June 2020, @ 10.30.- 12.00.Pm.
2. Organized A Webinar Program on The Topic “Carrier Opportunities In Advanced Driver Assistance Systems (ADAS) And Autonomous Vehicles” On 9.06.2020(Tuesday), June 2020, @ 10.30.- 12.00. Pm.
3. Organized A Webinar Program on The Topic “Digital Substation and Carrier Opportunities In Substation Automation”, 29.05.2020(Fri), May 2020, @ 10.30.-

12.00. Pm

4. Organized A Webinar On “Opportunities and Challenges In Power Electronics For Electric and Hybrid Vehicles”, Date: 23.05. 2020.Time: 12.00 Pm To 01.00 Pm.
5. Organized A Webinar On “Opportunities and Challenges In Elevators And Escalators”, 13.05.2020(Wednesday), May 2020, @ 5.00.- 6.00. Pm.
6. Two Day’s Workshop “Electrical AutoCAD Design” ‘Organized by Department Of Electrical and Electronics Engineering, National Engg College From 27/2/2017 To 28/2/17(2 Days)
7. Anna University Sponsored Seven Days FDTP ON “EE2353- HIGH VOLTAGE ENGINEERING” Organized by Department of Electrical and Electronics Engineering, National Engineering College From 08.12.2014 To 14.12.2014(7 Days).
8. MNRE Sponsored One Day National Level Conference “ELCON’13, RESEARCH ISSUES IN RENEWABLE ENERGY & CONSERVATION” Organized By Department of Electrical and Electronics Engineering, National Engineering College From 20.03.2013 (1 Day)
9. CSIR Sponsored One Day National Level Seminar” RHVTT’13, Recent Advancements In The Field of High Voltage Testing Techniques “ Organized by Department Of Electrical And Electronics Engineering, National Engineering College From 27.12.2013 (1 Day)
10. CSIR Sponsored One Day National Level Seminar” RHVTT’12, Recent Advancements In The Field of High Voltage Testing Techniques” Organized by Department of Electrical And Electronics Engineering, National Engineering College From 23.11.2012 (1 Day)

3.5 Industrial Training Attended:

S. No	Training Details	Period	Company Details
1.	Faculty Internship Training on “High voltage Testing Equipments” under the scheme “ INDUSTRIAL KNOW-HOW ”	05 th – 09 th Jun 2017	Global Power Research Institute, Cuddalore.
2.	Faculty Internship Training on “ INDUSTRIAL KNOW-HOW ”	30 th – 04 th Dec 2018	OPG Power Generation Pvt Ltd.Chennai

4. Additional Responsibilities held:

- High voltage Lab I/C
- Tutor
- Class-in-charge
- Exam Cell
- Youth Welfare Association I/C
- Library I/C

- Furniture I/C
- NAAC
- NBA
- NEC's Grievance Redressal Portal



Signature

(Dr.S. Senthil kumar)