

Dr. K.G. AVINASH
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Dept. of E&CE
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Work Experience: 20 years

- Currently working as an *Associate Professor* in the Dept. of E&CE, Bapuji Institute of Engineering and Technology, from July 2019 to till date.
- Worked as an *Assistant Professor* in the Dept. of E&CE, Bapuji Institute of Engineering and Technology, from September 2012 to June 2018.
- Worked as a *Lecturer* in the Dept. of E&CE, Bapuji Institute of Engineering and Technology, from September 2003 to August 2012.

Research Experience: 3 Years 9 Months

- Worked as a *Full-Time Research Scholar* in the School of Electronics Engineering, VIT University, Vellore from August 2013 to May 2017.

Industry Experience: 8 Months

- Worked as *Project Trainee* in Centre for Development of Advanced Computing- CDAC, Bangalore, Karnataka, from October 2002 to May 2003.

Educational Qualification:

- Ph.D. in School of Electronics Engineering from VIT University, Vellore, 2017
Field of Research: Microwave Engineering.
- M.Tech. [Communication Systems] from PDACET, Gulbarga, Visvesvaraya Technological University (VTU), 2004 with First Class.
- B.E. [E&C] from Bapuji Institute of Engineering and Technology, Kuvempu University, 2000 with First Class.

Memberships:

- Member of Institute of Electrical and Electronics Engineering (IEEE97521408)
- Life Member of Indian Society of Technical Education (ISTE-LM-43417).
- Life Member of Institution of Electronics & Telecommunication Engineers (IETE- M219039).
- Life Member of Institution of Engineers (IE-

Peer Reviewed Publications:

Journals:

1. Avinash. K.G. and Srinivasa Rao I., 2017. Highly Selective Dual-Mode Microstrip Bandpass Filters Using Triangular Patch Resonators. *Advanced Electromagnetics*, 6(1), pp. 77-84.
2. Avinash. K.G. and Srinivasa Rao I., 2017. Compact Dual-Mode Microstrip Bandpass Filters With Transmission Zeros Using Modified Star Shaped Resonator. *Progress in Electromagnetics Research C*, 71, pp.177-187.
3. Avinash. K.G. and Srinivasa Rao I., 2017. Compact Dual-Band Bandpass Filter Based On Dual-Mode Modified Star Shaped Resonator. *Microwave and Optical Technology Letters*, 59(3), pp.505-511.

International Conferences:

1. Avinash, K.G. and Srinivasa Rao, I. (2015), Design of Bandpass Filter Using Star Loop Dual Mode Resonator, in 'IEEE International Conference on Communication and Signal Processing- ICCSP'15', pp.0238-0241.
2. Avinash, K.G. and Srinivasa Rao, I. (2015), Design of Microstrip Meandered Dual Mode Wideband Bandpass Filter using Quarter Wavelength Stubs, in '5th IEEE International Conference on Advances in Computing and Communications- ICACC'15,pp.307-310.
3. Avinash, K.G. and Srinivasa Rao, I. (2015), Design of Microstrip Narrowband Bandpass Filter Using a Star Shaped Defected Ground Structure, in 'IEEE International Conference on Applied and Theoretical Computing and Communication Technology-ICATCCT'2015',pp.92-94.
4. Avinash, K.G. and Srinivasa Rao, I. (2015), Design of Compact Meandered Dual Mode Wideband Bandpass Filter using Tuning Stubs', in 'IEEE II International Conference on Microwaves and Photonics- ICMAP'15,pp.1-2.
5. Avinash, K.G. and Srinivasa Rao, I. (2015), Design of Microstrip Wideband Bandpass Filter using U Shaped Defected Ground Structure', in 'IEEE International Conference on Microwave, Optical and Communication Engineering- ICMOCE'15,pp.103-105.

Dissertation Details:

- **Ph.D.: “Compact Single And Dual-Band Microstrip Bandpass Filters With Transmission Zero’s Using Dual-Mode And DGS Resonators”**
- **M.Tech.: “TCP Enhancements For High Speed Grid Access”**

Research Interests:

- **Microwave Engineering : Design of Microwave Passive Components and Antennas**

Awards/Distinctions:

- **Awarded as a best teacher for 03 times from the college for achieving 100% result in the subjects handled.**
- **Presently guiding two VTU Research scholars in Electronics and Communication Engineering Research Center.**

Seminars/Workshops/Events Organized:

- **Coordinated Two Day Faculty Development Program on “LabVIEW” and its Applications” conducted on August 2nd& 3rd, 2012 in the department of E&CE, BIET, Davangere.**
- **Coordinated National Conference on “Recent Advances in Electronics and Communication Engineering” NCRAECE-17 conducted on 13th October 2017 in the department of E&CE, BIET, Davangere.**

Expert Lectures Delivered:

- **Worked as a guest faculty for teaching Basic Electronics for BCA students at Bapuji Hi-tech Education College, Davangere.**
- **Delivered a technical talk on “Radar Systems” at Bapuji Polytechnic College, Davangere on 05-02-2018.**
- **Delivered an Invited Lecture on Introduction to Wireless Communication Systems for 5th Semester E&CE students of Bapuji Polytechnic, Shabnur, Davangere, on 26th September 2019.**
- **Worked as Faculty Counsellor of IGNOU BIET CHAPTER.**

Academic Activities:

1. Participated as a Judge for the Ideathon Even of NAIN Centre, BIET, Davangere to select potential projects in college before submitting to steering committee (Government of Karnataka) on 17th January 2019 from 9 AM – 5 PM.
2. Participated as a Judge for Open House Project Exhibition – PROGYAN-1.0-2019, for final year student projects held on 20th and 21st May 2019 held at CS&E department, BIET, Davangere.
3. Participated as a Chairman for the Oral Presentation session of A National Level Student's Symposium- CHEMEXCEL-2K19 on 24th October 2019.
4. Participated as a Judge for the event on Paper Presentation of INSYNC Forum, IS&E Dept., BIET, on

STTP/Summer/Winter Schools:

- Participated and completed successfully one week FDP on “Mastering IoT: Hands-on Training for Sensor Integration, Devices and Cloud Services from 04-12-2023 to 09-12-2023 organized by department of Electronics & Communication Engineering of BIET, Davanagere in association with Eaktech Private limited, Bengaluru.
- Participated in the FDP “Google Analytics and Tools for Data Visualization” held from 2th July 2023 to 1st August 2023 organized by the Department of Computer Science and Engineering, BIET, in association with IQAC, ISTE and IEI
- Attended one week Faculty Development Program on “Embarking on Open Source Software in an Engineering & Research Journey” from 19th -24th April 2022, organized by Dept. of E&CE, BIET, Davangere.
- Attended one week AICTE-ISTE sponsored Refresher Program on “Design Thinking” held during 07th March to 12th March 2022, organized by VTU e-learning center, Mysuru and Vidyavardhaka College of Engineering, Mysuru.
- Attended the workshop on “Advanced Communication Systems” organized by Dept. of ECE, RVCE, IEEE ComSoc Student branch chapter, IEEE APS Student branch chapter, RVCE and IEEE Bangalore Section during 17th – 28th August 2020
- Participated in the AICTE Sponsored One Week Online Short Term Training Program (STTP-II) On “Electromagnetics, Microwave, RF & Antenna Design Using Ansys HFSS” Organized by Department of Electronics & Communication Engineering, During 24th – 29th August 2020.
- Participated in the 5 day online workshop on Advanced Design in RF held on 16th November to 20th November organized by IEEE HMRITM Student Branch
- Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on "Smart Cities" from 7th December to 11th December 2020 at Lendi institute of Engineering and Technology.
- Attended the one week online FDP on RF Technology for Energy Harvesting, Medical, and Commercial Applications (RFTEMC 2020) organized by Department of Electronics and Communication Engineering, Sreyas Institute of Engineering and Technology, Hyderabad, from 14th December to 18th December 2020.
- Participated in Faculty Development Program on “OBE and its Impact on Accreditation Process” during 06th -10th July 2020 under AICTE sponsored Share & Mentor Institutions (Margdarshan) scheme of RV College of Engineering.
- Completed Five-day International online Faculty Development Program on Advancement in Communication Engineering Technologies with Simulation Tools organized during the period 1st July to 5th July 2020, by Dept. of Electronics and Communication Engineering, Vishnu Institute of Technology, Bhimavaram,

Andhra Pradesh.

- **Completed Two Week Online Faculty Development Program on PYTHON organized during 22nd June – 5th July 2020.**
- **Participated in FDP on Recent trends in Computer Architecture, VLSI and Embedded Systems (RCAVES-2020) from 08th to 13th June 2020, organized by Department of Electronics and Communication Engineering, GRIET, Kukatpally, Hyderabad.**
- **Participated in Five day Faculty Development Program on “Data Science and Big Data Analytics” held at BIET, Davangere from 21st January to 25th January 2019.**
- **Two weeks training program on “Intellectual Property Rights for PICs and IPCU’s”, 23rd April to May, 2018, SSN College of Engineering, Perundurai, Chennai.**
- **Short term course on “Metamaterials and Applications”, 14th -20th December 2017, IITKharagpur.**
- **Short term course on “Analysis and Implementation of Dielectric Resonator Antennas”, 21st – 26th November, 2016, IIT, Kharagpur.**
- **AICTE Sponsored STTP Course on “Biomedical Systems, Signals & Images”, 21st-25thNov 2011, IITM,Chennai.**
- **TEQIP sponsored workshop on “Signals, Systems & Wavelets”, 21st-26th Jan 2006, SJCE, Mysore.**

Seminar/ Workshops Attended:

- Participated in the two day “Awareness Workshop NIRF India Rankings- 2021 for Higher Educational Institutions held on-line on 18th and 19th January 2021 by Institute for Academic Excellence in collaboration with Collegiate Education and Technical Education Department, Govt. of Telangana.
- Attended one day workshop on “Arduino” held at University B.D.T. College of Engineering, organized by the Teaching Learning Center, ICT, on 8th Feb., 2019.
- Participated in One Day Workshop on eSim, a First Course in the IOT Series for Teachers held at Bapuji Institute of Engineering and Technology, Davangere, on 21st September 2019, organized by the Teaching Learning Centre, ICT at IIT Bombay.
- Attended one day workshop on “R Programming” held at University B.D.T. College of Engineering, organized by the Teaching Learning Center, ICT, on 17th Dec., 2019.
- Attended one day workshop on “Assistive Health Technology and Role of Engineers” held at BIET, Davangere on 06th November 2019.
- Attended one day workshop on “eSim”, a first course in the IOT series for teacher’s held at BIET on 21st September 2019
- Participated in the tutorial session on “Design of Antennas for Modern Communication Systems” in ICCNASP-2013, International Conference on Communications, Networking and Signal Processing held on 19th September 2013.
- Attended one day workshop on LTE Multi Antenna Techniques using MATLAB on 9th March 2013 at VIT University, Vellore.
- Underwent a “Feel Teacher” Learning and Development Intervention conducted from 19th – 21st April 2013, at BIET, Davangere.
- Three days Workshop on “Advances in RF and Wireless Technologies” held at M.S. Ramaiah Institute of Technology, Bengaluru on 18th to 20th March 2013.
- Attended “Ramanujan Mathematics Awareness Program” held on 1st March 2013 at Bapuji Institute of Engineering & Technology, Davangere.
- Attended Two day Faculty Development Program on “LabVIEW and its Applications”, 2nd to 3rd August 2012.
- Two days FDP on “Low Power Embedded Systems Using Texas Instruments MSP430 Microcontroller”, 9-10, February 2012, BIET, Davangere.
- MOES sponsored seminar on “Wavelets for Earth Fractals Computation-Research Focus”, 5th-7th Jan 2012, Kongu Engineering College, Perundurai, Erode.
- Participated in the 3rd International Conference on “Cognition & Recognition” - ICCR-2011, 9th-10th Dec 2011, Manasagangotri, Mysore.
- Participated in the Three day National Level workshop on “Signal & Image Processing”, 28th -30th July 2011, Reva ITM, Bangalore.
- Mathematics & Its Applications in Engineering, 18th Feb 2010, BIET, Davangere.
- Participated one day seminar on “Recent Trends in Nanotechnology” held on 20th September 2008, BIET, Davangere.
- Two day workshop on “Entrepreneurship & Management during 1st & 2nd August 2008
- One day workshop on “Mathematical Applications in Engineering Systems-2007” on 27th October 2007 held at BIET, Davangere.
- Industrial Automation, 4th Oct 2007, BIET, Davangere.
- TEQIP sponsored state level workshop on “Digital Image Processing & Computer Vision”, 4th -5th May 2007, MCE, Hassan.
- Embedded System Design, 27th April 2007, BIET, Davangere.
- Tanner Tools –Pro, 16th Nov 2006, BIET, Davangere.

- ISTE 35th Annual Convention, Disaster prediction, Prevention & Mgmt., 15th-17th Dec 2004, BIET, Davangere.
- Recent advances in Power Electronics, 9th-10th Dec 2005, SSIT, Tumkur.

Guided UG projects entitled

- Text Dependent Voice Recognition System(2006-07)
- Active Kiosk with Speech (2007-08)
- GSM Based Luggage Security System(2008-09)
- Real Time Monitoring & Control of Remote Systems Using Zigbee based WSN's(2010-2011)
- Automatic Solar Grass Cutter (2018-19)
- Automatic Solar Tracking and Cleaning System (2019-20)

Above projects were funded and selected by Karnataka State Council for Science & Technology, (KSCST) Bangalore.

Webinars Attended:

- Participated in webinar on Assistive Technology for Empowerment of Persons with Disability conducted on 11th December 2020 in association with Composite Regional Centre (CRC) For Skill Development, Rehabilitation & Empowerment of Persons with Disabilities (Under Administrative Control of National Institute for the Empowerment of Persons with Intellectual Disabilities, Secunderabad), Department of Empowerment of Persons with Disabilities (Divyangjan) & Ministry of Social Justice & Empowerment, Government of India.
- Participated online webinar entitled “REMOTE LAB PLATFORM FOR HARDWARE CIRCUIT EXPERIMENTS” held on 10/11/2020 organized by the Department of Electronics and Communication Engineering in association with Institution of Engineers (India), Davangere Local center, Davangere.
- Participated in Webinar and Quiz on the eve of World Environment Day-2020 on 5th June 2020, held at Bapuji Institute of Engineering and Technology, Davangere, on 5th June 2020.
- Participated in Art and Challenges of Writing Papers for IEEE Transactions as a part of IEEE Bangalore Webinar – Learning Series organized by IEEE Bangalore Section on 08th June 2020.
- Participated in National Level Webinar on Simulation Driven Innovation for e-Mobility, on 9th June 2020, organized by Altair India.
- Participated in Defect Assisted Atomic Orbital Overlap Engineering in 2D Materials Resulting in High Performance Transistors as a part of IEEE Bangalore Webinar – Learning Series organized by IEEE Bangalore Section on 11th June 2020.
- Participated in the webinar on Non Liner Physics jointly organized by SSN-Centre for Radiation, Environmental Science & Technology (SSN-CREST) and Indian Spectrophysics Association, on 12th June 2020.
- Actively participated in the webinar on A Real Time Audio System Design for Commercial Market presented by Mr. S.V. Sreeraj, Director, EmCog Solutions, Chennai, on 13th June 2020, organized by Dept. of Electronics and Communication

Engineering, Amrita College of Engineering & Technology, Nagercoil-629901, Tamil Nadu.

- **Actively participated in the webinar on RF Domain Using Ansys HFSS presented by Mr. R. Shashi Kumar, Application Engineer, Entuple Technologies Pvt. Ltd., Bangalore, on 13th June 2020 organized by Dept. of Electronics and Communication Engineering, Amrita College of Engineering & Technology, Nagercoil-629901, Tamil Nadu.**
- **Successfully completed National Level Quiz on NBA on 15th June 2016 organized by the dept. of Computer Engineering, P.V.P.P College of Engineering, Mumbai-22.**
- **Successfully completed National Level Quiz on NACC on 15th June 2016 organized by the dept. of Computer Engineering, P.V.P.P College of Engineering, Mumbai-22.**
- **Participated in National Level Online Quiz on Medical Electronics organized by Dept. of Electronics and Communication Engineering, Bapuji Polytechnic College, Shabanur, Davangere, on 17th June 2020.**
- **Participated in Webinar and Quiz on the eve of International Yoga Day-2020 on 21st June 2020 held at Bapuji Institute of Engineering and Technology, Davangere.**
- **Participated in the event International Day of Yoga conducted by Heartfulness Institute on 21st June 2020.**
- **Completed online quiz on VLSI organized by Dept. of Electronics and Communication Engineering, Jain Institute of Technology, Davangere, on 23rd June 2020.**
- **Completed online quiz on Electronic Circuits and Digital Electronics organized by Dept. of Electronics and Communication Engineering, Jain Institute of Technology, Davangere, on 23rd June 2020.**
- **Participated in National Level Online Quiz on Digital Communication organized by Dept. of Electronics and Communication Engineering, S. J. M Institute of Technology on 02nd July 2020.**

Invited Lectures Organized:

- **Invited Dr. D. S. Guru, DOS in Computer Science, University of Mysore, to deliver talk on “Image Processing & its Applications” on 27th April2012.**
- **Invited Dr. C. B. Suresh, Prof. in Mechanical Engineering, BIET, Davangere, to deliver talk on “Total Quality Management” on 27th February2008.**
- **Invited Dr. Rajeshwari Banakar, Prof. & Head, Dept. of E&CE, BVBCCE, Hubli, to deliver talk on “Introduction to VLSI Technology” on 5th September2007.**
- **Invited Sri. Rajashekar T, Assistant Manager, Sapiient Corporation, Bangalore to deliver talk on “How students should face the Industry” on 30th March2007.**
- **Invited Sri. MahantShetti, Managing Director, Karmic Design Centre Pvt. Ltd., Manipal to deliver talk on “Challenging Issues in VLSI” on 18th September2006.**
- **Invited Sri Vishnumurthy Bhat, General Manager, BSNL-Davangere-Chitradurga Division to deliver talk on “Developments in Telecom Sector” on 9th June2006.**
- **Invited Dr. K. Ravindra, Prof. in JJMC, Davangere, to deliver talk on “World AIDS Day” on 16th December2005.**
- **Invited Prof. Y. Vrushabhendrappa, Principal, BIET, Davangere, to deliver talk on “Professional Ethics” on 6th October2005.**
- **Invited Dr. T. Srinivas, Prof. in IISC, Bangalore, to deliver talk on “Optical Communication” on 30th October2004.**
- **Invited Prof. S. K. Venkata Ram, Principal, SVPP, Belgaum, to deliver talk on “Teaching Learning Process” on 21th April2004.**