

# Dr.B.KIRUTHIGA, MBA., M.E., Ph.D.

Associate Professor

Department of EEE

Velammal College of Engineering and Technology, Madurai.

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## Educational Qualification:

Course	Specialization	Board of Study	Year of Passing	Aggregate
Ph.D	Electrical Engineering	Anna University, Chennai	April 2021	Awarded
M.E	Power Electronics and Drives	Anna University, Chennai	May 2014	<b>CGPA-8.48</b> (48 th university rank holder)
M.B.A.	HR with System	Madurai Kamaraj University	April 2006	<b>71%</b>
B.E.	Instrumentation & Control	Madurai Kamaraj University	April 2004	<b>75%</b>

Total Experience in Teaching: 16 Years 02 Months

S.No.	Department	Designation	Institution	Duration
1.	EEE	Associate Professor	Velammal College of Engineering and Technology	July 2024 to Till Date
2.	EEE	Assistant Professor-I	Velammal College of Engineering and Technology	August 2022 to June 2024
3.	EEE	Assistant Professor-III	Velammal College of Engineering and Technology	January 2014 to July 2022
4.	MBA	Assistant Professor-III	Velammal College of Engineering and Technology	June 2010 to May 2012.
5.	MBA	Lecturer	Velammal College of Engineering and Technology	May 2009 to May 2010.
6.	Instrumentation & Control	Lecturer	Sethu institute of Technology	September 2008 to May 2009.
7.	EEE	Lecturer	Pannai College of Engineering and Technology	June 2006 to August 2008.

## Research and Development: Total Grand-79.675 L

S.No	Title of Project	Source of Funds	Amount	Duration (from – to -- )
1.	Innovation and Entrepreneurship Development Centre(IEDC)	DST-EDII	45.3 L	2016-2021
2.	Entrepreneurship cum Skill Development Programme Title on “Repair and Maintenance of Power supply, UPS and Inverter	MSME	1,25,000	2022-2023
3.	Promotion of Energy Audit and Conservation of Energy	DIC	35,000	2022-2023

4.	Entrepreneurship Development Programme	EDII-TN	10,000	2021-2022
5.	Entrepreneurship Awareness camp	DST-EDII	60,000	2019-2020
6.	Entrepreneurship Development Programme	DST-EDII	2 L	2019-2020
7.	Entrepreneurship Awareness camp	DST-EDII	2 L	2018-2019
8.	Entrepreneurship Development Programme	DST-EDII	2 L	2018-2019
9.	Technology based Entrepreneurship Development Programme	DST-EDII	3 L	2018-2019
10.	Faculty Development Programme	DST-EDII	2.5 L	2018-2019
11.	Entrepreneurship Awareness camp	DST-EDII	2 L	2017-2018
12.	Entrepreneurship Development Programme	DST-EDII	2 L	2017-2018
13.	Technology based Entrepreneurship Development Programme	DST-EDII	3 L	2017-2018
14.	Entrepreneurship Awareness camp	DST-EDII	1.6 L	2016-2017
15.	Entrepreneurship Development Programme	DST-EDII	2 L	2016-2017
16.	Technology based Entrepreneurship Development Programme	DST-EDII	6 L	2016-2017
17.	Entrepreneurship Awareness camp	DST-EDII	60,000	2015-2016
18.	National Conference on “Resource management- A Focus on Inclusive Growth”	AICTE	60,000	2011-2012
19.	Entrepreneurship Awareness camp	DST-EDII	67,500	2011-2012
20.	Faculty Development Programme	DST-EDII	2,10,000	2011-2012

**Student Project awarded:**

<b>S.No</b>	<b>Title of Project</b>	<b>Awarded</b>	<b>Duration</b> (from – to -- )
1.	Integrating AI to predict crop water needs, automate valves, and boost yield	NM- Niral Thiruvizha Rs.10,000	2023-2024 (On going)
2.	Intelligent Defense Surveillance System Selected under Recommendation for Government Initiations	Winner ISTE Students Main Chapter – VCET	15.09.2022

3.	Smart Med box system using IoT Selected under Potential for Commercialization	Winner ISTE Students Main Chapter – VCET	15.09.2022
4.	IoT based Drips Monitoring system in Hospitals, under Potential for Commercialization	Winner ISTE Chapter Velammal college of Engineering And Technology	15.09.2021
5.	Sonic wave based forest fire extinguisher and detection using deep learning.	NSTEDB-1Lakh	2020-2021
6.	Design of Automated Robot for Drainage Systems using IoT Platform	NSTEDB-1Lakh	2019-2020
7.	Bus Tracking System	NSTEDB-1 Lakh	2018-2019
8.	An Intelligent Way Tracking And Traffic Control System For Ambulance Without GPS	NSTEDB-1Lakh	2017-2018
9.	Smart Electric Vehicle	NSTEDB-DST-1Lakh	2016-2017

### Journal Publications :

1. **B. Kiruthiga**, R. Karthick, I. Manju and K. Kondreddi 2024, "Optimizing Harmonic Mitigation for Smooth Integration of Renewable Energy: A Novel Approach Using Atomic Orbital Search and Feedback Artificial Tree Control," in Protection and Control of Modern Power Systems, vol. 9, no. 4, pp. 160-176, July 2024, doi: 10.23919/PCMP.2023.000577.
2. **Kiruthiga B 2024**, "Transmission Line Quality Inspection Using AI," Third International Conference on Intelligent Techniques in Control, Optimization and Signal Processing (INCOS), Krishnankoil, Virudhunagar district, Tamil Nadu, India, 2024, pp. 1-5, doi: 10.1109/INCOS59338.2024.10527492
3. **Kiruthiga B 2023**, "Coma patient monitoring system," 7th IET Smart Cities Symposium (SCS 2023), Hybrid Conference, Bahrain, 2023, pp. 229-235, doi: 10.1049/icp.2024.0929.
4. **Kiruthiga B & Om Prakash A 2023**, Design and development of reduced switch single phase multilevel inverter fed from isolated photovoltaic system, AIP Conf. Proc. 2831, 040006 (2023) <https://doi.org/10.1063/5.0162899>.
5. **Kiruthiga B & Narmatha Banu, R 2023**, Optimal Placement Identification of Multiple DG Types Using Optimization Technique, E3S Web of Conferences 387, 01009. <https://doi.org/10.1051/e3sconf/202338701009>.

6. **Kiruthiga B** , Om Prakash A & Narmatha Banu, R 2023, Implementation of RFID to protect the neonate in hospitals from abduction, E3S Web of Conferences 387, 04010. <https://doi.org/10.1051/e3sconf/202338704010>.
7. **Kiruthiga B** & Narmatha Banu R “ Implementation and Classification of Breast Cancer histopathological image Processing using Support Vector Machine ”, IEEE Explore , 2023 International Conference on Computer Communication and Informatics (ICCCI), Coimbatore, India, 2023, pp. 1-7, doi: 10.1109/ICCCI56745.2023.10128205.
8. **Kiruthiga B**, Narmatha Banu, R & Devaraj D 2019, ‘Detection and classification of power quality disturbances or events by adaptive NFS classifier’, International Journal of Soft Computing, Springer, Published First Online, ISSN: 1432-7643 (Print) 1433-7479 (Online) (Journal Impact Factor: 2.784).
9. **Kiruthiga B**, Narmatha Banu R, & Devaraj D, “Design and Development of Active Filters using p-q Theory and SDM- SAPF with Id - Iq Techniques ”, Journal of Electrical Engineering, ISSN:1582-4594. (Journal Impact Factor : 1.04).
10. **Kiruthiga B**, Narmatha Banu R, & Devaraj D “Mitigation of Current Harmonics in Wind Turbine System at Distribution Level Using Shunt Active Filters”, IEEE Explore ,2017 IEEE International Conference on Intelligent Techniques in Control, Optimization and Signal Processing (INCOS), Srivilliputtur, India, 2017, pp. 1-6, doi: 10.1109/ITCOSP.2017.8303161.
11. **Kiruthiga B**, “IoT based drips monitoring system in hospitals”, International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering Vol. 9, Issue 4, DOI 10.17148/IJIREEICE.2021.9408, ISSN (Online): 2321 – 2004, April 2021 (Journal Impact Factor : 6.581).
12. **Kiruthiga B**, “Smart Safety Enhancement For Mountain Roads”, International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering Vol. 9, Issue 4, DOI 10.17148/IJIREEICE.2021.9403, ISSN (Online): 2321 – 2004, April 2021 (Journal Impact Factor : 6.581).
13. **Kiruthiga B**, “Design of Automated Monitoring Robot for Drainage Systems Using IOT Platform”, International Research Journal of Engineering and Technology (IRJET), Volume 7, Issue 4, April 2020,ISSN: 2395 – 0056,Impact factor 7.34.
14. **Kiruthiga B**, “Design and Implementation of Fuzzy And SVPWM Techniques for Three Phase Three Level Inverters”, International Research Journal of Modernization in Engineering Technology and Science (IRJMETS), Volume 2, Issue 4, April 2020,ISSN: 2582 – 5208, Impact factor 7.34.
15. **Kiruthiga B**, “Implementation of Single Phase Voltage Source Inverter Control Algorithm for Photovoltaic System”, International journal of IJSRD, Vol. 3, Issue 08, Nov 2015 | ISSN (online): 2321-0613.

16. **Kiruthiga B**, “Implementation of first order sliding mode control of active and reactive power for DFIG wind turbine”, International journal of IJIFR, Volume 2, issue 8, April 2015,ISSN: 2347 1697.

17. **Kiruthiga B**, “Analysis and Implementation of PI Controller for DC link single phase PWM Voltage Source Inverter” published by IJARTET,ISSN no. 2394-3785 ,volume 1 ,issue 3,November 2014.

### **National and International conference Paper Presentation: 23**

1. Paper presented on the titled “ Intelligent defense surveillance system using R-CNN algorithm with single shot detector”, International Conference on 2024 Second International Conference on Emerging Trends in Information Technology and Engineering (ICETITE),Feb 14-15,VIT, Vellore.
2. Paper presented on the titled “ Smart Gesture Recognition Using Sensors-Based Data Gloves”, IEEE Explore , 2024 International Conference on Computer Communication and Informatics (ICCCI), Jan 29-31,2024,Sri Shakthi Institute of Engineering and Technology, Coimbatore, India,
3. Paper presented on the titled “ Power Quality Analysis in the Low Tension (LT) Power System Distribution Network”, International Conference on Innovations in Clean Energy Technologies (ICET- 2023) at Energy Centre, Maulana Azad National Institute of Technology, Bhopal, Madhya Pradesh, India from 8th-10th April 2023.
4. Paper presented on the titled “ Implementation and Classification of Breast Cancer histopathological image Processing using Support Vector Machine ”, IEEE Explore , 2023 International Conference on Computer Communication and Informatics (ICCCI), Jan 23-25,2023,Sri Shakthi Institute of Engineering and Technology, Coimbatore, India,
5. Paper presented on the titled “Design and Development of Reduced Switch Single Phase Multilevel Inverter Fed from Isolated Photovoltaic System”, International Conference on Smart Technologies and Applications-2022 (ICSTA 2022), 11th March 2022, Ramco Institute of Technology.
6. Paper presented on the titled “A Smart Garbage Management System in Cities Using IoT”, Virtual National Conference on “Sustainable Consumption and Production”, 24.03.2022 &25.03.2022, Velammal College of Engineering and Technology, Madurai.
7. Paper presented on the titled “Intelligent Speed Detection System”, Virtual National Conference on “Sustainable Consumption and Production”, 24.03.2022 &25.03.2022, Velammal College of Engineering and Technology, Madurai.
8. Paper presented on the titled “ A Novel Fuzzy –Adaptive Hysteresis Controller Based Three Phase Four Wire – Four Leg Shunt Active Filter for Harmonic and Reactive Power Compensation”, National Conference on “ Advanced Construction and Sustainable Energy Sources- NCACSES’19”, 15<sup>th</sup> March 2019, Selvam College of Technology, Namakkal.

9. Paper presented on the titled “Vehicular Identification and Authentication By Licence”, National conference on “Innovative Technologies in Computer and Communication”, 4<sup>th</sup> April 2018, Velammal College of Engineering and Technology, Madurai.
10. Paper presented on the titled “Implementation of Neutral Point Clamped based Hybrid Active Power Filter for Current Harmonic Suppression”, AICTE sponsored International Conference-ICPES’17 ,21&22 December 2017, Velammal College of Engineering and Technology, Madurai.
11. Paper presented on the titled “Design and Implementation of Harmonic Suppression in VSI”, International Conference ICPES '17, 21&22 April 2017, Velammal College of Engineering and Technology, Madurai.
12. Paper presented on the titled “Automatic control of hybrid renewable energy system using Artificial Neural Network”, National Conference, 31 March 2017, Kamaraj College of Engineering and Technology, Virudhunagar.
13. Paper presented on the titled “Design and Development of Reduced switch Single Phase Multilevel Inverter Fed from Isolated photovoltaic system”, National Conference NCPRES’16,1-2 April 2016, Kalasalingam University, Krishnan oil.
14. Paper presented on the titled “Implementation of standalone system using SEIG for Off-shore WECS”, National Conference NCPRES’16,29-30 January 2016, Velammal College of Engineering and Technology, Madurai.
15. Paper presented on the titled “First order sliding mode control of active and reactive for DFIG based wind turbine”, National Conference ETCCN2K15,27-28 March 2015, Arunnachala College of Engineering for Women, Vellichanthi.
16. Paper presented on the titled “Design and implementation of advanced power Electronics Interface”, International conference, ICETET’14, March 07-08 2014, Pandian saraswathi yadav Engineering college, sivagangai.
17. Paper presented on the titled “Challenges in Retail Industry” in the National Conference on opportunities and Challenges of Contemporary management Practices in Indian Arena organized by Vidyaa Vikas College of Engineering and Technology, Tirchengode on 13th October 2013.
18. Paper presented on the titled “IT enables Opportunities in Health Care” in the National Level Conference on HOSMAN’2012 organized by Meenakshi Mission Hospital and Research centre on 31st March 2012.
19. Paper presented on the titled “Rural women Empowerment Through SHG’s” in the National Level Conference on Women Empowerment-2012 organized by Anna University of Technology, Madurai on 8th & 9th March 2012.

20. Paper presented on the titled “A Study on Effectiveness of Training and Development in Multispecialty Hospitals” in the International Seminar on India’s Emerging Services Sector- Challenges & Opportunities organized by S.Vellaichamy Nadar College on 25th August 2011.
21. Paper presented on the titled “Relevance of Case Study Method in Management Education” in the Paper contest organized by Madurai Management Association, Madurai on 21st Feb 2011.
22. Paper presented on the titled “Interactive Advertising” in the International Level Conference on Global Marketing Strategies & Practices Published by Nehru Institute of Management Studies on 8th & 9th October 2010.
23. Paper presented on the titled “Global Financial Crisis” in the National Level Conference on Global Economy: Paradigms Practices, Problems & Prospects organized by Park Global School of Business Excellence on 25th Feb 2010.

### **Book/Book Chapter Publication:**

- “AI's Role in 6G Security Machine Learning Solutions Unveiled”, Security Issues and Solutions in 6G Communications and Beyond, IGI Global, Pages: 19, ISBN13: 9798369329313,DOI: 10.4018/979-8-3693-2931-3.ch003
- “Modeling And Simulation Of H6 Topology Using Single Phase Transformerless Grid Connected Photovoltaic System”, Futuristic Trends in Electrical Engineering, IIP Series, Volume 3, Book 1, Part 8, Chapter 1,May 2024.
- Modern Power Converter published by Charulatha publication, 2022. April 2022  
ISBN No. : 978-93-5577-054-7
- “Automatic Load Frequency Control of Multisource Power System using Firefly Algorithm”, Current Trends in Multidisciplinary Sciences, South Asian Academic Publications, Volume – IV, Pages: 07-23 , 2022,ISBN: 978-93-92153-30-3.

### **Patent Published:**

- Published in Indian Design Patent Grand Title of the invention : SOLAR WIRELESS ELECTRIC VEHICLE CHARGING STATION, **Publication Date : 21/08/2024**
- Published in Indian Patent Title of the invention : IMPLEMENTATION OF AN ARDUINO MULTI-NODE SOLAR -POWERED BLE SENSOR FOR MONITORING HUMIDITY AND TEMPERATURE, **Publication Date : 19/01/2024**
- Published in Indian Patent Title of the invention : METHOD FOR REVITALIZING AND SWAPPING MODULATED BATTERY PACKS USING MACHINE LEARNING MODEL FOR ELECTRICAL VEHICLES, **Publication Date : 18/11/2022.**

## **Responsibilities Undertaken:**

- Entrepreneurship Development Cell Incharge of the Institution
- Centre of Excellence “ Electrical Drives in EV” Incharge
- Department ARRIA Incharge
- Department ICT Coordinator
- Staff In charge for Industry Institute Interaction
- Staff in-charge for Department Placement In-charge.
- Staff incharge for Industrial Visit.
- Staff in-charge for association activities.
- Staff In charge for Department News Letter.
- Staff In charge for the Department Budget.
- Department MoU signed Coordinator.
- Staff incharge of the Anna University , AICTE-Department Co-ordinator, ISTE-  
Department Co-ordinator

## **Organized Programme: (80)**

### **Funded Programmes:**

- Organized “EDP” sponsored by Entrepreneurship Development Institute of India (EDI),Ahmadabad (DST – NIMAT Project) under the aegis of Department of Science & Technology, Govt. of India. from 02.01.2020 to 04.02.2020.
- Organized “Entrepreneurship Awareness Camp” sponsored by Entrepreneurship Development Institute of India (EDI),Ahmadabad (DST – NIMAT Project) under the aegis of Department of Science & Technology, Govt. of India. from 03.09.2019 to 14.09.2019.
- Organized “TEDP- ELECTRICAL AND FIRE SAFETY” sponsored by Entrepreneurship Development Institute of India (EDI),Ahmadabad (DST – NIMAT Project) under the aegis of Department of Science & Technology, Govt. of India. from 02.01.2019 to 14.02.2019.
- Organized “EDP” sponsored by Entrepreneurship Development Institute of India (EDI),Ahmadabad (DST – NIMAT Project) under the aegis of Department of Science & Technology, Govt. of India. from 29.08.2018 to 05.10.2018.
- Organized “Entrepreneurship Awareness Camp” sponsored by Entrepreneurship Development Institute of India (EDI),Ahmadabad (DST – NIMAT Project) under the aegis of Department of Science & Technology, Govt. of India. from 01.08.2018 to 28.08.2018.



- Organized “FDP” sponsored by Entrepreneurship Development Institute of India (EDI),Ahmadabad (DST – NIMAT Project) under the aegis of Department of Science & Technology, Govt. of India. from 08.11.2018 to 24.11.2018.
- Organized “TEDP-RESIDENTIAL WIRING” sponsored by Entrepreneurship Development Institute of India (EDI),Ahmadabad (DST – NIMAT Project) under the aegis of Department of Science & Technology, Govt. of India. from 08.01.2018 to 16.02.2018
- Organized “EDP” sponsored by Entrepreneurship Development Institute of India (EDI),Ahmadabad (DST – NIMAT Project) under the aegis of Department of Science & Technology, Govt. of India. from 31.07.2017 to 26.08.2017
- Organized “Entrepreneurship Awareness Camp” sponsored by Entrepreneurship Development Institute of India (EDI),Ahmadabad (DST – NIMAT Project) under the aegis of Department of Science & Technology, Govt. of India. from 10.07.2017 to 26.07.2017 and from 19.02.2018 to 07.03.2018
- Organized “TEDP-TRANSFORMER WINDING” sponsored by Entrepreneurship Development Institute of India (EDI),Ahmadabad (DST – NIMAT Project) under the aegis of Department of Science & Technology, Govt. of India. from 30.01.2017 to 11.03.2017
- Organized “TEDP-MOTOR REWINDING” sponsored by Entrepreneurship Development Institute of India (EDI),Ahmadabad (DST – NIMAT Project) under the aegis of Department of Science & Technology, Govt. of India. from 06.01.2017 to 18.02.2017
- Organized “EDP” sponsored by Entrepreneurship Development Institute of India (EDI),Ahmadabad (DST – NIMAT Project) under the aegis of Department of Science & Technology, Govt. of India. from 31.07.2017 to 26.08.2017.
- .Organized “EAC” sponsored by Entrepreneurship Development Institute of India (EDI),Ahmadabad (DST – NIMAT Project) under the aegis of Department of Science & Technology, Govt. of India. from 10.07.2017 to 26.07.2017
- Organized ““Entrepreneurship Awareness Camp”” sponsored by Entrepreneurship Development Institute of India (EDI),Ahmadabad (DST – NIMAT Project) under the aegis of Department of Science & Technology, Govt. of India. from 9th to 11th March 2016.
- Organized National level “Business Plan Competition -2k13” on 5th October2013.
- Conducted Training Programme to the Velammal Medical Hospital.
- Organized National level Management Meet “Vagans 2k12” on 14th September 2012.
- Organized “Faculty Development programme in Entrepreneurship” sponsored by Entrepreneurship Development Institute of India (EDII),Ahmadabad (DST – NIMAT

Project) under the aegis of Department of Science & Technology, Govt. of India. from 16.04.2012 to 27.04.2012

- Organized “Entrepreneurship Awareness Camp” sponsored by Entrepreneurship Development Institute of India (EDII),Ahmadabad (DST – NIMAT Project) under the aegis of Department of Science & Technology, Govt. of India. from 12th to 28th March 2012
- Organized National Conference on “Resource management- A Focus on Inclusive Growth” Sponsored by AICTE on 25th Feb 2012.

### List of Non funded programmes:

S. No	Title of the Program	Chief Guest/Resource Person	Date
1.	International Conference ICPEs’23	<b>Shri S.B.Sareen,</b> Director, Department of Projects (Government) Entrepreneurship Development Institute of India,Ahamabad. <b>Dr.Raja Mohamed Sumsudeen,</b> Faculty , Department of Electrical Engineering, University of Baharin, Baharin.	17.03.2023 to 18.03.2023
2.	One Week FDP on “Electric Vehicle Technology”	<b>Dr.Raja Mohammed Sumsudeen,</b> Faculty of Electrical Engineering, University of Baghrain <b>Dr.B.Ashok Kumar</b> Associate Professor Thiagarajar College of Engineering, Madurai <b>Dr.S.Kuruseelan</b> Associate Professor, VIT, Chennai <b>Mr.R.Vignesh</b> Chief Technology Officier, Quantanics Techserv Pvt.Ltd., Madurai Dr.R.Naramtha Banu Professor & Head/EEE Velammal College of Engineering and Technology, Madurai	09.10.2023 to 13.10.2023
3.	Solar PV system -On/Off Grid	<b>Dr. Raja Mohammed Sumsudeen</b> Faculty Department of EEE University of Bahrain	07.10.2022

4.	Entrepreneurship Awareness Programme	<b>Er. Manu Prabhuram</b> Managing Director, Ramartech Information Systems and Consulting Services, Madurai	25.08.2023
5.	PMEG SHOWS THE WAY	<b>Er.R.Vasirajan</b> Assistant Director 1, KVIC Chennai	26.09.2023
6.	Operation and Controlling strategies of Chopper fed DC drives	<b>Dr. M. Kala Rathi</b> Associate Professor / EEE Mepco Schlenk Engineering College, Sivakasi.	20.12.2021
7.	Entrepreneurship Awareness Camp	<b>Dr.P.Uma Rani</b> Associate Professor/BBA Thiagarajar Arts and Science College, Madurai.	25.08.2022
8.	Entrepreneurship Awareness Programme	<b>Er.Nithya M</b> Edupreneur Director, ARR Packaging Industry President, MPWA, Madurai	21.09.2022
9.	Entrepreneurship and Startup	<b>Er.P.Sivaguru,</b> Managing Director, Sivaguru Industries, Sivagangai	21.10.2022
10.	Entrepreneurship Awareness Programme	<b>Er.A.Dhakshina Moorthy</b> Director, Uma Foods Industry Madurai	17.11.2022
11.	Business Plan Preparation	<b>Mr.G.D.Chandrasekar</b> EDP Trainer Motivator EDII-TN	19.01.2023
12.	Solar PV system -On/Off Grid	<b>Dr. Raja Mohammed Sumsudeen</b> Faculty Department of EEE University of Bahrain	07.10.2022
13.	Promoting Startup Ideas	<b>Dr.M.Umapathy</b> Professor HAG/Director, CEDI NITT Department of ICE NIT, Trichy <b>Mr.G.Krishnan</b> CEO and the Resident Mentor, CEDI NIT, Trichy	04.02.2023
14.	Naanum Ambani Avan	<b>Mr.N.G Senthil Kumar</b>	17.02.2023

		Co-Founder & Business Consulting Director, Elite Management Consulting Services, Madurai	
15.	Role of Entrepreneurship Development Cell(EDC)	<b>Dr.B.Kiruthiga</b> Assistant Professor-I ED cell Coordinator, Department of EEE, Velammal College of Engineering and Technology, Madurai.	12.04.2023
16.	The Age of Intelligence	<b>Er.Farhadh Manaz</b> CEO, Edge Matrix Corporation, USA.	18.05.2023
17.	Opportunities to become Entreperneurs	<b>Er.S.Ganesan</b> Joint Director/General Manager District Industries Centre, Sivagangai	25.08.2021
18.	Startup ideas and funding Opportunities with EDII	<b>Vedha Viswanathan</b> ,Head- Operations and Investors Relationship @ Native Angel Networks	31.08.2021
19.	ED Cell - Aspiring Entrepreneurs Program - 2021	<b>Mr. Raj Prabakar</b> – CEO, FYMC. <b>Dr R. Subramanian</b> – Founder & CEO, MIND BIZ <b>Flt.Lt. Sridhar Chakravarthi</b> <b>Mulakaluri</b> – Leadership Coach and Start up Mentor	28.09.2021
20.	Entrepreneurship Funding Opportunities	<b>Er.R.Vasirajan</b> ,Project Manager, Central Silver Plant,KVIC,Chitradurga,Karnatak a.	06.10.2021
21.	Sambhav-National Level Awareness Programme On Entrepreneurship (eNLAP)	<b>Session I</b> <b>Mrs.R. Uma Chandrika</b> , <b>Assistant</b> Director,Branch MSME Development Institute, Madurai(Ministry of MSME, Government of India) <b>Session II</b> <b>Mr. T.V.AnbuChezhiyan</b> , Assistant Director II , Khadi & Village Industries Commission	25.11.2021

		(Ministry of MSME, Divisional Office ) <b>Session III Mr.M.S.Rakesh,</b> Managing Director, 9 GEMS AGRO FUELS, Sivagangai.	
22.	Entrepreneurship Awareness Programme on TNSI 2021	<b>Er. S. GOPINATH, B.E., M.B.A</b> Field Coordinator & ILO Trainer , EDII- IEDP Hub Thiagarajar College of Engineering, Madurai.	09.12.2021
23.	Entrepreneurship and Startup	<b>Er.P.Sivaguru</b> , Managing director, sivaguru industries, silmaban.	26.02.2022
24.	7iS for Youngsters	<b>Mr.J.K.Muthu</b> Chairman TEDCO MD, KAMALAM GROUP Madurai.	30.03.2022
25.	Idea Hamster for Millennials	<b>Dr.P.Uma Rani</b> Associate Professor/BBA Thiagarajar Arts and Science College ,Madurai.	27.05.2022
26.	How to build the high growth of Startup	<b>Er.K. Lakshminarayanan,</b> MD,Aravind Insustries, Madurai.	31.05.2022
27.	Financial Support for Startup	<b>Dr.K.Rajamani</b> Associate Professor Mepco School of Management Studies, Mepco Schlenk Engineering College,Sivakasi.	02.06.2022
28.	Plan your Revenue stream and cost structure	Er.R.Vasirajan,Project Manager, Central Silver Plant,KVIC,Chitradurga,Karnataka.	22.06.2022
29.	Scope and Opportunities for Electrical Engineering Students in State and Central Government Sectors	<b>Er.T.Bhuvanewari, M.E.</b> Senior cooperative Auditor Regional Deputy Director of Audit for Milk Cooperatives, Trichy	19.05.2021
30.	"Tamilnadu Students Innovators 2020 Awareness program"	<b>Dr.S.Balaji,</b> Co-ordinator,EDII-Hub, TCE, Madurai <b>Mr.Danlel Prabhakaran,</b> Field Coordinator, EDII, Chennai.	10/01/2020
31.	Entrepreneurship	<b>Er.M.S.Rajashree,</b> Managing	18.02.2021

	awareness camp	Director, Mandat, GST service centre, Anna Nagar, Madurai	
32.	Scalable Business Ventures	<b>Dr.J.Daniel Chellappa</b> Eminent Nuclear Scientist, Chennai	22.02.2021
33.	Entrepreneurship Development Programme	<b>Mr.S.K.Sanjay Raj</b> ,Managing Director, RECCSAR Technologies, Madurai. & <b>Mr.Varatharaj</b> ,Managing Director RECCSAR Technologies, Madurai.	23.02.2021
34.	Identification of opportunities for Entrepreneurs	<b>Er.Manu Prabhuram</b> , Managing Director, RAMAR TECH , Information Systems & Consulting Services, Madurai.	25.02.2021
35.	Challenges Ahead for Young Engineering Professionals	<b>Dr.J.Daniel Chellappa</b> , Eminent Nuclear Scientist,Chennai	17.03.2021
36.	Aspiring Entrepreneurs Program -2021	<b>Mr. Saravanan G</b> , Head – Strategic Alliances, ICT Academy <b>Mr. Jino Jose</b> , Deputy Manager – Training and Research,ICT Academy	29.05.2021
37.	Opportunities to Embark with startup with your EDII	<b>Mr.C.Shunmuga Raj</b> ,ILO trainer,EDII-Tamilnadu <b>Mr.S.Gopinath</b> ,Field Coordinator, Hub-TCE, Madurai	04.06.2021

### Online Courses Completed:

1. NPTEL Online Certification course “Design Thinking” on April 24- 4 Weeks.
2. Online training courses on “Simulink Onramp” organized by Mathworks training services on 03.03.2024.
3. Online training courses on “Stateflow Onramp” organized by Mathworks training services on 17.02.2024.
4. NPTEL Online Certification course “Understanding Incubation and Entrepreneurship” on Jan-Apr 23- 12 Weeks.
5. Online training courses on “Circuit Simulation Onramp” organized by Mathworks training services on 24.03.2022.
6. Online training courses on “Power Electronics Simulation Onramp” organized by Mathworks training services on 21.10.2022.

7. Oorjan Cleantech Private Limited online Certification course “Fundamentals and Economy of Solar Energy” on September 20, 2022
8. Attended Training Program on “Simulation Tools in Electrical Engineering” organized by Department of Electrical and Electronics Engineering, School of Electrical & Communication, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Avadi, Chennai – 600062 from 20.06.2022 to 25.06.2022.

### **Internship:**

1. Completed 1 weeks Internship Electrical Drives System in Electric Vehicle. at Vi Micro systems Pvt. Ltd., Chennai from 08.07.2024 to 12.07.2024
2. .Completed 30 Days Internship Electric Vehicle Design at Pantech e-Learning Pvt Ltd, Chennai from 29.05.2024 to 28.06.2024.
3. Completed 2 weeks Internship Artificial Intelligence using Deep Learning at Edge Matrix Multinational Corporation, US from 03.07.2023 to 15.07 .2023.
4. Completed 2 weeks Internship at Sree Mangayarkarasi Mills (P) Ltd, Madurai from 26.12.2022 to 07.01.2023.
5. Completed 30 days Internship renewable Energy Source at Pantech e-Learning Pvt Ltd, Chennai from 17.10.2021 to 16.11.2021.

### **List of Faculty Development Programme Attended**

1. Attended Online one week FDP Program on “ Innovation in Emerging Field” organized by Greater Kolkata College of Engineering & Management (JIS Group) from 15.07.2024 to 19.07.2024
2. Attended Online one week FDP Program on “ Outcome based Education” organized by Velammal College of Engineering and Technology, Madurai from 01.07.2024 to 05.07.2024
3. Attended One Week Faculty Development Programme on “ Drone Design and testing” organized by A.C.Tech, Karaikudi, Vaayusastra Aerospace PVT LTD from 24.07.2023 to 28.07.2023.
4. Attended One Week Online AIU Sponsored Faculty Development Programme on “Outcome Based Education for Effective Learning and Teaching” organized by AMET University from 19.07.2023 to 27.07.2023.
5. Attended Five Days FDP on " CO PO Mapping & CO PO Attainment " conducted by IQAC cell in association with the R & D cell of Greater Kolkata College of Engineering & Management (JIS Group) from 10.07.2023 to 14.07.2023.

6. Attended Online one week FDP Program on “Soft Computing Technologies in Engineering Application” organized by Velammal College of Engineering and Technology, Madurai from 24.02.2023 to 03.03.2023.
7. Attended One Week FDP on “Research Methodology” Organized by Greater Kolkata College of Engineering and Management, IQAC cell from 04.07.2022 to 08.07.2022.
8. Attended Six Day Online Faculty Development Program on “Control Engineering in Electric Vehicles” conducted by Department of Electrical and Electronics Engineering in association with SRM TRPEC IEEE Students Branch and IIC from 07.02.2022 to 12.02.2022.
9. Attended two week workshop on “Innovation in technology leading to Entrepreneurship” organized by IQAC & Innovation Cell of GKCEM, Kolkata from 14.02.2022 to 25.02.2022.
10. Attended webinar on Systematic Approach to increase the citations of your publication” Organized by Chalapathi Institute of Engineering and Technology, Guntur on 11.10.2021.
11. Attended Two Days FDP Program On “Power System Design Simulation and Analysis using DIgSILENT PowerFactory Software” of DIgSILENT GmbH, Germany in association with M/s DELLSOFT Technologies Pvt. Ltd. New Delhi from Aug, 24 - 25, 2021.
12. Attended Faculty Development Programme (FDP) on Patent Drafting, Filing and Processing organised by Velammal College of Engineering and Technology, Madurai on 17.09.2021.
13. Attended FDP on “Modelling and Simulation of smart grid and hybrid Electric Vehicles” organized by Loyola-ICAM College of Engineering and Technology, Chennai from 22.07.2021 to 23.07.2021.
14. Attended IEEE FDP on "Advanced Reactive Power Management of power networks" organised by IEEE Madras Section, Dhanalakshmi Srinivasan Engineering College, Perambalur from 05.07.2021 to 08.07.2021.
15. Attended Six Days Online Faculty Development Program - New Trends and Challenges in Electric Power Transmission organized by department of Electrical and Electronics Engineering, Velammal College of Engineering and Technology, Madurai from 10.05.2021 to 15.05.2021.
16. Attended TWO WEEK FACULTY DEVELOPMENT PROGRAMME (FDP) ENTREPRENEURSHIP – ONLINE PROGRAMME - 2020-2021 from January 18 to January 30



17. Attended Virtual FDP on “Research, Innovation & Techno-Entrepreneurship (RITE-2021)” Organized by the Research & Development Cell and Students Innovation Club, Vemu Institute of Technology, P.Kothakota,Chittoor held from 14 to 18, June 2021.
18. Attended two days online FDP on “Challenges and Innovation in Renewable Energy Technologies by 2020” organized by Electrical & Electronics Engineering Department Tagore Institute of Engineering and Technology, Salem on 9th & 10th May 2020.
19. Attended One week on line FDP on “Research Challenges and Innovations in Renewable Energy systems” organized by AarupadaiVeedu Institute of Technology, Paiyanoor,Chennai from 11.05.2020 to 16.05.2020.
20. Attended One week on line FDP on “Innovations to Academicians” organized by Ramachandra College of Engineering and NSTEDB, Eluru from 11.05.2020 to 16.05.2020.
21. Attended twodays on line FDP on “Electrical Power Utility Management-2020” organized by K.L.N. College of Engineering, Pottapalayam from 15.05.2020 to 16.05.2020.Attended One week on line FDP on “Power Quality and Reactive Power Management” organized by Sharad Institute of Technology, College of Engineering, Yadrav (Ichalkaranji)from 01.06.2020 to 05.06.2020.
22. Attended One week on line FDP on “eSim - A Free and Open Source EDA Tool” organized by Pragathi Engineering College and Spoken Tutorial IIT Bombay, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT)from 15.06.2020 to 19.06.2020.
23. Attended One week on line FDP on “Recent Challenges and Emerging Techniques on Microgrid” organized by G. Narayanamma Institute of Technology and Science, Hyderabad from 16.06.2020 to 20.06.2020.
24. Attended One week on line FDP on “Future research scope in Electrical Engineering” organized by St.Joseph’s College of Engineering,Chennai from 22.06.2020 to 26.06.2020.
25. Attended four days on line FDP on “Clean and Sustainable Energy” organized by Yogananda College of Engineering and Technology,Jammu Kashmir and IIC from 25.06.2020 to 28.06.2020.
26. Attended three days on line FDP on “Micro Grid: Operation and Control” organized by SSN college of Engineering,Chennai from 16.07.2020 to 18.07.2020.
27. Attended four days on line FDP on “Deep Learning Networks and Applications” organized by IEEE Madras Section from 26.08.2020 to 29.08.2020.
28. Participated one week online FDP on “NAAC Awareness Programme for Faculty” organized by Marathawada Mitramandal’s Institute of technology,Pune on 8.5.2020 - 14.5.2020.

29. Attended three days FDP on “Programme Monitoring Office-Innovation & Entrepreneurship Development Programme” organized by Thiagarajar College of Engineering, Madurai Sponsored by Entrepreneurship Development and Innovation Institute from 16.09.2019 to 18.09.2019.
30. Attended two week FDP on “Entrepreneurship Development Programme” organized by Anna University Regional Campus, Madurai-Sponsored by DST-EDII from 17.06.2019 to 29.06.2019.
31. Attended one day FDP on “Smart Grid” organized by Velammal College of Engineering and Technology, Madurai on 31.10.2018.
32. Attended three days FDP on "Software tools for simulation and analysis of Power System" organized by IEEE Madras Section & Kalasalingam Academy of Research and Education on 24.05.18 to 26.05.18.
33. Attended two week FDP on “Electric Power System, National Mission on Education through ICT (MHRD, Govt. of India)” organized by Anna University Regional Office, Madurai from 10.07.2017 to 15.07.2017.
34. Attended one Week FDP on “Electro Magnetic Theory” organized by Velammal College of Engineering and Technology, Madurai on 06.06.2016 to 12.06.2016.
35. Attended two days FDP on “MATLAB Applications to Engineering Problems” organized by Velammal College of Engineering and Technology, Madurai on 14.10.2015 to 15.10.2015.
36. Attended two Weeks FDP on “Research Methodologies in Electrical Engineering” organized by Mepco Schlenk Engineering College,Sivagasi on May10th to 24 th 2015.
37. Attended two days FDP on “MATLAB Applications for Research Engineering Problems” organized by Velammal College of Engineering and Technology, Madurai on 08.10.2014 to 09.10.2014.

**List of Workshop/Seminar/Online Webinar Attended:**

1. Attended in IP Awareness/Training program organized by Intellectual Property Office, India on December 15,2022.
2. Attended Webniar on National Education Policy 2020 - What It Entails For Professional Education” organized by VCET on 01.05.2021.
3. Attended Webinar on IoT in smartgrid organized by department of Electrical and Electronics Engineering, Velammal College of Engineering and Technology, Madurai on 15.04.2021

4. Attended IEEE Live Webinar on “How to Publish a High Quality Technical Journal Paper” organized by IEEE on 24.04.2020.
5. Attended Skycampus - Webinar on “Leading in a VUCA World “ conducted by ICT Academy from 21.04.2020 to 24.04.2020.
6. Participated in the “Quiz on Control system” organized by Department of Electrical and Electronics Engineering, Syed Ammal Engineering College, Ramanathapuram on 08.05.2020
7. Attended online Webinar on “Power System Operation & Control with MATLAB® Simulations” organized by CK College of Engineering & Technology, Cuddalore from 21.05.2020 to 23.05.2020.
8. Attended online Webinar on “Research opportunities of Power Converters” organized by K.Ramakrishnan College of Technology,Trichy on 21.05.2020.
9. Attended online Webinar on “Virtual Reality” organized by SRM Institute of Technology on 14.05.2020.
10. Attended online Webinar on “Research opportunities in power systems employing Advanced Facts controllers” organized by Rajalakshmi Engineering College,Chennai on 12.06.2020.
11. Attended online Webinar on “Snakes and Ladders of Entrepreneurs in post covid-19” organized by PSR Engineering College,Sivakasi on 11.06.2020.
12. Attended online Webinar on “Role of Entrepreneur in implementing 5S’ and Kaizen” organized by PSR Engineering College,Sivakasi on 14.06.2020.
13. Attended online Webinar on “Recent Advances In On-line Monitoring of Transformers” organized by PSR Engineering College,Sivakasi on 19.06.2020.
14. Attended online Webinar on “Grid Modernization and Smart Grid” organized by SACS MAVMM Engineering College, Madurai on 20.06.2020.
15. Attended online Webinar on “Application Design of Brain Computer Interface” organized by Adamas University on 13.06.2020.
16. Attended online Webinar on “Engineering design parameters and its pragmatic impacts during wind and solar PV project execution” organized by Velammal College of Engineering and Technology, Madurai on 03.08.2020.
17. Attended online Webinar on “Power Distribution in High-Rise Buildings @ Dubai” organized by Velammal College of Engineering and Technology, Madurai on 28.08.2020.
18. Attended online Webinar on “Strategies to improve the department standard for the Autonomous status” organized by Velammal College of Engineering and Technology, Madurai on 17.10.2020.

19. Attended one day work shop on “Mini POCO 2018” organized by IEEE Madras Section, Hotel Heritage, Madurai on 15th Sep 2018.
20. Attended two days Workshop on “Smart Grid & Micro Grid - Research Issues” organized by Electrical & Electronics Engineering Department Mepco Schlenk Engg. College, Sivakasi on 4th & 5th May 2018.
21. Attended one day Business conference on “WECON the power to empower” organized by Tamilnadu Chamber of commerce Industry on 27th Feb 2018.
22. Attended two days National Seminar on “Energy Storage Devices-ESD’15 ” organized by Velammal College of Engineering and Technology, Madurai on 08.10.2015 to 09.10.2015.