

RNS Institute of Technology, Channasandra, Bangalore-560098
ECE Dept | RESUME - Faculty

Name	SANJAY M. BELGAONKAR		
Date of Birth	06 Dec 1987		
Address	Assistant Professor, Department of ECE, RNSIT, Bengaluru – 560 098. E-mail: sanjaymb@rnsit.ac.in prof.sanjaymb@gmail.com		
Subject / Discipline/ Major	Electronics and Communication Engineering / Signal Processing		
Educational Qualifications	Exam Passed	Institution University	Year
	B.E (ECE)	Visvesvaraya Technological University, Belagavi	2009
	M.Tech (Digital Electronics & Communication)	Visvesvaraya Technological University, Belagavi	2012
	Ph.D. – Pursuing	Visvesvaraya Technological University, Belagavi	-
Experience	Nature of Experience	No. of Years	
	Teaching	11	
	Industry/Research	01	
	Total No. of years of Experience	12	
Certification Courses	<ul style="list-style-type: none"> Fundamentals of Digital Image and Video Processing on Coursera offered by Northwestern University, Chicago, USA. Image Processing with Python offered by Coursera Project Network. Python for Beginners: Learn Python Programming from Udemy. Digital Signal Processing (DSP) from Ground Up in Python from Udemy. 5G for Absolute Beginners from Udemy. 5G Mobile Networks: Modern Wireless Communication from Udemy. 		
Experience Details	Designation	Institution/ Organization	Duration
	Assistant Professor	R N S Institute of Technology, Bengaluru	July 2015 – Till Date
	Assistant Professor	A P S College of Engineering, Bengaluru	July 2012 – July 2015
	Project Associate	GILL Instruments Pvt. Ltd., Electronic City, Bengaluru	June 2011 – June 2012
	Teaching Assistant	A M C Engineering College, Bengaluru	Oct. 2010 – June 2011
	Lecturer	A M C Engineering College, Bengaluru	July 2009 – Sept. 2010
Professional bodies Membership details	Member IEEE – 95178155 Member IEEE – Signal Processing Society Member – IEEE Young Professional Society		
Other Professional Experiences	Nil		
Areas of Research Interest & Guidance	Signal Processing, Communication Systems, Antenna Design & Analysis		
National/ International Work Shops/	<p style="text-align: center;"><u>Workshops / FDPs</u></p> <ul style="list-style-type: none"> Participated & Completed Successfully AICTE Training & Learning Academy (ATAL) Online Elementary FDP on “Recent Trends in the World of Photonics” from 26 to 30 July 2021 organized by Dept. of ECE, RNSIT, Bangalore. 		

Seminars / Conferences Attended

- Participated in **IEEE Virtual Tech Talk: Academic Research in International Standardization** on 14 June 2021 organized by IEEE, New York, USA.
- Participated in the expert talk on **“Sensing and Signal Processing for Autonomous Navigation”** organized by IEEE Signal Processing Society, Gujarat Section held on 13th March 2021.
- Participated & Completed Successfully AICTE Training & Learning Academy (ATAL) online FDP on **“Computer Vision and Pattern Recognition: Challenges and Opportunities”** from 21 to 25 Sept. 2020 organized by SJCE, Mysore.
- Completed 5 days FDP on **“DSP Techniques using MATLAB”** organized by **AGIMUS ACADEMY, Bangalore** during 14th to 18th Sept. 2020.
- Attended the workshop on **“Advanced Communication Systems”** organized by Dept. of ECE, RVCE IEEE ComSoc Student Branch Chapter & IEEE Bangalore Section during 17th – 28th Aug 2020.
- Participated in the Six days FDP (Online) on **“Optimization Techniques for Machine Learning”** organized by Dept. of ECE, SJBIT, Bangalore from 10th to 15th Aug 2020.
- Participated in the **2020 International Conference on Signal Processing and Communications (SPCOM)** held virtually during July 19 – 24, 2020 organized by Indian Institute of Science (IISc) Bangalore.
- Participated in one-week online FDP on **“NBA and NAAC Accreditation Process”** organized by M S Ramaiah Institute of Technology under AICTE Margadarshan Scheme from 4th to 8th June 2020.
- Participated in **3 – day FDP on “Machine Learning and Deep Learning using Python”** organized by Dept. of ECE, RNSIT during Jan 30, 31 & Feb 01, 2020.
- Participated and successfully completed **One Week AICTE – VTU Joint Training Programme for Teachers** on **“An Overview of Teaching Techniques in Engineering Statistics & Linear Algebra”** from 6th to 10th Jan 2020 organized by VTU Human Resource Development Centre (VTU – HRDC), Centre for PG Studies, Muddenahalli, Chikkaballapur (Dist.) – 562101.
- Participated in Five days National level faculty Development Program on **“Engineering Statistics and Linear Algebra”** organized by the Dept. of ECE, BMSIT & M from 31st Dec 2019 to 4th Jan 2020.
- Attended TEQIP – 1.3 Sponsored Workshop on **“Research Methodology”** for **Two weeks from 15th to 24th July, 2019** organized by **VTU, Belagavi in Association with Aryabhata Knowledge University Patna, Bihar and Biju Patnaik University of technology Rourkela, Orissa.**
- Participated in the MATLAB Projects on **5G Technologies – Massive MIMO, Millimeter (mm) Wave MIMO, NOMA, Full Duplex (FD), OFDM / FBMC and NB – IoT** Organized by **Dept. of Electrical Engg., IIT Kanpur** during 8th to 14th July 2019.
- Attended the Short Course on **5G Technologies – Massive MIMO, Millimeter (mm) Wave MIMO, NOMA, Full Duplex (FD), OFDM / FBMC and NB – IoT** Organized by **Dept. of Electrical Engg., IIT Kanpur** during 8th to 14th July 2019.
- Participated in the **48th ISTE National Annual Faculty Convention** held at **VTU, Belagavi** on 19th & 20th March 2019.
- Successfully completed **8 Weeks** course **Introduction to Research** on NPTEL – AICTE offered by IIT Madras during Aug – Sept 2018.
- Participated in the Pre-Conference Expert Lecture Series held on 18th July 2018 as a part of the **1st International Conference on Photonics, Signal Processing and Communication Technologies (ICPSPCT) – 2018** at Ramaiah University of Applied Sciences – Bangalore, India in association with Springer.
- Participated in the FDP on **“Python Programming and Applications”** organized by Dept. of ECE, RNSIT during June 18 – 20, 2018.
- Participated in **IEEE Sponsored 3 – day Workshop on Computer Networks Laboratory using NS3, NCTUNS and C / C++** during Jan 23 – 25, 2018 organized by Dept. of ECE, RNSIT.
- One Week Short Term Training Program on **“Artificial Intelligence and Medical Image Processing”** organized by Dept. of ECE & Biomedical Engg., KLE Dr. MSS College of Engineering & Technology, Belagavi from 16th to 21st Jan 2018.
- Participated in Two – day FDP on **“Special Topics in Optics and Photonics”** organized by Dept. of ECE, RNSIT during Jan 27 – 28, 2017.
- Participated in Four days Symposium on **“Linear Algebra and its Applications in Computer Vision”** organized by JSS Academy of Technical Education, Bengaluru from 13 – 16 July, 2016.
- Participated in the ISTE Sponsored FDP on **“NS-3 and its Advanced Usage”** organized by the Dept. of ECE, RNSIT from June 27 – July 1, 2016.
- Participated in the Faculty Development Program on **Antenna Design & GPR Applications using PAM – CEM** held at Dept. of ECE, RNSIT on June 21 – 22, 2016.
- Workshop on **“DSP from Concepts to Applications”**, held at M S Ramaiah Institute of

Technology, Bengaluru on 27th September, 2015.

- Participated in **Scilab India Conference 2014**, organized by FOSSEE, IIT Bombay, 3rd & 4th December, 2014.
- One day workshop on **“Interfacing Scilab with Arduino”** held at **Scilab India Conference 2014**, organized by FOSSEE, IIT Bombay, 3rd December, 2014.
- One day workshop on **“Electromagnetic Field Theory & Applications”** conducted by The Institution of Electronics and Telecommunication Engineers (IETE), Bengaluru Centre on 19th October, 2014.
- Two days Faculty Development Program on **“Antenna Design and Simulation” using EM Simulation tool, FEKO** conducted by Dept. of TCE & ECE, Dayananda Sagar College of Engineering, Bengaluru in association with VTU, Belagavi on September 29th & 30th, 2014.
- **“Embedded System Design using MSP430”** organized by TIFAC – Centre, VIT University, Vellore, Tamil Nadu on 16th & 17th February, 2014.
- **“Two-week ISTE main workshop on Signals & Systems”** conducted by IIT, Kharagpur from 2nd January, 2014 to 12th January, 2014.
- **“MATLAB & Simulink for Engineering Education”** organized by MathWorks India Pvt. Ltd. at Hubli on 20th June, 2013.
- **“MATLAB Tools and Applications”** jointly organized by Dept. of ECE and Dept. of TCE, K S Institute of Technology, Kanakapura Road, Bengaluru from 28th February, 2013 to 2nd March, 2013.
- **“Current Trends in Signal Processing”** organized by School of Engineering & Technology, Jain University on 26 – 27 Aug 2011.
- **“Applications Development on DSP Platforms”** organized by M.S.Ramaiah School of Advanced Studies from 21 – 23 July 2011.
- **“Image Processing Workshop”** jointly organized by the Dept. of ECE, CMRIT and Vision Group On Science & Technology, Dept. of IT, BT & ST, Govt. of Karnataka on 28 – 29 Jan 2011.
- **“Emerging Trends and Technologies in RF Design”** organized by Dept. of ECE, AMCEC from 17 – 19 Jan 2011.

Conference / Journal Publications

- Pooja D, Rashmi S, Sukanya S, Sanjay M Belgaonkar, **“FPGA Based Mitigation of Noise from Images using a Combination of Adaptive Fuzzy Filter and Median Filter”**, National Conference on VLSI, Communication & Computer Networks held at AMC Engineering College, Bengaluru on 3rd May, 2013.
- Sanjay Belgaonkar, E. Elavarasi, Gurjeet Singh, **“Smart Lighting and Control using MSP430 & Power Line Communication”**, International Journal of Computational Engineering Research (IJCER) / ISSN: 2250 – 3005 / May – June 2012 / Vol. 2 / Issue No. 3 / Pg. 662 – 666.
- Sanjay M Belgaonkar, E. Elavarasi, **“Design and Development of Smart Lighting Module using MSP430 Microcontroller”**, International Conference on Evolutionary Trends in Information Technology held at VTU, Belagavi on 5th – 6th October, 2012.
- Padmashree S, Sanjay Belgaonkar, Puneeth Kumar, **“Global Mobility in IP Networks using Mobile Internet Protocol”** presented in the National Conference on “Soft Computing and Intelligent Networks” conducted by Dept. of CSE, AMCEC, Bengaluru – April 2011.

Books

- **Principles of Communication Systems**, Narendra Kumar, Sanjay M. Belgaonkar, G Praveen, Excellent Engineer Publications, First Edition, Feb 2018, ISBN: 9788193193532

Patents

- Patent filed on **“Hand – held UV light Sanitizer”** App. No. **TEMP/E-1/30406/2021 – DEL.**
- Patent filed on **“Load Balancing Delivery Box for Motorcycles”** App. No. **TEMP/E-1/33293/2021 – DEL.**
- Patent filed on **“Foot Operated Hand Sanitizer Dispenser”** App. No. **TEMP/E-1/36522/2021 – CHE.**