



Roshith K

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Qualifications:

- B.Tech in Applied Electronics & Instrumentation
- M.Tech in Instrumentation & Control
- Pursuing PhD

Experience:

- Working as Assistant Professor in Electronics & Communication Engineering College of Engineering Vadakara since
- Worked as Assistant Professor in Electronics & Instrumentation Engineering College of Engineering Vadakara from 1/7/2010 to Present
- Worked as Adhoc Lecturer in Electronics & Instrumentation Engineering, College of Engineering Vadakara from 10/9/2008 to 31.04.25

Total service: Teaching 17 years , Industry : 1 Year

Areas of Interest:

- Embedded Systems
- Artificial Intelligence
- Machine Learning,
- Internet of Things
- Robotics
- Automation

Positions held:

1. Vice President, IIC
2. Currently working as R& D Coordinator and IEDC co coordinator from 1/8/2022
3. IEDC Nodal Officer from October 2024 to Present : Established the Innovation and Entrepreneurship Development Cell (IEDC) with three startups, and initiated the setup of the IEDC facility and the organization of the IEDC Education Conclave.
4. District level evaluator of YIP 5.0,6.0,7.0
5. Head of the Department of Electronics and Instrumentation from 2011 to 2014; during this tenure, TEQIP Phase II was successfully established in the department.
6. Technical Coordinator of the college's first Technical Festival (Quasso Liberum, QL) in 2011

7. In charge of Campus Management software (CMS) from 2018 to 2024,
8. Developed and maintained the college website from 2017 to 2022.
9. IEEE Student Branch Counsellor at the college from 2011 to 2018. Also served as the opening Counsellor of the IEEE-CS (Computer Society) Student Chapter established in the institution in 2021.
10. Syllabus Committee Chair for Diploma in Automation and Robotics
11. Certified e-Yantra Trainer and Team Leader of the e-Yantra initiative by IIT Bombay; established the e-Yantra Robotics Lab at the college.
12. Founder of Finite Intelligence (FI), a department-initiated startup registered under the IEDC.

Proposals Prepared :

1. Departmental Proposal for TEQIP Phase -II
2. Detailed Project Report (DPR) prepared for Diploma in Automation and Robotics
3. Detailed Project Report (DPR) prepared for the Innovation and Entrepreneurship Development Cell (IEDC)

Subjects Taught:

- Electronic Circuits and logic Design , Microprocessors and Micro controllers,

External Engagements and Jury Roles

i. Expert talks

1. Embedded System Design using 8051 Microcontroller, GEC KKD
2. Basics of Internet of Things, College of Engineering Thalassery

ii. Professional Outreach and Judging Roles s

District Level Evaluator, YIP 5.0,6.0,7.0

Projects Guided:

i) Projects guided during last 3 years

1. PARKio: An IoT based City Parking System with optimization
2. Resource management in IoT
3. Energy monitoring using LORAWAN based smart meters and MQTT protocol with integrated IoT
4. Navigation control of mobile robot using path planning algorithm

ii) Projects funded

1. A student project titled "**Floating Ocean Wave Energy Converter**", funded under the TEQIP Seed Money Project in 2015, was successfully granted **a patent in 2022** (Patent No. **398426**).

Publications:

i) Journal

1. Roshith K and C K Smitha , “Vehicle Event Data Recorder and Driver Review System (VEDRAR) Using Machine Learning” International Journal of Innovative Research in Technology (JIRT)- an UGC approved journal, Volume: 12, Page No: 81-85, July 2025, ISSN online 2349-6002,
2. C. K. Smitha and Roshith K, Ragi R G,N K Narayanan,” Propagation of Action Potential in Neuron- A new approach with magnetic effect of Current”, International Journal of Electrical Engineering and Technology (IJEET) Volume 12, Issue 2, pp. 100-113, February 2021, ISSN Online: 0976-6553, DOI: 10.34218/IJEET.12.2.2021.010.

Training Programmes Organised

1. FDP on Future Proofing Research using AI Tools conducted by CE Vadakara from 24th 29th of June 2025 (6 Days)
2. Faculty Development Program (FDP) in Intelligent Systems (IS) from 21/310/2013 to 25/10/2013
3. Faculty Development Program (FDP) in Integral Education Parivarthan in 2013
4. Faculty Development Program (FDP) in LABVIEW on 14/02/2014 to 15/02/2014

Training Programmes Attended:

1. FDP on Future Proofing Research using AI Tools conducted by CE Vadakara from 24th 29th of June 2025 (6 Days)
2. FDP on Computational Mathematics & AI conducted by IIIT Kottayam on 28/6/2024 & 29/6/2024 (2 Days)
3. e-Yantra Symposium 2023 at IIT Bombay on 5th & 6th April 2023 (2 Days)
4. Applications of AI and ML in Signal Processing and Communications, by E&ICT Academy NIT Warangal and GITAM School of Technology from 23rd to 30th June 2022.
5. FDP on Joy of Teaching in CE Vadakara 18/12/2021 20.12.2021 (3 Days)
6. 2 Day workshop on introduction to robotics by e yantra initiative by IIT Bombay conducted at NIT Suratkal, Karnataka on 14th and 15th of Feb 2020 (2 Days)
7. FDP on Research and Application Perspectives of Artificial Intelligence and Machine Learning conducted by MES College of Engineering Kuttippuram, from 8th to 12th July 2019 (5 Days)
8. Faculty development program on Managerial excellence at IIM Calcutta from 2nd Mar to 4th Mar 2017 (3 days)
9. Faculty development program on Leading with Emotional Intelligence at Administrative staff College of India, Hyderabad from 24th to 28th Oct 2016 (5 days)
10. Faculty development program in Pedagogy by teaching learning center IIT Madras from 28th to 30th July 2016 (3 days)
11. Faculty development program on Intelligent Systems’ 2013 from 21st to 25th Oct’13 at CE Vadakara. (5 days).
12. Faculty development program at CE Vadakara from 3rd to 7th Dec 2012 (5 days).

Professional Body Memberships:

- Member of IEEE bearing Member No : 96292070
- Free Software Foundation