

Dr. ISMAYIL C.

Associate Professor
Dept. of Electrical and Electronics Engineering
LBS College of Engineering
Kasaragod, Kerala, India- 671542



EDUCATION

- Ph.D.- National Institute of Technology Calicut- 2015
- M. Tech (Power Systems) - National Institute of Technology Tiruchirappalli- Year
- B. Tech (Electrical & Electronics Engineering) - Regional Engineering College Calicut (University of Calicut) - Oct 1990

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RESEARCH INTERESTS

- Advanced Control Techniques, including Fractional Order PID Controllers and Their Tuning Techniques
- Electric Vehicle Technologies, Vehicle-to-Grid (V2G), and Grid Integration
- Nature-Inspired Optimization Algorithms (Genetic Algorithm, Particle Swarm Optimization, Ant Colony Optimization, etc.)
- Artificial Intelligence Techniques for Control and Optimization (Fuzzy Logic, Artificial Neural Networks, and Intelligent Control)

PROFILES

GOOGLE SCHOLAR : <https://scholar.google.com/citations?user=WS2qOLwAAAAJ>

ORCID PROFILE : <https://orcid.org/my-orcid?orcid=0000-0002-7056-187X>

SCOPUS PROFILE : <https://www.scopus.com/authid/detail.uri?authorId=55659810400>

WEB OF SCIENCE PROFILE: <https://www.webofscience.com/wos/author/record/2268293>

SCI ID: <https://sciprofiles.com/profile/3424307>

GEC Kannur Profile: <https://www.gcek.ac.in/facultyece/724/dr-ismayil-c>

PROFESSIONAL EXPERIENCE

PROFESSIONAL EXPERIENCE:

A. Service under the Directorate of Technical Education, Government of Kerala — Main Career

Jun. 2017-May 2024

Professor in Electrical and Electronics Engineering, Government College of Engineering | Dharmasala Kannur

Jul. 2014-May 2017

Professor/Associate Professor in Electrical and Electronics Engineering, Government Engineering College | West Hill Kozhikode

Jun. 2003- Jun. 2014

Associate Professor/Asst. Professor in Electrical and Electronics Engineering, Government Engineering College | Thrissur

Mar. 2001- May 2003

Lecturer in Electrical and Electronics Engineering, Rajiv Gandhi Institute of Technology | Kottayam

B. Experience Prior to Joining DTE

Oct.1999- Nov. 2000

Lecturer in Electrical and Electronics Engineering, College of Engineering | Chengannur, Alappuzha

Dec. 1998- Mar. 1999

Lecturer in Electrical and Electronics Engineering, Government Engineering College | Thrissur

C. Post-Retirement Experience

Academic Year 2024–25:

Lecturer in Electrical and Electronics Engineering, Government Polytechnic College, Periya, Kasaragod.

July 2025–January 2026:

Assistant Professor (Ad hoc), College of Engineering Vadakara

February 2026–June 2026:

Professor, Universal Engineering College, Thrissur.

From July 2026 onwards (Present Employment):

Associate Professor (Contract), LBS College of Engineering Kasaragod.

D. Industrial Experience (Early Career)

Nov. 2000- Mar. 2001:

Assistant Engineer (Electrical), 220kV Substation
Kerala State Electricity Board | Kanchirotte, Kannur

Jul. 1992- Sept 1993:

Project Engineer (Electrical),
Al-Farouk National Est. Riyadh, KSA

SUBJECTS TAUGHT

▪ **UG Level**

Computer Programming in C, Computer Networks, Circuits & Networks, Power Electronics, Control Systems, Power Systems, Digital Electronics, Special Electric Machines, Electric Hybrid Vehicles , Industrial Safety Engineering

▪ **PG Level**

Power Converters, FACTS & Custom Power Devices, Power Electronic Applications in Power Systems, AI Applications in Power Systems, Electric Hybrid Vehicles

ACHIEVEMENTS

1. **Successfully coordinated GATE Coaching Programme** at Government Engineering College Thrissur under the Continuing Education Centre (CEC), managing a programme with **around 200 students** from multiple engineering disciplines. The programme produced several successful GATE candidates who secured admission to **IITs, IISc Bangalore, and NITs**, while generating **more than ₹10 lakh** (excluding expenses) for institutional development.
2. **Mentored 18 M. Tech (Power Electronics & Drives) students**, resulting in **10+ research papers** presented at the **3rd International Conference on Systems, Energy and Environment (ICSEE 2019)**. Served as co-author and research supervisor.
3. **Supervised a funded B. Tech project** sponsored by the **Kerala State Council for Science, Technology and Environment (KSCSTE)**, leading to the **Best Research Paper Award (Power Electronics)** for the paper *Electronic Differential for Electric Vehicle* at RTET 2020.
4. **Guided M.Tech research** that resulted in **three Springer book chapter publications (Lecture Notes in Electrical Engineering, 2022–2023)** in the areas of smart grids, AGC, renewable energy, and EV charging systems.
5. As **Faculty Advisor, IEEE Student Branch**, Government Engineering College Kannur (2017–2019), mentored students whose branch received the **IEEE Malabar Subsection Most Vibrant Student Branch Award (2018)** and the **IEEE Kerala Section Outstanding Student Branch Award (2018)**.
6. **Chaired Technical Sessions** at:
 - a. National Conference on Systems and Signal Processing (NET 2014), Government Engineering College Kozhikode.
 - b. International Conference on Signal, Power, Communication, Security and Computing Applications (2016), College of Engineering Vadakara.

MEMBERSHIPS IN PROFESSIONAL BODIES

1. ISTE: Life Member Ship
2. ECS: Life Membership
3. IEEE: Annual Member

JOURNAL/CONFERENCE PUBLICATIONS

1. Ismayil C., Sreerama Kumar R. and Sindhu T.K., "Optimal Fractional Order PID Controller for Automatic Generation Control of Two-area Power Systems," *International Transactions on Electrical Energy Systems*, Wiley, vol.25, issue. 12, pp. 3329-3488, Dec. 2015
2. Ismayil C., Sreerama Kumar R. and Sindhu T.K., "Fractional Order PID Based Automatic Generation Control in Deregulated Power Systems", *Electric Power Components and Systems*, Taylor & Francis, vol. 43, no. 17, pp. 1931–1945, Sept. 2015
3. C. Ismayil and M. Nanda Kumar, "Novel Scheme to Improve Power Factor of Slip Energy Recovery Drive by Selective Harmonic Elimination," *International Journal of Emerging Electric Power Systems*, vol. 15, no. 4, pp. 367-375, Jun. 2014
4. Ismayil C., Sreerama Kumar R., and Sindhu T. K., "Fuzzy Logic and Genetic Algorithm based Automatic Generation Control of Two-Area Deregulated Power Systems," *International Review on Electrical Engineering*, vol.9, no.1, pp.186-199, Feb. 2014.
5. Ismayil C., Sreerama Kumar R., and Sindhu T. K., "Comparative Analysis of Genetic Algorithm and Fuzzy Logic based Automatic Generation Control of Multi Area Power Systems," *International Review on Modelling and Simulations*, vol. 6, no.1, pp.136-144, Feb. 2013
1. Sreehari P., Nisha B. Kumar and Ismayil C. "Two Stage EV Charger based on Bridgeless PFC Converter for e-Rickshaw," *International Conference on Power, Instrumentation, Control and Computing,- PICC2023*, Govt. Engineering College Thrissur, India, Apr. 19-21, 2023, pp.1-5

- 2 Mithuna E. and Ismayil C., and Harisha D.K., "Combined Econo-Emission Dispatch using Particle Swarm Optimization," 2022 IEEE International Power and Renewable Energy Conference IPRECON, Karungappalli, Kollam, India, Dec. 16-18, 2022, pp.1-6
- 3 Vishnu C. V. and Ismayil C., "Frequency Enhancement in Multi Area Power System by Electric Vehicle Support," in Proceedings of the International Conference on Systems, Energy and Environment, ICSEE 2022, GCE Kannur, Kerala, Aug. 5-6, 2022
- 4 Vismaya P.K. and Ismayil C., "Control of Seamless Charging Station for EV using Multiple Input Sources," in Proceedings of the International Conference on Systems, Energy and Environment, ICSEE 2022, GCE Kannur, Kerala, Aug. 5-6, 2022
- 5 Amrutha G. Nair, K. V. Anandkrishnan, Ismayil C., Suresh. A. and Anilkumar T. T., "Comparative Study of Third and Ninth Harmonics Injected Sinusoidal Pulse Width Modulation for Induction Motor Application," in Proceedings of the International Conference on Systems, Energy and Environment, ICSEE 2022, GCE Kannur, Kerala, Aug. 5-6, 2022
- 6 Vishnu C. V. and Ismayil C., "Optimization of AGC Performance in Multi-area Power Systems with RES and EV using Fractional Order PID Controller," International Conference on Futuristic Technologies in Control Systems & Renewable Energy, ICFCR 2022, Kuttipuram, India, Jul. 21-22, 2022, pp. 1-6
- 7 Haritha T.K., Asokan O.V., Jayaprakash P., Sooraj Suresh Kumar and Ismayil C. "A High Gain Step-up DC-DC Converter Driven BLDC Motor for Fuel Cell Vehicles," in Proceedings of the International Conference on Systems, Energy and Environment, ICSEE 2021, Kannur, India, Jan. 22-23, 2021 pp.316-320
- 8 Renuka Varma P C and Ismayil C. "Study On Carrier Overlapping PWM Technique For Nine Level Inverter." in Proceedings of the International Conference on Systems, Energy and Environment, ICSEE 2021, Kannur, India, Jan. 22-23, 2021 pp.304-309
- 9 Amritha Menon and Ismayil C. "PWM for Multilevel Inverter-State of Art and Comparison of its Various Techniques" in Proceedings of the International Conference on Systems, Energy and Environment, ICSEE 2021, Kannur, India, Jan. 22-23, 2021 pp.296-300
- 10 Aswathi M. E. and Ismayil C. "Staircase Modulation for Thirteen Level Cascaded H Bridge Inverter with Different Staircase Wave Generation Techniques." in Proceedings of the International Conference on Systems, Energy and Environment, ICSEE 2021, Kannur, India, Jan. 22-23, 2021 pp.306-311
- 11 Mohammed Roshan K. and Ismayil C. "Hybrid Electric Vehicle Integrated LFC with Renewable Energy Penetration under Restructured Bilateral Power System," in Proceedings of the International Conference on Communication, Control & Information Science, ICCISc, GEC Idukki, Jun. 16, 2021, pp. 869-874
- 12 Sathyajith V. P. and Ismayil C., "Comparison of Multi-Carrier Based Modified SPWM Techniques for Three Level FCMLI," in Proceedings of the International Conference on Systems, Energy and Environment, ICSEE 2021, Kannur, India, Jan. 22-23, 2021 pp.264-268
- 13 Varunraj A. V., Ismayil C., Harikrishnan N. M., Arjun A. V. and Jishnu K., "Electronic Differential for Electric Vehicle using BLDC Motor and DC Motor," in Proceedings of the International Conference on Systems, Energy and Environment, ICSEE 2021, Kannur, India, Jan. 22-23, 2021 pp.225-230
- 14 Mohammed Roshan K. and Ismayil C., "Fuzzy Proportional Integral Multi-area Thermal Generation Load Frequency Control under Deregulated Scenario," in Proceedings of the International Conference on Systems, Energy and Environment, ICSEE 2021, Kannur, India, Jan. 22-23, 2021, pp. 236-241
- 15 Anusree K V, Ismayil C, Sruthimol N B and Sreekumar C, "Analysis of a PMSG based Six Level Multilevel Inverter Fed from Wind Turbine", in Proceedings of the International Conference on Systems, Energy & Environment, ICSEE 2019, GCE Kannur, Kerala, Aug. 6, 2019
- 16 Chaithanya S., Vineeth K., Ismayil C. and Jayaprakash P., "Comparison of various Modulation Techniques for a Symmetrical Nine-level Cascaded H-bridge Multilevel Inverter fed Induction Motor Drive," in Proceedings of the International Conference on Systems, Energy & Environment, ICSEE 2019, GCE Kannur, Kerala, Aug. 6, 2019
- 17 Reshmi R K, Ismayil C. and Mufsina A M, "Four Level Flying Capacitor Multilevel Inverter with Phase Shifted Carrier-PWM Technique" in Proceedings of the International Conference on Systems, Energy & Environment, ICSEE 2019, GCE Kannur, Kerala, Aug. 6, 2019
- 18 Shaharbana K., Ismayil C., Baburaj P. and Henna Unais," Three Phase Diode Clamped Three Level Inverter with Phase Disposition PWM," in Proceedings of the International Conference on Systems, Energy & Environment, ICSEE 2019, GCE Kannur, Kerala, Aug. 6, 2019
- 19 Naseeha Fareed, Rugma P.and Ismayil C., "Comparative Study of Modified Sinusoidal Carrier Disposition PWM Techniques in a Cascaded H-Bridge Multilevel Inverter," in Proceedings of the International Conference on Systems, Energy & Environment, ICSEE 2019, GCE Kannur, Kerala, Aug. 6, 2019
- 20 Sarath P., Ismayil C. and Neha Suresh M. P., "Staircase Modulation with Different Staircase Wave Generation Techniques for Multilevel Inverters." in Proceedings of the International Conference on Systems, Energy & Environment, ICSEE 2019, GCE Kannur, Kerala, Aug. 6, 2019
- 21 Sachin Narayanan, Sruthi M Surendran and Ismayil C "Comparison of Seven and Nine Level Flying Capacitor-Multilevel Inverter using Staircase and Stepped Modulation," in Proceedings of the International Conference on Systems, Energy & Environment, ICSEE 2019, GCE Kannur, Kerala, Aug. 6, 2019
- 22 Anju M.P. and Ismayil C., "Solar fed Ultra Lift Boost Converter for Induction Motor Drive Applications," in Proceedings of the International Conference on Systems, Energy & Environment, ICSEE 2019, GCE Kannur, Kerala, Aug. 6, 2019
- 23 Sangeetha V., Ismayil C., Asokan O.V. and Abhiram J. S., "A Six Level Diode Clamped Multi Level Inverter with APOD PWM," in Proceedings of the International Conference on Systems, Energy & Environment, ICSEE 2019, GCE Kannur, Kerala, Aug. 6, 2019

24	Swedha S. Babu, Ismayil C., Sukesh A. and Sulfath E., "Performance Evaluation of Multi-Carrier Based SPWM Technique for Three Phase Three level FCMLI", in Proceedings of the International Conference on Systems, Energy & Environment, ICSEE 2019, GCE Kannur, Kerala, Aug. 6, 2019
25	Ismayil C., Sreerama Kumar, Sindhu T.K. and Haseena A., "Optimal Fractional Order Controller for Automatic Generation Control of Hydro-Power System," 2nd International Conference on Systems, Energy and Environment-ICSEE 2017, Centre of Excellence in Systems Energy and Environment, GCE Kannur, Kerala, 15-16 Dec. 2017, pp. 277-282
26	Afshar P. A. and Ismayil C., "A SIMO converter based on SEPIC-Cuk_Boost combination with Coupled Inductor," 2nd International Conference on Systems, Energy and Environment-ICSEE 2017, Centre of Excellence in Systems Energy and Environment, GCE Kannur, Kerala, 15-16 Dec. 2017, pp. 308-313
27	Ismayil C., Sreerama Kumar R., and Sindhu T. K., "Automatic Generation Control of Single Area Thermal Power System with Fractional Order PID ($PI\lambda D\mu$) Controllers," in IFAC Proceedings of the 3rd International Conference on Advances in Control and Optimization of Dynamical Systems, ACODS 2014, Indian Institute of Technology Kanpur, India, 13-15 Mar. 2014, vol.47, Issue 1, pp. 552-557
28	A. R. Soman, C. Ismayil and G. Madhu, "Methodology for Consequence Analysis of Release of Hazardous Materials- A Review," in Proceedings of the International Conference on Materials for the future, ICMF 2008, Govt. Engineering College, Thrissur, India, Jan 2008, pp. 224-229
1	Varunraj A. V., Ismayil C., Harikrishnan N. M., Arjun A. V., Jishnu K. and Asokan O.V., "Electronic Differential for Electric Vehicle," 1st Online National Conference on Recent Trends in Engineering and Technology, RTET'20, Malabar Institute of Technology (MIT), Anjarakandy, Kannur, 20-21 June, 2020
2	C. Ismayil and Jisma M., "Genetic Algorithm based PID Controller Tuning in AVR System," in Proceedings of the 5th National Conference on Innovations in Communications and Computing, NCICC 10, Mar. 5, 2010
3	C. Ismayil, Jisma M. and Suresh K. Damodaran, "Application of Particle Swarm Optimization for the tuning of PID controller in AVR System," in Proceedings of the National Conference on Power, Instrumentation, Control and Computing, PICC 2010, Govt. Engineering College, Thrissur, India 4-6 Mar. 2010, pp 63-68.
4	C. Ismayil, M. Nandakumar and B. Jayanand, "Selective Harmonic Elimination based SERD by means of Genetic Algorithm," in Proceedings of the National Conference on Recent Innovations in Technology, NCRIT-2009, Rajiv Gandhi Institute of Technology, Kottayam, India, 26-28 Mar. 2009, pp-106-111
5	C. Ismayil, K. Anu Sunny and Suresh K Damodaran, "Genetic Algorithm Based PI Controller tuning for load frequency control in Two Area Power Systems," in Proceedings of the National Conference IEEE 09, MPNMJEC, Chennaimalai, Erode, 23 Jan. 2009, pp. 75-77.
6	K. Sundareswaran, H.N. Shyam, V. Krishna Chandran, O.V. Asokan, C. Ismayil and S. Palani, "Development of an Intelligent Optimization Algorithm Through a Colony of Foraging Ants its Applications to D.C. Motor Speed Controller Design," in Proceedings of the National Conference on Electrical Engineering, and Embedded Systems, NCEEE 08, Anna University, Chennai 20-21 Mar. 2008, pp 1-4.

BOOK PUBLICATIONS

1	Vishnu C.V., Ismayil C. and Sumesh Sankar, "Fractional Order PID Controller for AGC in Multi-area Power Systems Along with Renewable Energy" in <i>Intelligent Solutions for Smart Grids and Smart Cities</i> (Lecture Notes in Electrical Engineering), vol 1022, Pierluigi Siano, Sheldon Williamson and Sabeena Beevi, Eds., Springer, Singapore, 2023, pp.207-223
2	Mohammed Roshan K. and Ismayil C., "Automatic Generation Control of De-centralized Power System with V2G Enabled HEV Fleets for Distributed Generation Management" in <i>Smart Energy and Advancement in Power Technologies</i> (Lecture Notes in Electrical Engineering), vol. 927, Kumari Namrata, Jitendra Kumar, Neeraj Priyadarshi and Ramesh C. Bansal, Eds., Springer, Singapore, 21 Oct. 2022, pp.655-666
3	Sathyajit V. P. and Ismayil C., "Grid Connected PV Fed EV Charging Station for College Campus with an Energy Storage Systems" in <i>Smart Energy and Advancement in Power Technologies</i> (Lecture Notes in Electrical Engineering), vol 927, Kumari Namrata, Jitendra Kumar, Neeraj Priyadarshi and Ramesh C. Bansal, Eds., Springer, Singapore, 21 Oct. 2022, pp.793-804

FACULTY DEVELOPMENT PROGRAMS, CONFERENCE & WEBINARS COORDINATED

Programms Coordinated

- ✦ Coordinator of the Faculty Development Programme (FDP) on Advancements in Power Systems and Power Electronics (APSPE-2019), 16th -19th Oct 2019, at Govt. College of Engineering Kannur., sponsored by Department of Technical Education, Govt. of Kerala
- ✦ Coordinator of the Short Term Training Programme on Modern Optimization Tools in Engineering, 26th Feb - 3rd Mar. 2018, at Govt. College of Engineering Kannur., sponsored by Department of Technical Education, Govt. of Kerala
- ✦ A number of programmes coordinated as Branch Counselor (or Faculty Advisor) of Student Branch of GCE Kannur Kerala during the academic year 2018-2019, and motivated the student members for getting the Most Vibrant Student Branch -2018 of IEEE Malabar Subsection and Outstanding student branch Award 2018 of IEEE Kerala Section.
- ✦ Worked as Programme Committee Member in the 4th National Conference (NET 2016) on Emerging Trends in Engineering organized by Government Engineering College Kozhikode during 7 & 8 Oct. 2016
- ✦ Coordinated a few Expert Technical Talks on latest topics by NIT Professors to UG and PG students of GCEK under Visiting Faculty Scheme(VFS) during 2017-2022:
 - (1) Managed the coordination of a recent Visiting Faculty Program for M3 PED and M3 PS (held on 11-11-2022 from 9.30 am to 12.30 pm, on the topic 'Power Processing Devices - New Trends: We were honored to have Dr. Jayaprakash P., HOD (EEE), GEC Wyanad.
 - (2) Facilitated a VFS featuring Dr. Kumaravel S. as the resource person, delving into the intriguing subject of 'Recent Research Trends in Hybrid Electric Vehicles.' This session, held on 02-07-2019 from 11 AM to 1.30 PM, for M3PED and S7EEE students.
 - (3) Spearheaded the coordination of a VFS focusing on "Space Vector Modulation of Multilevel Inverters " tailored for M2 M. Tech (PED) students. This program was facilitated by Dr. Rijil Ramchand from NIT Calicut and took place on 03/05/2019, 9.30AM-12.30 PM.
 - (4) Effectively orchestrated a Visiting Faculty Program titled 'DC-DC Converters for Renewable Energy Applications' for S5 B. Tech students, led by Dr. Kumaravel S. from NIT Calicut, held on 23/11/2018, spanning from 2.00 P.M to 5.00 A.M
- ✦ Setup and demonstrated the experiments in the Power Electronics Laboratory for the for the conduct of Workshop on Power Electronics for Polytechnic Teachers at National Institute of Technology, Tiruchirappalli under the sponsorship of TEQIP during Jun. 2006

LIST OF EXPERT TALKS DELIVERED

Invited Talks

- ✦ Delivered technical talks on “Network Theorems” and “Network Graph Theory” as a Resource Person at College of Engineering Vadakara (CAPE) on Jul. 25th and 26th of Jul. 2019 respectively for Short Term Training Programme on “Circuits & Networks” sponsored by TEQIP-II
- ✦ Delivered a technical talk on “ Artificial Intelligence in Power Systems” as a Resource person for Faculty Development Programme on Grid Interactive Systems, Protection and Control held on on Jul. 23rd of Jul. 2019 organized by LBS College of Engineering Kasaragod sponsored by APJ Abdul Kalam Technological University, Kerala
- ✦ Delivered a series of technical talks on 'MATLAB for Engineering Applications' as a Resource Person, as part of DAKSHA 2022, the 20th Annual ISTE State Student’s Convention held from January 1st to 9th, 2022, at Govt. College of Engineering Kannur.
- ✦ Delivered a series of technical talks on 'Introduction to MATLAB and SIMULINK' as a Resource Person held during August 26th-31st, 2020, at Govt. College of Engineering Kannur, organized by the ISTE GCE Kannur Student’s Chapter

MAJOR ADMINISTRATIVE WORKS UNDERTAKEN

 Institute Level Charges
 Library Advisory Committee member from EEE Department (2022-2024) @GCE Kannur
 RUSA Institute level Coordinator (2014-2015) @GEC Kozhikode
 AICTE Coordinator (2015-2016) @GEC Kozhikode
 Staff in charge of Central Computing Facility (2014-2016) @GEC Kozhikode
 Coordinator for GATE Coaching Classes under Continuing Education Cell (2009-2011) @GEC Thrissur
 Department Level Charges
 Course Coordinator of M. Tech. Power Systems (2019-2023) @GCE Kannur
 PG Course Coordinator of M. Tech. Power Systems (2019-2023) @GCE Kannur
 Time-Table in-Charge of Department of Electrical Engineering (2018- 2023) @GCE Kannur
 Faculty-In-Charge of the Power System Lab (2017-2023) @GCE Kannur
 Criterion 4 - Department level coordinator for preparing Self Assessment Report (SAR) in connection with NBA accreditation (2014-15) @GEC Kozhikode and (2022-23) @GCE Kannur
 Chapter 10-Department level Coordinator for preparing Self Assessment Report (SAR) in connection NBA accreditation 2019 (2018-19) @GCE Kannur
Positions Held - Outside the Institute
 Coordinator (Electrical) for preparation of DPR-KIIFB (2016-2018)
 Doctoral Committee Member of KTU Research Scholars (From 2016 Onwards)
 External Examiner for P.G Viva Voce (From 2016 Onwards)
 Chairman of Board of Question Papers Setters of B. Tech (EEE), Dec.2018

DATE : 19-07-2026

NAME: Dr. Ismayil C.