

Somesh Nandi

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 Objective

Aspiring to foster innovation through teaching and research in Electronics and Communication Engineering in a research-driven environment.

 Education

Degree	Specialization	Institution	University	Year	Grade
Ph.D.	Electronics and Communication	Indian Institute of Science (IISc), VTU	VTU	2024	Awarded
M.Tech	Intelligent Systems	PES Institute of Technology, Bangalore	VTU	2016	74% (2nd Rank VTU)
B.E.	Electronics and Communication	Basaveshwar Engineering College, Bagalkot	VTU	2014	8.9 CGPA (Distinction)

Achievements:

- Qualified Karnataka State Eligibility Test (KSET) for Assistant Professor – 2020

 Professional Experience

Assistant Professor (Department of CSE – AIML)

RV College of Engineering, Bangalore | Feb 2022 – Present

- Deliver courses in AI, ML, Optical Communication with advanced pedagogy.
- Departmental lead for IET, NAAC, and Test Accreditation activities.

Scientific Officer

RV College of Engineering, Bangalore | Nov 2018 – Jan 2022

- Led ₹35 Lakhs worth IoT projects under Cisco-RVCE CoE.
- Implemented Smart Lighting Systems campus-wide.
- Managed over 100 Webex licenses across 26 institutions.

Assistant Professor (ECE)

PES University, Bangalore | Aug 2016 – Nov 2018

- Taught core electronics subjects including Basic Electronics, Optical Fiber Communication, and Control Systems.

Intern (Avionics)

National Aerospace Laboratories, Bangalore | July 2015 – June 2016

- Project: "State Estimation for Autopilot Control of Micro Aerial Vehicles."
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Research Experience

- Ph.D. in Integrated Photonics and Optical Sensors (VTU/IISc).
 - Specialization: Fiber Bragg Grating Sensors, Optical Waveguides, Smart Sensing Systems.
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Publications

- **13+ International Conference Papers (IEEE, Springer)**
- **SCI/Scopus Indexed Journals:** *Journal of Optics, Optoelectronics Letters, Semiconductor Optoelectronics.*

Highlights:

- ✨ Measurement Model of Integrated FBG Sensor for Beam Structure (Journal of Optics, Q2)
- ✨ FBG-Based Optical Sensors for Pressure and Temperature (Optoelectronics Letters -Q2)
- ✨ IoT Enabled Structural Health Monitoring Using FBG Sensors (Springer)

(Full publication list - <https://scholar.google.com/citations?user=f-jEuAUAAAJ&hl=en>)



Book Chapters

- "Analysis of FBG Spectral Characteristics using Coupled Mode Theory" — *Springer*
- "Study on Fiber Bragg Gratings and Recent Applications" — *Springer*

Achievements & Awards

- 2nd Rank – M.Tech (VTU)
- Prof. C.N.R. Rao Merit Scholarship & Prof. M.R. Doreswamy Scholarship
- Best Outgoing Student (Higher Secondary)
- Secretary, IEEE Photonics Society Bangalore Chapter (2020–2024)

Professional Memberships

- Member, IEEE (ID: 94114912)
- Secretary, IEEE Photonics Society, Bangalore Chapter

Courses Completed

- "Learning to Teach Online" — University of New South Wales (Coursera)

Faculty Development & Leadership

- FDPs attended at IIT Madras and premier institutes.
- Organized 7 FDPs and 40+ Expert Talks during COVID-19.

Technical & Administrative Skills

- Cisco-RVCE Center of Excellence Project Management
- Accreditation Coordination (IET, NAAC, UGC)
- Department Test and Bootstrap Program Coordination

Areas of Interest

- **Teaching:** Basic Electronics, Optical Fiber Communication, Control Systems
- **Research:** Integrated Photonics, Waveguide Bragg Gratings, Optical Sensors

Permanent Address

Somesh Nandi, Shivabasava Vidyanagar, College Road, Muddebihal – 586212, District:
Vijapur, Karnataka
