

FACULTY PROFILE

Name: : **Mr.P.SAMUEL PAKIANATHAN**
Official Address with E-mail Id : Assistant Professor,
Department of EEE,
National Engineering College,
Kovilpatti
samjerry.1135@gmail.com
samuelpakianathan@nec.edu.in
Mobile Number : 9894231821



1. Personal Details

Age : 36
Date of Birth : 07/06/1987
Sex & Marital Status : Male / Married
Citizenship : Indian
Religion : Christian

Qualification

Degree	Programme and Specialization	Class /CGPA or Percentage	Month &Year of Passing	Institute/University
PhD	Electrical Engineering-(High voltage Engineering- Liquid dielectrics)	Thesis Submitted	-	Anna University, Chennai
M.E	HVE	1 st Class with Distinction	June 2013	National Engineering College, Kovilpatti.
B.E	EEE	1 st Class	April 2009	Government College of Engineering, Tirunelveli.

Date of joining : 07/05/2013
Present status : Assistant Professor

Industrial Experience

Designation	Organization	Period	Nature of Duties
Plant Engineer	Dalmia Cements Bharat Limited, Dalmiapuram, Trichy.	2 Years	Planning & Plant Maintenance.

2. Academic Identity:

ORCID ID	0000-0002-8843-203X
Scopus ID	55754186000
Google scholar ID	https://scholar.google.co.in/citations?user=VEe5BZQAAAAJ&hl=en
Vidyan ID	2114120

Researcher ID	44334
Citations	137
H - Index	4
i-10 index	3
AICTE id	1-2187289324

3. Academic Achievements

3.1 Courses taught:

Course Title	U.G. or P.G.
Electromagnetic Field Computation and Modeling	P.G.
Insulation Design of High Voltage Power Apparatus	P.G.
Electrical Machines-II	U.G.
Protection and switchgear	U.G.
Electronic Devices and circuits	U.G.
Design of Electrical Apparatus	U.G.
High Voltage Engineering	U.G.
Electrical machines Laboratory	U.G.
Electronic devices Laboratory	U.G.
Microprocessor and Microcontroller laboratory	U.G.
Power System simulation and High Voltage laboratory	U.G.
High voltage Laboratory I	P.G.
High Voltage Laboratory II	P.G.
Research paper and Patent Review Seminar	P.G.
Electronic Circuits	U.G.
Electronic Circuits Laboratory	U.G.
Power Quality	U.G.
Professional Ethics and Human Values	U.G.
Analog Electronics	U.G.
Insulation Technology	P.G.
Comprehension Lab	U.G.
Analog Electronics	U.G.
Digital Electronics	U.G.
Electromagnetic Interference and Electromagnetic Compatibility	P.G.
Basic Electrical and Electronics engineering`	U.G.

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

Sl. No	Title	Period	venue
1	TEQIP, Tribal Development Plan, Communication skills	1 Day 9 th August, 2007	Government College of Engineering, Tirunelveli
2	TEQIP, Tribal Development Plan, Training the Brain	2 Days 13 th and 14 th August, 2007	Government College of Engineering, Tirunelveli
3	TEQIP, Tribal Development Plan, Trouble Shooting on Electrical Machines	1 Day 5 th September, 2007	Government College of Engineering, Tirunelveli
4	Cement Manufacturing Technology	2 Months 27 th July to 25 th September, 2009	National Council for Cement and Building Materials, New Delhi.

5	Anti-Tobacco Awareness Training	1 Day 12 th February 2009	Government College of Engineering, Tirunelveli
6	Maintenance of Electrical Equipment	2 Days 22 nd and 23 rd February, 2010	Regional Training Center, Dalmiapuram, Trichy
7	CSIR sponsored National Level Technical Seminar on "Design, Modeling and Control of Electrical Machines using Artificial Intelligence"	2 Days 28 th and 29 th October 2011	National Engineering College, Kovilpatti.
8	DST sponsored National Level Technical Seminar on "Application of Artificial Intelligence Techniques in Renewable Energy Systems"	2 Days 20 th and 21 st January 2012	National Engineering College, Kovilpatti.
9	Technical Seminar on "Media Security: A set-theoretic framework for Data Hiding" delivered by Dr. Gaurav Sharma, Professor, Department of Electrical and Computer Engineering, University of Rochester, USA.	1 Day 29 th August 2012	National Engineering College, Kovilpatti.
10	Training Programme on "Introduction to Industrial Electrical System"	3 Days May 21 st to 23 rd -2013	L & T Switchgear Training Centre, Coonoor.
11	One day workshop on "High Voltage Insulation Testing, Measurement and Simulation Techniques"	1 Day 28 th September 2013	SASTRA University, Thanjavur
12	AICTE sponsored on day CD-Cell workshop on "Research Themes on High Voltage Technology"	1 Day 8 th February 2014	Indian Institute of Technology, Madras
13	FDTP on Electromagnetic Theory	12 th June to 17 th June 2015	Vellalar College of engineering, Erode
14	FDTP on Design of Electrical apparatus	7 days 16 th to 25 December 2016	University college of Engineering, Dindigul
15	One week industrial know how program	08 th May to 13 th May 2017	Andrew Yule company Limited, Chennai.
16	Training on teaching learning skills	22 nd may to 27 th May 2017	NITTTRC, Chennai
17	Technology enabled learning	28 th may to 30 th May 2017	NITTTRC, Chennai
18	OBE and its implementation	31 st May 2017	National engineering college, Kovilpatti
19	One day Workshop on 'High voltage Engineering-Adaptability to Smart Grid'	14 th July 2017	IIT Madras & Section-V committee of INAE, New Delhi.
20	Two Weeks AICTE sponsored faculty development program on	6 th - 19 th November	National Engineering College,

	“Recent trends and Applications of High Voltage Engineering”	2017	Kovilpatti
21	One week Industrial Know how Programme	07 th to 11 th March 2018	Associated Transformer Private Limited, Dindigul
22	Short term course (STC) entitled" Recent trends in condition monitoring of power apparatus and systems"	19 th to 24 th February 2018	IIT Madras, Chennai
23	Short term training programme on “Introduction to smart materials with energy harvesting Applications”	02 nd to 07 th September 2018	IIT Madras, Chennai
24	One-week AICTE sponsored faculty development programme on “Hands on approach to semiconductor device physics education “	06 th to 10 th May 2019	IIT Bombay, Buwai
25	One week FDP on Recent Advances in Condition Monitoring of Power Equipment	25 th to 30 th January 2021	National Institute of Technology Calicut.
26	One week Industrial Know how Programme	22 nd to 26 th February 2021	Global Power Research Institute, Cuddalore
27	One Week Faculty Development Program on “Electronic Circuits I”	24.05.2021 to 29.05.2021	Anna University, Chennai
28	One Week Industrial Know How Programme	10.01.2022 to 14.01.2022	Progen Renewable Private Limited, Coimbatore.
29	One-week International Faculty Development Programme on Recent Computational Strategies for Condition Monitoring of High Voltage Equipment	18.09.2021 to 21.09.2021	Electronics and ICT Academy, National Institute of Technologies, Patna
30	One week Industrial Know how program.	09.08.2022 to 13.08.2022	Regen Infrastructure and Services Private Limited, Theni

3.3 Short term Workshops Organized:

Sl.No	Title	Period	Venue	Participants
1	AICTE Sponsored Faculty Development Programme on “Recent Trends and Applications of High Voltage Engineering”	14 Days 6 th to 19 th November 2017	National Engineering College, Kovilpatti	34

3.4 Online Certification Completed:

S. No	Certification	Period	Organizers
1.	NPTEL Online Certification on "Introduction to Research"	January-February 2016 (10 Hours)	Indian Institute of Technology (IIT), Madras
2.	NPTEL Online Certification on "Electrical Machines - I "	January – February 2017 (12 weeks)	Indian Institute of Technology (IIT), Kharakpur
3.	NPTEL Online Certification on "Fundamentals of Electrical Engineering"	October 2018 (12 weeks)	Indian Institute of Technology (IIT), Kharakpur
4.	NPTEL Online Certification on "Basic Electric Circuits"	October 2019 (12 weeks)	Indian Institute of Technology (IIT), Madras
5.	NPTEL Online Certification on "Recent Advances in Transmission Insulator"	April 2020 (4 weeks)	Indian Institute of Science, Bangalore.
6.	NPTEL Online Certification on "Advances in UHV Transmission and Distribution"	November 2020 (12 weeks)	Indian Institute of Science, Bangalore.
7.	NPTEL Online Certification on "Digital Circuits"	October 2021 (12 weeks)	Indian Institute of Technologies, Kharakpur
8.	NPTEL Online Certification on "Electric Vehicles Part-I"	March 2022 (4 weeks)	Indian Institute of Technology (IIT), Madras
9.	NPTEL online Certification on "Fundamentals of Electronic Materials and Devices"	APRIL 2023 (8weeks)	Indian Institute of Technology (IIT), Madras
10.	MATLAB on ramp	-	Mathworks

3.5 Projects Guided/Co-Guided:

Sl.No.	Title of the project	UG/PG	Year	Guide/ Co-Guide
1	Analysis of significant parameters of miscellaneous insulating fluids with antioxidants	UG	2022	Guide
2	Analysis Of Vegetable Oils and Their Mixtures As An Alternative For Transformer Oil	UG	2021	Guide
3	Smart Sensor Using Bike Helmet to Reduce Accident	UG	2021	Guide
4	Smart Management of streetlight for Energy Conservation	UG	2020	Guide
5	Improving the Performance of vegetable oil with antioxidants for transformer applications	UG	2019	Guide
6	Accident Prevention and Security system in vehicle	UG	2018	Guide
7	Analysis of critical parameters of fresh mineral oil using Antioxidants	PG	2018	Co-Guide
8	Automatic Star-Delta Starter	UG	2017	Guide
9	Enhancing the properties of used mineral oil and fresh vegetable oil	PG	2017	Co-Guide

10	Theft intimation of the vehicle over SMS to owner who can stop the engine remotely	UG	2016	Guide
11	RFID based library management system	UG	2015	Guide
12	Electrical conductivity and tensile strength of carbon nano tubes reinforced aluminium material	PG	2015	Co-Guide

3.6 Guest Lecture Delivered:

Sl.No	Topic	College	Month & Year
1	Topic on "HVDC"	Thamirabharani Engineering College, Tirunelveli	March 2021
2	Enhancement of Dielectric properties in transformer Oil	National Engineering College, Kovilpatti	February 2021
3	How to score more?	Sharon Matriculation Higher Secondary School, Vilathikulam	March 2023

3.7 Online Webinars attended:

Sl.No.	Topic	Organizer	Date
1	Introduction to Electrical Power System Network	SKILL - LYNC	26.05.2021
2	Transformer Protection Testing	OMICRON MEA Electronics	30.04.2021
3	Time-optimized power transformer diagnostics with TESTRANO 600- Part 4	OMICRON	23.06.2020
4	Instrument Transformer Diagnostics with CPC 100 using PTM	OMICRON	12.06.2020
5	Partial Discharge Measurements	OMICRON	10.06.2020
6	Time-Optimized power transformer with TESTRANO 600- Part 3	OMICRON	09.06.2020

4. Research Achievements

4.1 International Conference Publication

S. No	Title of the Paper	Name of the Conference	Organizer	Month & Year	Publication
1	Enhancement of Critical Characteristics of Vegetable Oil and used Mineral Oil of Power Transformer	IEEE International Conference on Circuits, Power and Computing Technologies, ICCPCT-2013	Noorul Islam Centre for Higher Education, Kumaracoil	21 st and 22 nd March 2013	Published in IEEE Xplore Digital Library. Conference Proceeding of ICCPCT 2013 ISSN: 978-1-4673-4920-8/13
2	Investigation of critical parameters of mixed insulating fluids with	IEEE International Conference on Circuits, Power and Computing	Noorul Islam Centre for Higher Education, Kumaracoil	21 st and 22 nd March 2014	Published in IEEE Xplore Digital Library. Conference

	antioxidants	Technologies, ICCPCT-2014			Proceeding of ICCPCT 2014 ISSN: 800-1- 4673-4920- 3/14
3	Electrical Conductivity Of Carbon Nano Tubes Reinforced Aluminium Composites For Electrical Applications	International Conference on New Frontiers in Chemical, Energy and Environmental Engineering- ICMME2015	Shri Chandrasekh arendra Saraswathi Viswa Mahavidyala ya (SCSVMV University), Kanchipuram	25 th march 2015	Published in IEEE Xplore Digital Library
4	Enhancing the Properties of Used Mineral Oil by Regeneration Process	IEEE International conference on Advances in electrical, Electronics, information, communication and bio- informatics	Prathyusha Engineering college, Chennai	27 th and 28 th Feb 2016	Published in IEEE Xplore Digital Library conference preceding of ICAEEICB 2017 978-1-5090- 5434-3
5	Analysis of significant parameters of miscellaneous insulating fluids with antioxidants	Two Days International Conference on Contemporary Topics in Electrical and Electrical Engineering ICCTEEE'18	Karpagam College of Engineering	27 th and 28 th Feb 2017	Published in IEEE Explore Digital Library conference proceeding of ICCTEEE 2018
6	Comparison of critical parameters of reclaimed transformer oil & vegetable oil using antioxidants	3 rd International Conference on Emerging Trends in Computing Communication and Automation Technology	Sri Vidya College of Engineering & Technology, Virudhunaga r.	9 th March 2018	Published in IEEE Explore Digital Library conference proceeding of ISBN:978-81- 931500-1-6
7	Improving The Performance Of Vegetable Oil With Antioxidants For Transformer Application	5 th International Conference on Latest Trends in Science, Engineering and Technology	Karpagam Institute of Technology, Coimbatore	22 nd & 23 rd March 2019	Published in IEEE Explore Digital Library conference proceeding of ICLTSET 2019
8	Agriculture Irrigation System Using Smart Technologies	6 th International E -Conference on Latest Trends in Science, Engineering and Technology	Karpagam Institute of Technology, Coimbatore	13 th April 2020	Published in IEEE Xplore Digital Library

9	GSM based voltage and power factor monitoring control system	ICPERES International conference	SRM Engineering College, Chennai	22 nd April 2021	SRM Conference proceedings
10	Analysis of significant parameters of miscellaneous insulating fluids with antioxidants	1 st IEEE International conference on Nanoelectronics, Nanophonics, Nanomaterials, Nanoscience, & Nanotechnology	Mangalam College of Engineering, Kottayam, Kerala	28 th and 29 th April 2022	Published in IEEE Xplore Digital Library ISBN:978-1-6654-3729-5
11	Enhancing the critical parameter of liquid insulation used in power transformers	2 nd IEEE International conference on Nanoelectronics, Nanophonics, Nanomaterials, Nanoscience, & Nanotechnology	VISAT Engineering college, Kerala	28 th and 29 th April 2023	Accepted for the IEEE publication
12	Analysis of vegetable oils for power transformers	2 nd IEEE International conference on Nanoelectronics, Nanophonics, Nanomaterials, Nanoscience, & Nanotechnology	VISAT Engineering College, Kerala	28 th and 29 th April 2023	Accepted for the IEEE publication

4.2 International Journal Publication

S. No	Title of the Paper	Name of the Journal	Vol. No & Page No.	Month & Year
1	Breakdown Voltage Prediction by Utilizing the Behavior of Natural Ester for Transformer Applications	IASC-Intelligence Automation and Soft Computing	Vol.35 & No.3	2023
2	Collating the Critical Parameters of Reclaimed Transformer Oil & Vegetable Oil Using Antioxidants	International Journal on Advanced Electrical and Computer Engineering (IJAECE)	ISSN(Online): 2349-9338, ISSN(Print): 2349-932X Volume -5, Issue -1	2018
3	Enhancement of Critical Characteristics of Aged Transformer Oil Using Regenerative Additives	Australian Journal of Electrical & Electronics Engineering	Vol. 11, No. 1, pp. 77-86.	2014
4	Enhancing the Critical Characteristics of Natural Esters with Antioxidants for Power Transformer Applications	IEEE Transactions on Dielectrics and Electrical Insulation	Vol. 20 & No. 3	2013

4.3 Journal Reviewer:

- ✓ International Journal of Electrical Power and Energy Systems - Elsevier
- ✓ computers materials & continua, Tech Science Press

5. Membership in Professional bodies:

Name of Society	Grade of Membership
ISTE	Life Member

6. Additional Responsibilities held

- ✓ EEE - GATE forum in charge
- ✓ Department Alumni coordinator
- ✓ EEE – Timetable in charge
- ✓ II EEE B Section Class Tutor
- ✓ Department Civil and mechanical works - In Charge
- ✓ High Voltage Lab – Consultancy Work
- ✓ Liquid Dielectrics Lab – In charge
- ✓ Stock verification Member
- ✓ NAAC committee
- ✓ NBA committee