

FACULTY PROFILE

Name of the Staff : **Mr. K. KUMAR**
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1. Personal Details

Age : 31
Date of Birth : 01/05/1992
Sex & Marital Status : Male / Married
Citizenship : Indian
Qualification : M.E

Degree	Programme and Specialization	Class /CGPA	Month & Year of Passing	Institute/University
PhD	High Voltage Engineering		Pursuing	Anna University
M.E	HVE	I Class / 8.72	May 2015	National Engineering College, Kovilpatti.
B.E	EEE	I Class / 7.95	April 2013	Park College of Engineering and Technology, Coimbatore.

Date of joining : 15/05/2015
Present status : Assistant Professor
Professional Experience : Nil

2. Academic Achievements

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

S. No	Title	Period	Venue
1	NPTEL-AICTE Faculty Development Programme on “ Power System Analysis”	Jul-Oct 2022	NPTEL (Online)-IIT Kharagpur
2	AICTE Training And Learning (ATAL) Academy Online Elementary FDP on, "State of the art applications and research areas in high voltage engineering (RAHVE-2021)"	05.07.2021 To 09.07.2021	National Institute of Technology, Calicut
3	Recent Advances in Condition Monitoring of Power Equipment (Virtual FDP)	25.01.2021 to 30.01.2021	National Institute of Technology, Calicut
4	Circuit Design using AutoCAD Electrical	20.07.2020 to 24.07.2020	ICT Academy

5	AICTE-MARGDARSHAN Sponsored Faculty Development Programme on “Advanced Tools and Techniques for Research on Engineering Problems”	18.11.2019 to 23.11.2019	National Institute of Technology, Thiruchirapalli.
6	MHRD TEQIP-III Sponsored Faculty Development Programme on “Advanced Condition Monitoring Methods for Power Equipment”	09.07.2018 to 14.07.2018	National Institute of Technology, Calicut
7	Two Weeks AICTE sponsored faculty development Programme on “Recent trends and Applications of High Voltage Engineering”	06.11.2017 to 19.11.2017	National Engineering College, Kovilpatti
8	Two days training programme on Protection Relay	24.10.2017 to 25.10.2017	National Engineering College, Kovilpatti
9	Three days Quality improvement Programme on “Technology Enabled Teaching Learning Process” conducted by NITTTR, Chennai.	27.05.2017 to 29.05.2017	National Engineering College, Kovilpatti
10	One-week training Programme on “Instructional design and delivery systems”	22.05.2017 to 27.05.2017	National Engineering College, Kovilpatti
11	Five days QIP-AICTE sponsored short term course on “Recent Advances in UHV transmission and distribution”	19.12.2016 to 23.12.2016	Indian Institute of Science (IISc), Bangalore
12	Two Days National Workshop on “Image Processing using MATLAB”	16.09.2016 to 17.09.2016	KPR Institute of Engineering and Technology, Coimbatore
13	IEEE CIS Sponsored Three days workshop on “Implementation of Soft Computing Techniques” ISCT’15	05.08.2015 to 08.08.2015	National Engineering College, Kovilpatti
14	One Day Pre-Conference Workshop Entitled “Programming, Simulation and Optimization Using MATLAB/SIMULINK”	04.13.2015	SVS College of Engineering, Coimbatore.
15	MNRE sponsored two day National Level Technical Seminar on “Adaptive Control of Integrating Renewable Energy Sources with Smart Grid Using Scada”	09.01.2015 to 10.01.2015	National Engineering College, Kovilpatti.
16	Two days National workshop on “Nano Materials Synthesis and Characterization”	25.02.2014 to 26.02.2014	K.S.Rangasamy college of Technology, Tiruchengode.
17	One day workshop on “VLSI design using PSPICE”	07.01.2012	SNS College of Technology, Coimbatore.

2.2 Expert Lecture Delivered:

Sl.No	Title	Date	Venue	Participants
1	“Prediction of Pollution Severity in High Voltage Insulator using soft computing techniques”- A Two Day online workshop on “Condition	12.03.2022	Dept of EEE, National Engg. College, Kovilpatti	70

	Monitoring and Diagnosis Techniques for High Voltage Power Apparatus using Soft Computing Approaches”.			
2	“Basic Fundamentals and Need for Protection in Power System”- A Two Day online workshop on “Smart Protection and control using Numerical Relay”	16.04.2021	Dept of EEE, National Engg. College, Kovilpatti	64
3	“Prediction of Pollution Severity in High Voltage Insulator using Machine Learning Techniques”- A Two Day online workshop on “Application of Artificial Intelligence Techniques in High Voltage Engineering”.	05.02.2021	Dept of EEE, National Engg. College, Kovilpatti	70
4	“High Voltage Testing Techniques”-NEC TECHFEST’2020, ALTANZIA	20.02.2020	Dept of EEE, National Engg. College, Kovilpatti	20
5	“Flashover characteristics on High Voltage Insulator”- NEC-ALTANZIA 2K19	20.02.2019	Dept of EEE, National Engg. College, Kovilpatti	30
6	“High Voltage Testing Techniques”, ALTANZIA 2K18	13.03.2018	Dept of EEE, National Engg. College, Kovilpatti	82
7	“Outdoor Insulators for High Voltage Application”- RTAHVE’17 AICTE Sponsored Two Week Faculty Development Programme on “Recent Trends and Applications of High Voltage Engineering”	08.11.2017	Dept of EEE, National Engg. College, Kovilpatti	35

2.3 Online Certification Completed:

S. No	Certification	Period	Organizers	Remarks
1.	COURSERA –Advanced Study of Protection Schemes and Switchgear	April 2023 (4 weeks)	L&T EduTech	95%
2.	NPTEL Online Certification on, “Power System Protection and Switch Gear”	July-Sep (2021)	Indian Institute of Technology (IIT), Roorkee.	Scored
3.	COURSERA- Safety in the Utility Industry	October 2021 (4 Weeks)	University at Buffalo	98.75%
4.	UDEMY- Fundamental of Electrical Power System Protection	May 2021		
5.	NPTEL Online Certification on “Advances in UHV Transmission and Distribution”	Sep-Nov 2020 (8 Weeks)	Indian Institute of Science (IISC), Bangalore	Elite Silver & 5% Topper
6.	COURSERA- Introduction to Solar Cells	June 2020 (5 Weeks)	University of Denmark (DTU)	94.5%

7.	MATLAB Online Certification on “MATLAB Fundamentals”	May 2020	Mathworks Training Services	
8.	UDEMY- Power Management in India & Basic Concepts of Solar Photovoltaic Module	April 2020		
9.	MATLAB Online Certification on “Machine Learning Onramp”	April 2020	Mathworks Training Services	
10.	COURSERA- Electric Power Systems	March 2020 (4 Weeks)	University at Buffalo The State University of New York	87.5%
11.	MATLAB Online Certification on “MATLAB Onramp”	December 2019	Mathworks Training Services	
12.	COURSERA-Programming for Everybody (Getting Started with Python)	December 2019(4 Weeks)	University of Michigan	98%
13.	NPTEL Online Certification on “Recent Advances in Transmission Insulators”	August – September 2018 (4 Weeks)	Indian Institute of Science (IISc), Bangalore	Elite
14.	NPTEL Online Certification on “Power System Engineering”	January-April 2018 (12 Weeks)	Indian Institute of Technology (IIT), Kharagpur	Elite
15.	NPTEL Online Certification on “Electrical Machines-I”	July-October 2017 (12 weeks)	Indian Institute of Technology (IIT), Kharagpur	Scored
16.	NPTEL Online Certification on “Introduction to Research”	January-February 2016 (10 Hours)	Indian Institute of Technology (IIT), Madras	Elite

2.4 Industrial Training Attended:

S. No	Training Details	Period	Company Details
1	Faculty Industrial Training on power system and insulation coordination study	20 th -24 th Feb 2023	4A Design & Engineering Pvt.Ltd, Chennai
2	Faculty Industrial Training on Transformer Manufacturing and Testing	28 th Feb – 4 th Mar 2022	Padmavahini Transformers private Limited, Coimbatore.
3	Faculty Industrial Training on Transformer Manufacturing and Testing	19 th - 23 rd November 2018	Shree Abirami Enggineering works, Chennai.
4	Faculty Industrial Training on High Voltage Testing Techniques	5 th – 9 th June 2017	Global Power Research Institute, NABL Certfited Lab, Cuddalore.

5	Industrial Training Programme on “Design and Validation of Automobile Parts”.	05.12.2017	Mahindra Research Valley, Chennai.
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3. Research Achievements

3.1 International Journal Publication

S.No	Title of the Paper	Name of the Journal	Vol. No. & Page No.	Month & Year
1.	Automatic Fish Feeder System	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	Volume-9 Issue-5, Page No. 70-72.	March 2020
2.	Investigation of Flashover Performance on 22kV Bushing with Non-Uniform Pollution	International Journal of Applied Engineering Research (IJAER) – Annexure -II	ISSN 0973-4562 Vol. 10 No.20	March 2015

3.2 International Conference Publication

S. No	Title of the Paper	Name of the Conference	Organizer	Month & Year	Publication
1	Automatic Billing Trolley for an enhanced supermarket using RFID	7th International Conference on Computing Methodologies and Communication (ICCMC)	Surya Engineering College, Erode.	04 April 2023	IEEE Xplore Digital Library. DOI: 10.1109/ICC56507.2023.10083555
2	Investigation of Electric field distribution on a 33kV polymeric insulator under polluted conditions using Finite Element Method	4th International Conference on Circuits, Control, Communication and Computing (I4C)	Ramaiah Institute of Technology, Bangalore	21-23 December 2022	IEEE Xplore Digital Library. DOI: 10.1109/I4C57141.2022.10057935
3	Investigation of High Voltage dielectric barrier and their effect on breakdown voltage using Numerical method	4th International Conference on Circuits, Control, Communication and Computing (I4C)	Ramaiah Institute of Technology, Bangalore	21-23 December 2022	IEEE Xplore Digital Library. DOI: 10.1109/I4C57141.2022.10057682

4	Automatic Indoor Hydroponic Plant Grow Pot using Arduino	IEEE- International Conference on Artificial Intelligence and Smart Systems (ICAIS 2021)	JCT College of Engineering and Technology, Coimbatore	23-25, February 2022	IEEE Xplore Digital Library. DOI: 10.1109/ICAIS53314.2022.9742782
5	Car Parking Allocation System using Arduino	IEEE- International Conference on Artificial Intelligence and Smart Systems (ICAIS 2021)	JCT College of Engineering and Technology, Coimbatore	25-27, March 2021	IEEE Xplore Digital Library. DOI: 10.1109/ICAIS50930.2021.9395865
6	Dimensionality Reduction and Feature Extraction using Image processing techniques for classification of Single Partial Discharge Patterns	RTU TEQIP-III Sponsored, 3 rd International Conference on Communication and Computational Technologies (ICCCT 2021)	Rajasthan Institute of Engineering and Technology, Jaipur & Rajasthan Technical University Kota	27 th & 28 th February 2021	Springer Book Series, 'Algorithms for Intelligent Systems' DOI: 10.1007/978-981-16-3246-4_33
7	Investigation of Pollution severity and dry and characteristics on 11KV composite Insulator	2020 IEEE International Conference on Advances and Developments in Electrical and Electronics engineering (ICADEE 2020)	Karpagam College of Engineering, Coimbatore	10 th & 11 th December 2020	IEEE Xplore Digital Library. DOI: 10.1109/ICADEE51157.2020.9368945
8	Prediction of flashover voltage on 11kV Composite Insulator using Kernel Support Vector Machine	International Conference on Soft Computing for Problem Solving – (Springer)	VIT Vellore	17 th – 19 th December 2018	Springer Book series-Advances in Intelligent Systems and Computing, Vol. 1057 DOI: 10.1007/978-981-15-0184-5_5
9	Investigation of Flashover Performance on 22kV RTV Coated Bushing Under Non-Uniform Coastal Pollution	IEEE International Conference on Electrical Energy Systems, ICEES 2018	SSN College of Engineering, Chennai	7 th – 9 th February 2018.	IEEE Xplore Digital Library. DOI: 10.1109/ICEES.2018.8443239

10	Investigation of Non-Uniform Pollution on RTV Coated Bushing.	IEEE International Conference on Electrical, Computer and Communication Technologies, ICECCT 2015	SVS College of Engineering Coimbatore	05 th - 07 th March 2015	IEEE Xplore Digital Library. DOI: 10.1109/ICECCT.2015.7226002
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4. Courses taught:

Course Title	U.G. or P.G.
Basic Electrical and Electronics Engineering, AC Rotating Machines, Digital Logic Circuits, Electrical Power Systems, High Voltage Engineering, CAD of Electrical Apparatus.	U.G (Theory)
Basic Electrical Engineering laboratory, Electrical Machines Laboratory, Integrated Circuits Laboratory, Engineering Practices Laboratory, Power system simulation and High Voltage Laboratory.	U.G (Lab)
Electro Magnetic Interference and Electro Magnetic Compatibility, High Voltage Laboratory	P.G

5. Additional Responsibilities held

- Junior Jaycee- Coordinator
- International Studies (Member)
- Board of Studies (Asst)
- Industry Institution Interaction (Asst)
- Social Awareness Cell (Asst)
- Department Placement (Asst)
- Department Minutes of Meeting (Asst)