

M.DEVAKI, B.E., M.E.

Assistant Professor -III/EEE

Velammal College of Engineering and Technology, Madurai

mde@vcet.ac.in, m.devakieee@gmail.com

Educational Qualification:

COURSE	INSTITUTION	BOARD/UNIVERSITY	YEAR OF PASSING	% / CGPA
Ph.D. (Electrical Engineering)	Velammal College of Engineering & Technology	Anna University, Chennai	Received provisional status	9 (4 course work)
M.E. (Power Systems Engineering)	Velammal College of Engineering & Technology	Anna University, Chennai	2015	8.59 (First Class with Distinction)
B.E. (EEE)	Raja College of Engineering & Technology	Anna University, Tirunelveli	2011	82 (First Class with Distinction)
XII (HSC)	Nirmala Girls Hr. Sec. School	State Board	2007	77.5
X (SSLC)	Nirmala Girls Hr. Sec. School	State Board	2005	81.8

Experience in Years: 11 years 10 months

Employment History:

Name of the Institute	Duration	Total Experience(in years)
Velammal College of Engineering & Technology	04.07.2011 to till date	12.01

Subjects Handled:

S.No.	UG/PG	Subject Name	%
1.	UG	Measurements & Instrumentation	100
2.	UG	Advanced Control System	100
3.	UG	Power Plant Engineering	100
4.	UG	Electrical Energy Generation, Utilisation & Conversion – B sec	100
5.	UG	Transmission & Distribution	100
6.	UG	Digital Logic Circuits	100
7.	UG	Bio Medical Instrumentation	96.55

8.	UG	Digital Logic Circuits	A -90.16 B – 79.63
9.	UG	Power System Analysis – A sec	93.33
10.	UG	Digital Logic Circuits – A sec	83.33
11.	UG	Smart Grid	97.5
12.	UG	Digital Logic Circuits – C sec	87.5
13.	UG	Power System Transients	81.96
14.	UG	Digital Logic Circuits	87.09
15.	PG	Advanced Power System Protection	100
16.	PG	Advanced Power System Dynamics	75
17.	PG	Advanced Power System Analysis	100
18.	PG	Advanced Power System Dynamics	100
19.	PG	Smart Grid	100
20.	PG	System Theory	100

Publications Details:

International Journal Publication Details:

1.M.Devaki, N.Gaayathri, Dr.A.Shunmugalatha, R.Saranya “ A Review on IoT Based Power Quality Monitoring in Smart Grid”, Journal for Basic Sciences, Volume 23, Issue 6, June 2023.

2.R.Saranya, M.Devaki, K.Keerthika, S.Jaswanthra Samyuktha, T.Aarthy “ SMART NAVIGATION SYSTEM”, International Research Journal of Modernization in Engineering Technology and Science, Volume 04, Issue 08, August 2022.

3. M.Devaki, Harini, Jeyaprabha, Jeyashree “Automatic Speed Control Of Vehicle By Image Processing”, Suraj Punj Journal for Multidisciplinary Research (SPJMR), Volume 11, Issue 4, 2021.

4. A.Radhika, A.Shunmugalatha, N.Karuppiyah, M.Devaki "Mitigation Of Power Quality Issues Using PV-UPQC and MTG-UPQC In A Distribution System",Journal of Electrical Engineering (JEE) Volume 20, Edition 4, 2020.

5. M.Devaki, T.Shruthy, D.Packiyalakshmi "Wireless Controlled Rough Terrain Vehicle to Detect Alive Human in Earthquake Areas Using Rocker Bogie Suspension” in International Research Journal of andTechnology(IRJET) Volume 7,Issue 2, 2020. Pages : 2955 to 2959,e- ISSN: 2395-0056, p- ISSN: 2395-0072.

6.M.Devaki, Venkatesh R N S, Santhosh M.R., Mohammed Mydeen "Trans-Glass With Convolution Neural Network and LSTM” in International Journal for Research and Development in technology (IJRDT) Volume 7,Issue 9, 2020, Pages : 356 to 361, ISSN:-2349-3585.

7.M.Devaki, S.Bhavani, M.Manimala, K.Aishwarya “IoT Based Innovative Agriculture Automation Using AGRIBOT” International Journal of Advanced Research in Basic Engineering Science & Technology (IJARBEST) Volume 4, Issue 4, 2018.

8. M.Devaki, A.Radhika,Dr.A.Shunmugalatha“Augmentation of Photovoltaic Power into Grid for Power Quality Improvement Using Unified Power Quality Conditioner (UPQC) with P&O Based MPPT”, International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, May 2015, Vol.4, Issue.5, pp.4358 - 4366. ISSN (online) : 2278 – 8875

International Conference Presentation Details:

1. Presented a paper titled “IoT Based Pollution Monitoring System” in International Conference on Power and Energy Systems at Velammal College of Engineering & Technology, Madurai during March 17 and 18, 2023.

2. Presented a paper titled “Comprehensive Study on Battery Management System” in International Conference on Power and Energy Systems at Velammal College of Engineering & Technology, Madurai during March 17 and 18, 2023.

3. Presented a paper titled “Fire Fighting Robot” in International Conference on Power and Energy Systems at Velammal College of Engineering & Technology, Madurai during March 17 and 18, 2023.

4. Presented a paper titled “Arduino Based Speaking Plant” in International Conference on Power and Energy Systems at Velammal College of Engineering & Technology, Madurai during March 17 and 18, 2023.

5. Presented a paper in “Automatic Speed Control of Vehicle by Image Processing” in 5th International Conference on Engineering, Technology and Science at Muthayammal College of Engineering, Rasipuram, Namakkal.

National Conference Presentation Details:

1. Presented a paper titled “Dynamic Air Pollution Monitoring using IoT” in National Conference on Innovation in Engineering and Technology organized by Department of Information & Technology held at Velammal College of Engineering & Technology, Madurai during 24th Nov, 2022

2. Presented a paper titled “A Review on Segmentation and Classification of Lung Images Using Deep Learning Techniques” in National Conference on Innovation in Engineering and Technology organized by Department of Information & Technology held at Velammal College of Engineering & Technology, Madurai during 24th Nov, 2022

3. Presented a paper titled “Food Quality Monitoring using IoT” in National Conference on Innovation in Engineering and Technology organized by Department of Information & Technology held at Velammal College of Engineering & Technology, Madurai during 24th Nov, 2022

4. Presented a paper titled “IoT Based Innovative Agriculture Automation using Agribot” in National Conference on Innovative Technologies in Computer & Communication ITC22k18 held at Velammal College of Engineering & Technology, Madurai.

5. Presented a paper on “Voltage Profile Improvement using Unified Power Quality Conditioner (UPQC) with rooftop PVs” in 5th National Power Engineering Conference NPEC’15 held at Thiagarajar College of Engineering, Madurai.

Book Publications:

1. Published a book titled “RENEWABLE ENERGY SOURCES” in Technical Publication,2020.

2. Published a book titled “BIOMEDICAL INSTRUMENTATION” in Akinik Publication,2021.

Patent Publications:

1. Published a design patent IoT Based Automated Rail Track Inspection Trolley under IPR(Intellectual Property Rights India) during May 2023.

Project Proposal:

1. Submitted project proposal titled “ Intelligent Animal Intrusion Detection and Extruder” under Chief Minister’s Research Grant during March 15, 2023.

Online Course / Certification:

1. Completed MOOC online course on “Essential Life Skills” during March 2023.

2. Completed online course “Google Project Management” under Coursera organized by Naan Mudhalvan and Common Wealth of Learning during March 2023.

3. Completed MOOC online course on “Introduction to Monitoring & Evaluation” during 2nd December, 2021.

4. Completed one month course on “Renewable Energy System” under Pantech e Learning from 17th October, 2021 to 16th November,2021.

5. Completed NPTEL course on “Introduction to Research” during July to September, 2016.

Industry Internship:

1. Completed one month Industry Internship on “Industrial Artificial Intelligence Applying Deep Learning Concepts” under Edge Matrix Multinational Corporation from 17th January, 2023 to 17th February, 2023.

2. Completed 15 days Internship Program on “Deep Learning Using MATLAB” under Pantech e Learning from 6th December,2021 to 21st December, 2021.

Events Organized:

1. Organized “Determining the stability of a system – A design thinking perspective” under Special Interest Group – Power and Energy Systems during May 2023.
2. Organized “Explore Electrical Engineering Innovation: An exclusive quiz contest for budding innovators” under Special Interest Group – Power and Energy Systems during February 2023.
3. Organized “Energy Auditing and Management: A big shift towards energy conservation” under Special Interest Group – Power and Energy Systems during February 2023.
4. Organized Naan Mudhalvan Course titled “Electric Vehicle Charging System” during November & December 2022.
5. Organized “Awareness on Energy Conservation” under Special Interest Group – Power and Energy Systems during October 2021.
6. Organized “Technical Quiz on Renewable Energy System” under Special Interest Group – Power and Energy Systems during November 2021.
7. Organized a Webinar on “IoT in Smart Grid” during 15th April, 2021.
8. Organized a online Guest Lecture on “Programming PIC Microcontrollers using Embedded C and Develop your own Products” during 28th August, 2020.
9. Organized a Online six days FDP on “Recent Trends in Electrical Energy Conservation and Grid Technology” during 12th October, 2020 to 19th October, 2020.
10. Organized two day FDP on “Online & Offline Real Time Controller Applications” during 20th October, 2016 & 21st October, 2016.

Events Attended:

1. Attended a FDP in Entrepreneurship organized by Centre for Entrepreneurship Development during 03.04.2023 to 15.04.2023.
2. Attended a six days online FDP on “Control Engineering in Electric Vehicles” organized by SRM TRP Engineering College during 07.02.2022 to 12.02.2022.
3. Attended a webinar on “Solar PV grid Integration – Need and Challenges” organized by Velammal College of Engineering & Technology on 28.07.2021
4. Attended a six days online International FDP on “Research Innovations and Emerging Advances in Electrical Engineering” organized by Easwari Engineering College during 14.06.2021 to 19.06.2021.
5. Attended a six days online FDP on “New Trends and Challenges in Electric Power Transmission” organized by Velammal College of Engineering & Technology during 10.05.2021 to 15.05.2021.

6. Attended a webinar on “National Education Policy 2020 – What It Entails for Professional Education” organized by Velammal College of Engineering & Technology on 01.05.2021
7. Attended a webinar on “Strategies to improve the Department Standard for the Autonomous Status” Organized by Velammal College of Engineering & Technology on 17.10.2020
8. Attended a webinar on “Hybrid Energy Storage Systems in Electric Vehicle Applications” organized by Velammal College of Engineering & Technology on 06.10.2020
9. Attended a webinar on “Role of Polymer Nanotechnology in Energy Harvesting and Storage” organized by Velammal College of Engineering & Technology on 16.09.2020
10. Attended a webinar on “Power Distribution In High-Rise Buildings @Dubai” organized by Velammal College of Engineering & Technology on 28.08.2020
11. Attended a webinar on “Engineering Design Parameters and Its Pragmatic impacts during Wind and Solar PV Project Execution” organized by Velammal College of Engineering & Technology on 03.08.2020
12. Attended a webinar on “Design And Analysis Of Motors Used In Electric Vehicle” organized by Rajalakshmi Engineering College, Thandalam, Chennai on 12.07.2020
13. Attended a webinar on “Energy Manager & Auditor Exams - Aspects and Prospects” organized by Easwari Engineering College, Chennai on 30.06.2020
14. Attended a Webinar on " Application of Power Electronics in Solar Energy System" organized by Mandsaur University, Mandsaur (M.P.) on 28.06.2020.
15. Attended a Webinar on " Digital Transformation Technologies in Industrial Equipments" organized by Rajalakshmi Engineering College on 26.06.2020.
16. Attended a Webinar on " Operation and Management of Indian Power System" organized by Panimalar Engineering College on 25.06.2020.
17. Attended one week online FDP on "Recent Trends in Power Systems" organized by Sharad Institute of Technology College of Engineering Yadrav (Ichalkaranji) from 22.06.2020 to 26.06.2020.
18. Attended a Technical Webinar on " Grid Modernization and Smart Grid" organized by SACS MAVMM Engineering College on 20.06.2020.
19. Attended Five days FDP on “Power Quality & Reactive Power Management” organized by Sharad Institute of Technology College of Engineering, Yadrav- Ichalkaranji Maharashtra from 01.06.2020 to 05.06.2020
20. Attended one week FDP on “NAAC Awareness Programme for Faculty” organized by Marathwada Mitramandal’s Institute of Technology (MMIT) from 08.05.202 to 14.05.2020.

21. Attended a Webinar on “The Power of Teacher” organized by ICT Academy on 04.05.2020
22. Attended a Webinar on “Teaching And Learning Modes Post COVID – 19” organized by Punjabi University, Punjab on 29.04.2020
23. Attended a Webinar on “The theme Leading in a VUCA World - Season 2 of Skycampus” organized by ICT Academy on 22.04.2020
24. Attended Technology based Entrepreneurship Development Program “Residential Wiring” organized by Velammal College of Engineering & Technology from 08.01.2018 to 16.02.2018
25. Attended One week short term course on “Frontiers in Material Research for Energy Application” organized by Thiagarajar College of Engineering from 11.12.2017 to 17.12.2017
26. Attended one week FDP on “Communication Skills” organized by Velammal College of Engineering & Technology from 27.04.2015 to 07.04.2015
27. Attended seven days FDP on “Digital Signal Processing” organized by Ramco Institute of Technology, Rajapalayam from 03.06.2015 to 10.06.2015
28. Attended a one day FDP on “Hands on Tools with MATLAB” organized by LathaMathavan Engineering College, Madurai on 06.05.2014
29. Attended a two day workshop on “Harmonic Reduction and Management of Reactive Power and Energy for HT Industries” organized by Thiagarajar College of Engineering, Madurai from 11.10.2013 to 12.10.2013
30. Attended a one day workshop on “Fuzzy Systems and Application” organized by National Institute of Technology, Trichy on 13.07.2013
31. Attended a three day FDP on “Control Systems” in K.L.N College of Engineering, Madurai.

RESPONSIBILITIES UNDERTAKEN

1. Exam Cell Incharge
2. Timetable Incharge
3. Co-ordinator for IEEE paper presentation contest held on 11th Feb, 2016.
4. Department Minutes of Meeting (MoM) incharge
5. NBA Criterion IV Assistant
6. Alumni Incharge
7. Anna University Affiliation Visit – Department Co-ordinator
8. Symposium Gennext’23 – Department Co-ordinator
9. College Day Oddeysey’23 – Cultural Co-ordiantor
10. Sports co-ordinator – Department level

11. Guest Lecture Incharge

12. Class Incharge for the Batch 2016-2020.