



Mr. Abhilash O S

Assistant Professor, Electronics & Communication Engineering
Christ College of Engineering, Irinjalakuda

ADMINISTRATIVE RESPONSIBILITIES (CURRENT YEAR)

- Tutor, S7 ECE
- Cycle Club Committee Head
- NSS Programme Officer
- CPG Committee Member
- Member, Photography and Reels Club
- Tour Coordinator
- File In-charge : MoUs, Value Added Sessions
- Sub-Coordinator, Criterion 9
- Social Media Committee Member
- Comedy Club Committee Member

EDUCATION

- M.Tech in Microelectronics & VLSI — IIT Hyderabad
- B.Tech in Electronics & Communication — University College of Engineering, Trivandrum

EMPLOYMENT HISTORY

- **Christ College of Engineering, Irinjalakuda** — Assistant Professor, Electronics & Communication | 2024 – Present
- **FIST, Poomala** — Assistant Professor, Electronics & Communication | 05/2015 – 08/2019
- **Govt. Engineering College (GEC), Thrissur** — Assistant Professor, Electronics & Communication | 01/2020 – 06/2020
- **IIT Palakkad** — Junior Research Fellow (JRF) | 1 year 6 months

PUBLICATIONS

Journals / Conferences

- **Comparative Study of Signal Processing Algorithms for Noise Reduction and Sonar Signal Reconstruction.** K. K. P. J., K. A. Anulekha, N. V. Anil, A. M. Anto, O. S. Abhilash. 2025 2nd International Conference on Trends in Engineering Systems and Technologies, 2025.
- **Ferroelectric Negative Capacitance Inspired Driver Circuits for Electrostatic MEMS Actuators.** 2022 IEEE International Conference on Emerging Electronics (ICEE), pp. 1–5, December 2022.

Patent

- **Design and Development of Artificial Intelligence Based Architecture of Smart Grid Integrated with Wireless Communication Networks.** Indian Patent Office, published.

FACULTY DEVELOPMENT PROGRAMMES, WORKSHOPS & CERTIFICATIONS

2024 – 2026

- FDP on “Deep Learning, Transformer Architectures and Intelligent Robotic Systems” (6 days), LBS Institute of Technology for Women, Thiruvananthapuram — 22–27 June 2026

- AICTE 5-day Online FDP on “Inculcating Universal Human Values in Technical Education” — 10–14 November 2025
- Launch of PESCCICON 2026 (International Conference on Power, Energy, Signals, Control and Computation), Christ College of Engineering — 1 July 2025
- 2-Day Faculty Enhancement Programme “Elevate 2025”, Christ College of Engineering — 25–26 June 2025
- NPTEL Online Certification: Microprocessors and Microcontrollers (12 weeks), IIT Kharagpur — Jan–Apr 2025
- AICTE ATAL FDP on “Cutting-Edge Approaches to Natural Language Processing and Large Language Models”, Dr. J.J. Magdum College of Engineering — 16–21 December 2024
- Embedded Linux Programming — December 2024
- Five-day workshop on Application of Artificial Intelligence and Machine Learning, St. Thomas Institute for Science & Technology with ISTE Kerala Section — 5–9 August 2024

Earlier

- I2P Makers Workshop (2-day, Design and Engineering), KTU with FISAT — 5–7 October 2016
- Spoken Tutorial Expertise – An Insight (1 day), Amal Jyothi College of Engineering — 16 July 2016
- KTU Workshop on “Sustainable Engineering”, College of Engineering Trivandrum — 2016
- INUP Familiarization Workshop on Nanofabrication Technologies, IIT Bombay — 26–28 May 2014
- IEEE Multi-Conference on Systems and Control (MSC 2013), Hyderabad

AREAS OF INTEREST & EXPERTISE

- **MEMS technology:** fabrication of sensors and actuators; IC fabrication processes including MEMS and NEMS for bio-engineering applications.
- **Clean room experience:** Double Side Mask Aligner (MA6) and nano-imprint lithography.
- **Digital system design & VLSI:** VHDL, CMOS design, digital circuit fundamentals, MATLAB and digital signal processing.
- **Microcontrollers & microprocessors:** 8051, 8085, 8086; embedded systems and Embedded Linux.
- **AI & deep learning:** TensorFlow, PyTorch, CNNs for image processing, NLP and large language models, transformer architectures.
- **Programming:** C, C++, Python, MATLAB.

GATE

GATE 2012 — Qualified | Score: 765 | All India Rank: 323 | Percentile: 99.82