



Binsy Joseph

ASSISTANT PROFESSOR - ELECTRONICS & COMPUTER SCIENCE
PhD(Pursuing), M-Tech Power Electronics, B-Tech ECE

Dedicated and highly accomplished engineering career with over 21 years of experience in higher education and 4 years in Industry. Expert in Electric Vehicle Battery Management system modelling, Power Electronics and Embedded Control Design. Research guidance and mentoring for UG and PG students .

CONTACT

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CRCE, Bandra, Mumbai

QUALIFICATIONS

Ph.D. in Electronics Engg(Pursuing)

University of Mumbai
Area : Electric Vehicle

M.Tech in Power Electronics Eng.

Amrita Vishwa vidyapeetham,
Coimbatore (2003-2005)

B.Tech in Electronics & Communication Eng.

University of Calicut

COURSES TAUGHT

- Electric Vehicle (UG)
- Advanced Power Electronics & Drive (PG level)
- Power Electronics (UG/PG)
- Computer Networks
- Analog & Digital Communication Engineering
- Industrial Electronics
- Basic Electrical Engineering

EXPERTISE

- Electric Vehicle - Battery Management System
- Power Electronics
- Modelling and Simulation
- Grid Connected PV System
- Curriculum Development

EXPERIENCE

Assistant Professor

March 2011 - Present

Fr Conceicao Rodrigues College of Engg, Mumbai

Lecturer in Electronics Engineering(CRCE)

February 2006 - March 2011

C-DAC Trivandrum (Senior Research Fellow)

Aug 2004 – Sept 2005.

Industry Experience

3 Yrs

PUBLICATIONS

- Binsy Joseph, D.V Bhoir (2026). "Design and Implementation of a Converter-Based Active Battery Cell Equalization System for Electric Vehicles", International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engg,
- B Joseph, DV Bhoir, " Design and Assessment of Electric Vehicle Performance Parameters based on Drive Cycle", International Conference on Automation, Computing and Communication (ICACC-2021) July 14-15, 2021.
- B Joseph, D V Bhoir, " Design and Simulation of Wireless Power Transfer for Electric Vehicle", International Conference on Advances in Computing, Communication and Control (ICAC3) 2019,
- F Shaikh, B Joseph, "Simulation of synchronous reference frame PLL for grid synchronization using Simulink ", International Conference on Advances in Computing, Communication and Control (ICAC3) 2017
- Binsy Joseph, " Harmonic Reduction in Three Phase Rectifier Using Current Injection", Communications in Computer and Information Science book series (CCIS, volume 296) 2013
- Binsy Joseph, Ahmad Nadeem, " Multilevel Inverters with Its Control and Power Quality Parameters", Issue 1 ,vol 3, Imperial Journal of Interdisciplinary Research, 2017
- Anju Yadav, Binsy Joseph, "Sinusoidal Current Control based Shunt Active Power Filter for current Harmonics Reduction", International Journal of Science and Research, Issue 7 ,vol 4, 2015
- Binsy Joseph, " Sinusoidal Current Control based Shunt Active Power Filter for current Harmonics Reduction", International Journal of Global Technology Initiatives, Issue 1 ,vol 1, 2012

RESEARCH GRANTS

- Mumbai University Minor Research Grant (MRG) scheme, 2016-2017)
- Project Title: " Smart Micro Grid using Solar Power"
- Amount: 25,000/-

PROFESSIONAL AFFILIATIONS

- IEEE Member (No: 99069594)
- ACM Member(No: 4084906)
- LifeMember-Indian Society of Technical Education (ISTE)No.105262

- <https://orcid.org/0000-0003-2887-2196>
- Scopus ID: 55596911000

ADMINISTRATIVE RESPONSIBILITIES

- NBA and NAAC criteria Co-ordinator from 2017 onwards.
- Mini Project coordinator for the period 2020-2021,2021-22 (SE) , 2022-2023 (TE)
- Examination Department coordinator for the period 2021 To 2022
- Coordinator – Program Committee - International Conference ICAC3'19, ICAC3'21
- Coordinator – Finance committee in ICAC3'17, ICAC3'19
- Coordinated one week STTP on "Accreditation & Internet of Things" from 27 th June to 1sr July 2016.
- Coordinated Two day FDP Power Electronics , 12-13 January 2015.
- Coordinated two week STTP on Embedded systems , " on August 2014.
- Class Teacher and Mentor
- Lab Incharge
- Syllabus setting for University and Autonomus Curriculum syllabus
- University Paper setting

WORKSHOPS CONDUCTED

- Organized Hands-on Workshop on "Mixed signal circuit Simulation using e-Sim and Research migration project" from 31st Oct to 1st Nov 2025
- One week ISTE STTP on Accreditation & Quality Assurance from November 17-21,2014
- Co-ordinator of One week ISTE STTP on Embedded Systems & Real Time Applications January 04-08, 2010
- Co-ordinator of Workshop on Advanced Power Electronics & Drives August 2010
- Co-ordinator of Workshop on Neural Network & Applications 2012

TRAININGS ATTENDED

- Completed Innovation Ambassador Training under AICTE & Innovation Cell during July-Aug,2025.
- One week ATAL FDP on Wireless Power Transfer with Renewable Energy and IoT Integration: 25th-30th, Aug 2025
- ATAL FDP on "Introduction to mruby for Electric Vehicle Control System and Battery Management",8th-13th Sep,2025.
- Participated in CEP TEQIP Course on "Power Electronics Applications to Renewable Energy Conversion"; conducted under TEQIP II by IIT Bombay during Feb 17-22, 2017.
- Attended one week TEQIP-II sponsored workshop on "SMART GRIDS: Renewable integration and Micro grids"; in collaboration with IIT Kanpur at VJTI during 25th Feb-1st March,2017.
- Participated in workshop on "Innovative Research in Pedagogy with Mini MOOCs to Enhance Quality in Higher Education"; from 7-8 July,2017 at Fr.CRCE Bandra.
- Participated in Two days FDP on "Hands-on Training on System Simulation Tools (MULTISIM, LABVIEW and ULTIBOARD)"; on 5th and 6th August, 2016.
- Participated in 2-Days Faculty Development programme on "Intellectual Property Rights"; 05th Feb. 2016 – 06th Feb. 2016.
- Seminar on "Designing and Implementing Signal Processing, Computer Vision and Communication Systems using MATLAB and Simulink" organized by Design Tech Systems Ltd on 12th April, 2016 at Fr.CRIT, Vashi.
- Participation in FDP on power electronics based Matlab/ simulink held at RAIT between 31st July to 1st August 2015.
- ISTE Approved Wipro Mission 10X Advanced workshop on "Effective Teaching Methodology"; at Fr.CRCE, Bandra,2012.
- ISTE workshop on "Writing Effective Conference Papers"; under the National Mission on Education through ICT conducted by IIT Bombay 2012.
- Participated two day workshop on "Stress management and how to avoid stress"; held on 1st & 2nd February 2013 at Mumbai University.
- Participated in two day FDP on "Project Management, Knowledge management, SAN and emerging wireless technology"; held on 6th and 7th February 2013 conducted by Tata consultancy services at TCS Thane.