



P.S.R. ENGINEERING COLLEGE SIVAKASI-626 140
(An Autonomous Institution, Affiliated to Anna University, Chennai)
Department of Electrical and Electronics Engineering



FACULTY PROFILE

Name of the College : P.S.R. Engineering College

Name of the Department : Electrical and Electronics Engineering

Name of the faculty member : **Dr. R. MADAVAN**

Present Designation : Associate Professor

Contact Nos. : Landline : Mobile : 9952297231
Email : madavan@psr.edu.in

Gender : Male

Community : BC

PAN Number : AUZPM1844K **Passport Number** :

Date of Birth : 25.02.1987



I. Particulars of Educational Qualification *:

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks obtained	Class obtained
UG	BE	Electrical and Electronics Engineering	2008	National Engineering college	Anna University,	67.2%	I
PG	ME	High Voltage Engineering	2011	National Engineering college	Anna University,	7.5	I
PH.D	PH.D	High Voltage Engineering	2018	Government college of Technology, Coimbatore	Anna University	Y	-

I.a. Additional Qualification :

i. GATE Score (In case of B.E. / B.Tech.)

ii. NET / SLET (In case of M.C.A. / M.Sc. / M.A.)

II. Title of Ph.D. Thesis * : Performance Analysis of alternative Liquid Insulation for Transformers

III. Faculty in which Ph.D. was awarded : Faculty of Electrical Engineering

IV. Academic Experience (As on 01-01-2020) :

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
P.S.R Engineering College	Associate Professor	01.06.2017	Till Date	3	6	
P.S.R Engineering College	Assistant Professor	25.05.2016	31.05.2017	1		

National Engineering College	Assistant Professor	01.06.2012	30.04.2016	4		
Francis Xavier Engineering College	Assistant Professor	01.07.2011	30.05.2012	1		
Total				9	6	

V. Number of FDP/Seminar/ Workshop attended : __32__ Nos.

Sl. No	Type of programme attended	Title of the programme	College & date(s)
1.	Faculty development Program	Emerging Trends in Power and Energy Systems	Gautam Buddha University 24.08.2020 to 28.08.2020
2.	Faculty development Program	Microgrid Opportunity: Renewable Energy Resources and Buildings	Dayalbagh Educational Institute, Dayalbagh, Agra, 16.06.2020 to 20.06.2020
3.	Faculty development Program	Artificial Intelligence, Machine Learning, IoT and Big data applications in Power Electronics and its Allied Areas	Gokaraju Rangaraju Institute of Engineering and Technology 01.06.2020 to 06.06.2020
4.	Faculty development Program	Data Analytics using Python	NITTTR, Chandigarh 18.02.2020 to 22.05.2020
5.	Faculty development Program	To promote Innovation, IPR, Entrepreneurship and Start-ups	Institution's Innovation Council of MHRD 28.04.2020 to 22.05.2020
6.	Spoken Tutorial	R Programming Spoken Tutorial	IIT Bombay 30.04.2020
7.	Faculty development Program	Internet of Things by	NITTTR, Chandigarh 15.04.2020 to 19.05.2020
8.	Faculty development Program	Machine learning and Deep learning for Real Time Stream Analytics	MEPCO Schlenk Engineering College, 11th – 22nd November 2019
9.	Workshop	E-Learning and MOOCs in Higher Education	Anna University Chennai on 14 th September 2019
10.	workshop	Pathways to institutional advancement through research	Bangalore, March 2018
11.	Faculty development Program	Recent Advances in UHV transmission and Distribution	Indian institute of science December 2016
12.	Faculty development Program	Research avenues of Neural Network in Engineering and Technology	PSR Engineering college November 2018
13.	Workshop	Tips and tricks in Microsoft office	PSR Engineering college November 2018
14.	Workshop	E- Learning Resource-Google Classroom	PSR Engineering college 2018
15.	Faculty development program	Outcome based Education and AICTE model curriculum	PSR Engineering college 2 July 018
16.	Faculty development program	Introduction to R Programming	PSR Engineering College December 2017.

17.	Faculty development program	IIT Bombay - Foundation Program on ICT in Education	MEPCO Schlenk Engineering College, August 2017
18.	Faculty development program	Advances in UHV Transmission and Distribution systems	IISc Bangalore, 19 th – 23 th December 2016
19.	Faculty development program	Summer Research Fellowship	IIT Bombay, May – June 2015
20.	Faculty development program	Faculty Development program on Protection and Switchgear.	P.S.G College of Technology, Coimbatore, 23 th -29 th 2014
21.	Workshop	Research Themes of High Voltage Techniques.	IIT Madras, 08.02.2014
22.	Workshop	Recent Advancements in the Field of High Voltage Testing Techniques	National Engineering College, Kovilpatti. 27.12.2013
23.	Workshop	A Hands on Seminar on LATEX essentials for beginners	National Engineering College, Kovilpatti. 14 th & 15 th , 2013
24.	Workshop	Recent Advancements in the Field of High Voltage Testing Techniques	National Engineering College, Kovilpatti 23.11.2012.
25.	Faculty development program	Research Methodologies and Issues in Engineering	Thiagarajar College of Engineering, Madurai. 12 th to 24 th December 2011
26.	Faculty development program	LV Switchgear & Reactive Power management Techniques	P.S.G College of Technology, Coimbatore. 29.07.2011 & 30.07.2011
27.	Workshop	Recent Achievements in the Field of Dielectrics Allied to High Voltage Applications	National Engineering College, Kovilpatti. 18.2.2011
28.	Workshop	Fuzzy logic and Genetic Algorithm Applications using MATLAB	Valammal College of Engineering and Technology, Madurai. 8.10.2010
29.	Workshop	Power system Protection and High Voltage Engineering	VIT University, Vellore. 24 th & 25 th , 2010
30.	Workshop	Artificial Intelligence Based Power System Restoration	National Engineering College, Kovilpatti 13 th & 14 th , 2010.
31.	Workshop	Recent Trends in Renewable Power Generation	National Engineering College, Kovilpatti. 8.1.2010
32.	Workshop	Neural Network and Fuzzy logic Control	National College of Engineering, Maruthakulam. 20 th & 21 th , 2009

VI. Number of Publications (International journals): 11 Nos.

Sl. No	Title of the Paper	Name of the Journal	Volume No. & Issue No.	Year of Publication
1.	Optimization of Mineral Oil properties blended with Natural Ester Oils using Taguchi-based Grey Relational Analysis	Fuel	Doi.org/10.1016/j.fuel.2020.119629	2020
2.	Evaluating Critical Characteristics of Vegetable Oil as a Biodegradable Insulating Oil for Transformer	International Journal of Emerging Electric Power Systems	Vol.21, No.5, pp.1-9	2020
3.	Decision Making on State of Transformers based on Insulation Condition using AHP and TOPSIS methods	IET Science, Measurement and Technology	DOI: 10.1049/iet-smt.2018.5337,	2019.
4.	Multi-objective League Championship Algorithm for Real-Time Task Scheduling	Neural Computing and Applications,2019		2019.
5.	A comparative investigation on effects of nanoparticles on characteristics of natural esters-based nanofluids	Colloids and Surfaces A: Physicochemical and Engineering Aspects	Vol. 556, pp.30-36,	2018
6.	Comparison of antioxidant influence on mineral oil and natural ester properties under accelerated aging conditions	IEEE Transactions on Dielectrics and Electrical Insulation	Vol.24, No.5	2017
7.	Multi-criteria decision – making methods for grading high performance transformer oil with antioxidants under accelerated aging conditions	IET Generation, Transmission & Distribution	Vol.11 No.16, pp.4051-4058	2017
8.	Investigation on effects of different types of nanoparticles on critical parameters of nano-liquid insulation systems	Journal of Molecular Liquids, Elsevier Publishers	Vol.230 pp. 437–444	2017
9.	Failure analysis of transformer liquid- solid insulation system under selective environmental conditions using Weibull statistics method	Engineering failure analysis	Vol 65, pp. 26-38	2016
10.	Mathematical Modeling on AC Pollution Flashover Performance of Glass and Composite Insulator	Journal of Electrical Engineering and Technology	Vol 10, pp. 709-718	2015

11.	Enhancement of Critical Parameters of Transformer oil using Nanoparticles	Arabian Journal of Science and Engineering	Vol 38, pp. 2725-2733	2013
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VII. Number of Publications (National / International Conferences): 9 Nos.

Sl. No	Title of the Paper	Name of the Conference	Name of the Organizer	Date (s)
1.	Statistical analysis of silicon grease coated bushings characteristics under various contaminated conditions	International Conference on Innovation in Electrical, Electronics and Intelligent Computing	Coimbatore	19 th -20 th July 2019
2.	Fuzzy Logic-Based Decision Making for Selection of Optimized Liquid Insulation Blend	International Conference on Soft Computing in Data Analytics	Sri Sivani College of Engineering Srikakulam, Andhra Pradesh	10 th -11 th March 2018
3.	Selection of optimum liquid insulation blend using optimization techniques	International Conference on Recent Trends in Electrical, Electronics and Communication Engineering (REECE'17)	P.S.R.Engineering College	16 & 18 March 2017.
4.	Analysis of bushing performance under different polluted environment	10th International Conference on Intelligent Systems and Control	Karpagam College of Engineering	7 th -8 th Jan. 2016
5.	Effect of combination of pollutants on the performance of the bushing	International Conference on Energy Efficient Technologies for Sustainability	St. Xavier's Catholic College of Engineering, Chunkankadai.	7-8 April 2016
6.	Performance analysis of transformer liquid insulation system under various environmental conditions	International Conference on Condition Assessment Techniques in Electrical Systems	Central Power Research Institute, Bangalore	10 th -12 th Dec. 2015
7.	Enhancement of characteristic performance of silicone oil with semi conductive nano particles	IEEE International Conference on Innovations in Information, Embedded and Communication Systems	Karpagam College of Engineering	19 th -20 th March 2015
8.	Investigation of critical parameters of insulating mineral oil using semiconductive nanoparticles	International Conference on Circuits, Power and Computing Technologies	Noorul Islam Centre for Higher Education	20-21 March 2013
9.	A study on enhancement of critical parameters of transformer oil using nanomaterials	IEEE International Conference on Nanoelectronics ICONE	muthayammal engineering college	25th & 26th February, 2011

VIII. Number of Interactions with outside world: 17 Nos.

S.No	Name of the Journal/Institute	Role
1.	IEEE Access	Reviewer
2.	Journal of Molecular Liquids	Reviewer
3.	Engineering Failure Analysis	Reviewer
4.	Alexandria Engineering Journal	Reviewer
5.	International Journal of Electrical Power and Energy Systems	Reviewer
6.	Cellulose	Reviewer
7.	IET Generation Transmission and Distribution	Reviewer

8.	IET Science, Measurement and Technology	Reviewer
9.	IET Nanodielectrics	Reviewer
10.	Journal of Electrical Engineering and Technology	Reviewer
11.	International Journal of Emerging Electric Power Systems	Reviewer
12.	Surface Review and Letters	Reviewer
13.	Lubrication Science	Reviewer
14.	APC Mahalakshmi College	Advisory Committee Member – International Conference
15.	Sri Sairam College of Engineering Bangalore, Karnataka	Advisory Committee Member – International Conference (28 th & 29 th November 2019)
16.	International conference on smart automation in computer, electrical, electronics and communication engineering, 2019	Reviewer
17.	2020 IEEE Texas Power and Energy Conference, USA, February 6-7, 2020	Reviewer

Signature of the Faculty