



LINGARAJ APPA ENGINEERING COLLEGE , BIDAR

Approved by AICTE, Recognized by Govt. of Karnataka

FACULTY PROFILE

1. Name in Full: Dr. Basavalinga Swamy Hiremath



2. Contact Number: 9738333094

3. Email ID: basavalingaswamy2020@gmail.com, basushastri22@gmail.com

4. Date of Birth: 21/08/1987

5. Address for communication: Electronics and Communication Engineering Dept, Lingaraj Appa Engineering College, Bidar. Karnataka, 585403.

6. Educational Qualifications:

Sl.NO	Degree	University/Institution	Year	Specialization
1	Ph.D	VTU,Belgavi	2023	Microwave Antennas
2	M.Tech	VTU,Belgavi	2012	VLSI Design and Embedded System
3	B.E	VTU,Belgavi	2009	Electronics and Communication Engineering

7. Details of Employment:

Sl.NO	Name of the Institution	Period		Designation
		From	To	
1	Lingaraj Appa Engineering College, Bidar	01/02/2013	Till Date	Associate Professor
Total Experience in years				12 years

8. Date of service in this Institution: 01/02/2013

9. Total Experience in years: 12.8 years

10. Subjects of Interest: Analog Circuits, Electronic Devices, Verilog HDL, VLSI design, Power Electronics, Antennas and Wave Propagation

11. Publications in National and International Journals & Conferences:

Journal Papers

Basavalinga Swamy Dr.kishan singh, Dr.C M Tavade, (2014). "A Novel Design and Development of Multi Band Corner Truncated square Microstrip Antenna." International Journal of Emerging Technologies (IJET), (ISSN No.Print:0975-8364, Online: 2249-3255).

Basavalinga Swamy (JULY-2016). "Reconfigurable OFDM Based Transceiver For Wireless Communication." IOSR Journal OF Electronics and Communication Engineering Vol. 11, Issue4,ver-3, pp. 55-64.

Basavalinga Swamy (2016). "Optimization of Power and Area Efficient Shift Register Using Pulsed Latch" International of Journal & Magazine Of Engineering Technology, Management and Research, (ISSN No.Print:2320-3706, Online: 2348.-4845).

Basavalinga Swamy (2016). "An Optimized R-TCAM Array Design Based On Reversible Elements" International of Journal & Magazine Of Engineering Technology, Management and Research, (ISSN No.Print:2320-3706, Online: 2348.-4845).

Basavalinga Swamy (2017). "A Smart Home Automation Device Control Using Bluetooth and Android Phone." International of Innovative Research In Computer AND Communication Engineering, (IJRCCE) (ISSN No.Print:2320-9798, Online: 2320.-9801).

Basavalinga Swamy (2017). "Solar Power Tracking Stem and Power Saving in Highway Street Light" International of Innovative Research In Computer AND Communication Engineering, (IJRCCE) (ISSN No.Print:2320-9798, Online: 2320.-9801).

Basavalinga Swamy (2017). "Analysis and Design of Low-Voltage Low Power Double Tail Comparator" International of Innovative Research In Computer AND Communication Engineering, (IJRCCE) (ISSN No.Print:2320-9798, Online: 2320.-9801).

Basavalinga Swamy (2017). "Design and Implementation of Linear Dc-Dc Converter in 0.18um CMOS Technology" International of Innovative Research In Computer AND Communication Engineering, (IJRCCE) (ISSN No.Print:2320-9798, Online: 2320.-9801).

Soumya Raga, Sadhana C,Basavalinga Swamy (2020). " An Efficient Adaptive Binary Range Coder and Its VLSI Architecture." International Journal of Information Technology and Electrical Engineering, ISSN 2306-708X,Volume-9,Issue-4,August-2020

Bashetty Pallavi, Basavalinga Swamy, Sadhana C, (2020) "Open Stubs Loaded Rectangular Microstrip Antenna", J. Adv. Res. in Information Technology, Systems & Management, Volume 4, Issue 2 - 2020, Pg. No. 1-7 Peer Reviewed Journal

Syed Arif Ali, Basavalinga Swamy, Sadhana C, (2020) "Design and Simulation of A Microstrip Patch Antenna Array Using ANSYS HFSS for Zigbee and Wimax Applications J. Adv. Res. in Networking and Communication Engineering Volume 3, Issue 2 - 2020, Pg. No. 19-23 Peer Reviewed Journal.

Basavalinga swamy Dr.C M Tavade Dr.Kishansingh (2021) "A ring monopole quad band antenna loaded with metamaterial and slots for wireless applications", Bulletin of Electrical Engineering and Informatics Vol. 10, No. 5, October 2021, pp. 2716-2723 ISSN: 2302-9285, DOI: 10.11591/eei.v10i5.3185

Basavalinga swamy Dr. C M Tavade Dr.Kishan singh . (2021) " A Highly Miniaturized Microstrip Patch Antenna Based On T-, Pie-, And Circular-shaped Slot-based Dgs For Wireless Application ", Telecommunications and Radio EngineeringVol. 80, Issue-6, September 2021, pp. 29-39 ISSN: 0040-2508.

Basavalinga swamy Dr.C M Tavade Dr.Kishan singh (2021) “Design of Circular Microstrip Patch Antenna for Wireless Application”, Journal of Advanced Research in Wireless, Mobile and Telecommunication Vol. 4, Issue-2, 2021, Page. No. 8-11 Peer Reviewed Journal.

Basavalinga swamy Dr.C M Tavade Dr.Kishansingh (2022) “A Quad Band Circular Split Ring Resonator Antenna for Lower WiMAX, Satellite and Ku-Band Applications”, JOURNAL OF OPTOELECTRONICS LASER Vol. 41, Issue-2, Feb 2022, ISSN:1005-0086 , DOI: 10050086.2022.02.7

Aishwarya, Basavalinga Swamy, Sadhana C, (2023) “Arduino Based Smart fertilizer management system Journal Control and Instrumentation Engineering Volume 9, Issue 3 - 2023, e-ISBN:2582-3000,

Raaziya Banu, Basavalinga Swamy, Sadhana C, (2023) “Smart Farm Fertilizer and Pesticide Prediction Using IOT, Journal of Instrumentation and Innovation Sciences Volume 8, Issue 3 - 2023, e-ISBN:2456-9860

Nagaraj Hatte, MadhuKeshav, Ravikiran, Basavalinga Swamy, (2024) “Deep Learning-based Model for Abdominal Trauma Detection”, “Journal of Instrumentation and Innovation Sciences” Volume 9, Issue 2 - 2024, e-ISBN:2456-9860.

Sweta, Dr Basavalinga Swamy , Sadhana C, (2024) “Synthesis of Hidden State Transitions for Sequential Logic Locking” Journal of Control and Instrumentation Engineering e-ISSN: 2582-3000, Vol. 10, Issue 3 (September – December, 2024) pp: (28-34)

Rekha, Dr Basavalinga Swamy, Sadhana C, (2024) “An Artificial Neural Network Architecture Based on Reversible Logic” Journal of Optoelectronics and Communication Volume 7 Issue 1 DOI: <https://doi.org/10.5281/zenodo.14556915>

List of Conference Papers

Basavalinga Swamy (2012). “Design of a Low Output offset Voltage CMOS OPAMP”, International Conference on Electrical and Electronics Engineering (ICEEE) held at Mysore on 30th June-2012.

Basavalinga Swamy(2014) “E-Waste Management in India And Strategies”, in National Level Seminar held at BVB College Bidar during 13th and 14th Feb-2015

Basavalinga Swamy (2015). “An On-chip AHP Bus Tracer with Multimedia and Multiresolution Support for SOC”, National Level Conference on Advanced Trends in Electronics and Computer Science held at Basavakalyan Engg College, Basavakalyan during 9th and 10th May 2015.

Basavalinga Swamy (2015). “A 16-Core with Shared Memory and Message Passing Communication”, National Level Conference on Advanced Trends in Electronics and Computer Science held at Basavakalyan Engg College Basavakalyan during 9th and 10th May 2015.

Basavalinga Swamy (2015). “An Efficient VLSI Architecture for 3-D DWT Using Lifting Scheme”, National Level Conference on Advanced Trends in Electronics and Computer Science held at Basavakalyan Engg College Basavakalyan during 9th and 10th May 2015.

Basavalinga Swamy (2016). “ Design Reversible Ternary Content-Addressable Memory Design Using Verilog HDL”, National Conference on Advanced Computing and Communications” held at GNDEC,Bidar during 22nd and 23rd Oct 2016.

Basavalinga Swamy (2016). “ Digital Signature for Signed Executable”, National Conference on Advanced Computing and Communications” held at GNDEC, Bidar during 22nd and 23rd Oct 2016.

Basavalinga Swamy (2017). “Analysis and Design Low Voltage and Low Power Double Tail Comparator ”, National Conference on Recent Advances in Engineering and Technology held at Basavakalyan Engg College, Basavakalyan during 27th and 28th May 2017 .

Basavalinga Swamy (2017). “Design and Implementation of Linear Dc-Dc Converter in 0.18um CMOS Technology ”, National Conference on Recent Advances in Engineering and Technology held at Basavakalyan Engg College, Basavakalyan during 27th and 28th May 2017 .

Basavalinga Swamy (2017).. ““A Smart Home Automation Device Control Using Bluetooth and Android Phone”, National Conference on Recent Advances in Engineering and Technology held at Basavakalyan Engg College, Basavakalyan during 27th and 28th May 2017 .

Basavalinga Swamy (2018) “Fire Alert Alarm System by Using GSM Based SMS Sending”, National Conference on Recent Innovations in Science, Engineering Technology and Management” held at Basavakalyan Engg College, Basavakalyan during 17th and 18th May 2018 .

Basavalinga Swamy, Dr. C M Tavde, Dr, Kishan Singh (2020) “Survey on Microstrip Antenna”, International Conference on Scienceand Technology”, held at Sharabasava university, Kalburgi during 29th to 31st August 2019

Basavalinga Swamy, Dr. C M Tavde, Dr, Kishan Singh (2020) “Design Of Microstrip Antenna For Wide band And Multiband Operation”, International Conference on Physics and Allied Science”, held at BVB College,Bidar during 11th to 13th March 2020 .

Sandhyarani T, Sadhan C, Basavalinga swamy (2020) “Design and Implementation of Losses Data Comparison Using FPGA”, National Conference on Advances in Electronics and Computing and Communication technology”, organized by the department of Electronics and Communication Engineering. GNDEC, Bidar during 11th to 12th AUGUST 2020.

Bashetty Pallavi, Basavalinga Swamy, Sadhana C, (2020) “Open Stubs Loaded Rectangular Microstrip Antenna”, National Conference on Advances in Electronics and Computing and Communication technology”, organized by the department of Electronics and Communication Engineering. GNDEC, Bidar during 11th to 12th AUGUST 2020.

Syed Arif Ali, Basavalinga Swamy, Sadhana C, (2020) “Design and Simulation of A Microstrip Patch Antenna Array Using ANSYS HFSS for Zigbee and Wimax Applications”, National Conference on Advances in Electronics and Computing and Communication technology”, organized by the department of Electronics and Communication Engineering. GNDEC, Bidar during 11th to 12th AUGUST 2020.

Basavalinga Swamy, Dr. C M Tavde, Dr, Kishan Singh (2021) “Design of Circular Microstrip Patch Antenna for Wireless Application”, International Conference on Advances in Communication &Computing Technology (ICACCT-2021) Organized by ECE Department, GNDEC Bidar. during 11th to 12th December 2021.

Basavalinga Swamy, Dr. C M Tavde, Dr, Kishan Singh (2022) “A Study of Multiband Monopole Antenna Design for Wireless Communication Applications” National Conference On Recent Trends In Engineering And Management Studies (RTEMS - 2022)) Organized by LAEC Bidar. during 12th to 13th April 2022.

Sadanad Satte, Basavalinga Swamy, , (2022) “A Study on Finger Accredited Locker For Railway Cloak Rooms” International Conference on Multidisciplinary Research” organized by Sharanbasava University kalburgi ,during 22nd to 23rd Nov 2022

Shashidhar , Basavalinga Swamy, , (2022) “A Study on EV Charging station Slot Availabilty Using Embedded IOT Cloud Technology” International Conference on Multidisciplinary Research” organized by Sharanbasava

University kalburgi ,during 22nd to 23rd Nov 2022

Samreen Naaz, Basavalinga Swamy, (2022) “Design of DC-DC Converter with Linear Assisted Converter Based on a 0.8 μm CMOS Technology” International Conference on Multidisciplinary Research” organized by Sharanbasava University kalburgi ,during 22nd to 23rd Nov 2022

Thareem fatima, Basavalinga Swamy,, (2022) “ Design of a 1.8GHz PLL using 0.18 μm CMOS Technology” International Conference on Multidisciplinary Research” organized by Sharanbasava University kalburgi ,during 22nd to 23rd Nov 2022

Navinkumar, Sadhana C Basavalinga Swamy, (2023) “Low Power High Order Approximate Multiplier Using Approximate High Order Compressor” National Conference On Advances In Electronics, Communication & Computing (NCAECC-2023)” organized by Dept of ECE, GNDEC, Bidar during 13th to 14th May 2023

Suman, Sadhana C Basavalinga Swamy, (2023) “Towards an automated design flow for memristor” National Conference On Advances In Electronics, Communication & Computing (NCAECC-2023)” organized by Dept of ECE, GNDEC, Bidar during 13th to 14th May 2023.

Raaziya, Basavalinga Swamy, Sadhana C (2023) “A Study of 7T SRAM for Low Power Application” National Conference On Advances In Electronics, Communication & Computing (NCAECC-2023)” organized by Dept of ECE, GNDEC, Bidar during 13th to 14th May 2023.

Aishwarya , Basavalinga Swamy, Sadhana C (2023) “A Study of Two Stage Operational Amplifier” National Conference On Advances In Electronics, Communication & Computing (NCAECC-2023)” organized by Dept of ECE, GNDEC, Bidar during 13th to 14th May 2023.

Abhishek Akash Shradha, Adarsh ,Basavalinga Swamy, (2023) “Arduino-Based Smart Dustbin” National Conference On Advances In Electronics, Communication & Computing (NCAECC-2023)” organized by Dept of ECE, GNDEC, Bidar during 13th to 14th May 2023.

Dr Basavalinga Swamy, Dr.naganth Biradar (2024) “Design of Square Micros tip Patch antenna for multiband operation ” National Conference On Science Technology, Engineering& Management 2023-2024 ” organized by SVERI’s College of Engineering, Pandharpur during 24th and 25th January 2024

Ambika S G Basavalinga Swamy, Sadhana C (2025) “Social Media forensics: An Adaptive cyberbullying-Related Hate Speech detection Approach Based on Neural Networks with Uncertainty” 2nd International Conference On Multidisciplinary Research (ICMR-2025)” organized by Faculty of Engineering and Technology , Sharanbasava University, kalaburagi in Association with Lingaraj Appa Engineering College Bidar during 29th and 30th July 2025.

Ambika Basavalinga Swamy, Sadhana C (2025) “ A hybrid Ensemble and Explainable AI model for Thyroid Disease Diagnosis Using Clinically Validated Features” 2nd International Conference On Multidisciplinary Research (ICMR-2025)” organized by Faculty of Engineering and Technology , Sharanbasava University, kalaburagi in Association with Lingaraj Appa Engineering College Bidar during 29th and 30th July 2025.

Shivangi Basavalinga Swamy, Sadhana C (2025) “ An artificial Intelligence-Based Early detection of Dengue Using CBC Data” 2nd International Conference On Multidisciplinary Research (ICMR-2025)” organized by Faculty of Engineering and Technology , Sharanbasava University, kalaburagi in Association with Lingaraj Appa Engineering College Bidar during 29th and 30th July 2025.

12. Books published : No

13. Workshop/Seminar Conducted FDP Attended /:

VTU TEQIP 1.3 Sponsored Three Days Workshop on Recent Trends in IT Industry organized by LAEC, Bidar Faculty Development Program organized by AIET Gulbarga, during 15th to 24th Jan 2013.

VTU –VGST FDP on “Micro and Nano Electronics (MAN)” organized by GNDEC, Bidar from 6th to 9th Aug 2013.

VTU –VGST FDP on Recent Trends In “VLSI Design and Embedded Systems” organized by AIET, Kalburgi from 5th to 8th May 2014.

Faculty Development Program on “NUEdu-SDK-Nuc472ARM Cortex M4” organized by Department of PG Studies, VLSI and ES, VTU Belgavi, during 21st to 22nd Nov 2014.

Faculty Development Program on “Effective Teaching and Research Skills Towards Global Standards In Higher Education” organized by AIET Gulbarga, during 8th to 13th Jan 2015.

Faculty Development Program on “Effective Teaching and Learning Skills” organized by AIET Gulbarga, during 4th to 9th Jan 2016.

Faculty Development Program on “Effective Teaching and Learning and Research Skills Towards Global Standards” organized by AIET Gulbarga, during 19th to 24th July 2016.

VGST Sponsored FDP on “Advanced Antennas Technology and Smart antennas” organized by GNDEC, Bidar from 1st to 4th Dec 2018.

five days Virtual Faculty Development Program (FDP) on “Next Generation Electronics and Computer Networks” held from 2nd-6th June 2020, organized by Department of Electronics and Communication Engineering, Bheemanna Khandre Institute of Technology, Bhalki-585328, Dist: Bidar, Karnataka.

one week online Faculty Development Program (FDP) on LaTeX organized by Guru Nanak Dev Engineering College, Bidar, Karnataka in association with IIT Bombay Spoken Tutorial (An initiative of National Mission on Education through ICT, MHRD, Govt. of India,) from 28th April 2020 to 4th May 2020.

3 Days Faculty Development Program on "Recent Trends in Wireless Sensor Networks and Communication System" organized by Department of Electronics & Communication Engineering of VSM'S SOMASHEKAR R. KOTHIWALE INSTITUTE OF TECHNOLOGY, NIPANI from 03/06/2020 to 05/06/2020.

Two-day webinar series on “Recent Trends in Electronics and Communication Engineering” during 11th & 12th June 2020, organized by Department of Electronics and Communication Engineering, Basaveshwar Engineering College (A), Bagalkot, Karnataka

One Week Online FDP on “Advances and Research Opportunities in E&TC Engineering ” from 10/06/2020 to 14/06/2020 Organized by Department of Electronics & Telecommunication Engineering, SVERI's College of Engineering Pandharpur.

One Week Online Faculty Development Programme on “Effective Proposal Writing for Research and Funding” organized by Department of Electronics & Telecommunication Engineering In association with IEEE Women in Engineering from 13th May to 18th May 2020.

3-day Face-to-Face FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education (AICTE) at Lingaraj Appa Engineering College, Bidar from 6th November to 8th November 2023.

One week Faculty Development Program on Microsoft Power BI Data Analyst Associate conducted by ICT Academy on 10 Jun 2024 to 14 Jun 2024 at Lingaraj Appa Engineering College

One week Faculty Development Program on The fusion of semiconductor advancement and PI Paradigm conducted by SVERI college of Engineering College, Pandrapur, and Guru Nanak Deb Engineering College Bidar from 23 Dec to 29th DEC 2024 .(In Hybrid Mode Under Capacity Building Program)

5 days e-Faculty Development Program on AI Unleashed: Shaping the future with Intelligence” Organized by conducted by Department Electronics and Communication Engineering,SIR M.Visvesvararya College Of engineering Raichur from 08/09//2025 to 12/0/09/2025

14. Training programmers/Workshops/Seminars/STTPs/Symposiums/Webinars attended.

Three days Training on “Analog System Design” Organized By VLSI Division of Schools Of Electronics Engineering, VIT University, Vellore in Collaboration with Texas Instruments andCranes Software Pvt. Ltd during Oct 10-12, 2011 at VIT University, Vellore.

One Day Training on “Designing with the Xilinx 7 Series Families” held at Bangalore Conducted on8th Feb 2012.

One Day seminar on “Analog CMOS Layout” Conducted by IEEE Student Branch VTU ExtensionCentre, UTL Technologies Ltd, Bengaluru Held On March 24th, 2012.

Two days’ Workshop on “VLSI Design Lab Using Open Source” Conducted By Dept Of ECE and Rand D Centre, M S Engg, College Bangalore During 24th and 25th July 2013.

Two days National Level Workshop on “Recent Research Trends in Communication Networking”, Organized by Dept Of ECE, BKIT Bhalki, during 15th and 16th March-2013.

Two days National Level Workshop on “Image Processing and Communication system”, Organizedby Dept Of ECE, AIET Kalburgi, during 21st and 22nd Sep-2013

One days National Level Training on “VLSI Design and Embedded system”, Organized by DeptOf ECE, BKIT Bhalki, during 27th and 28th Sept-2013.

Two days National Level Workshop on “Advances in Communication”, Organized by Dept Of ECE,AIET Kalburgi, during 4th and 5th April-2014.

Two days National Level Workshop on “Research Methodology”, organized by Dept Of ECE, AIETKalburgi, during 24th and 25th August-2014.

Workshop On Antenna Modelling & Simulation Using FEKO and IEE Authorship (virtual mode) Jointly organized by IEEE APS student Branch Chapter-RVCE IEEE AP-MTT Chapter and IEEE Bangalore Section during 22nd -27th FEB 2021.

Five Days Online Workshop on Frontiers in Cloud Computing, Artificial Intelligence & Machine Learning and Internet of Things In collaboration with IEEE Student Chapter STB60209665 Lingaraj Appa Engineering College. Bidar.in association with Sharnbasva University IEEE WIE AG SBA35739, IEEE Bangalore Section

On the view of International Women’s Day Week 2024 Celebration with theme “Inspire Inclusion – Investing in Women: Accelerate Progress ”from 12th March 2024 to 16th March 2024.

3 days’ workshop on Embedded IOT Application Design and development held on 20th,21th ,and 22nd May 2024 at Lingaraj Appa Engiiering College Bidar.

Workshop On RF Networks and Antenna Designing for next generation Communication Systems (virtual mode) organized by the School of Electronics Engineering (SENSE) between 25.09.2024 and 26.09.2024 at Vellore Institute of Technology (VIT)- Chennai.

AMD-Xlinix Technical Webinar on **Dynamic Re- configurability in FPGA using DFx** held on 15th May 2025 in Association with Corel Technologies (I) PVT LTD. And AMD-Xlilnx

In-Person NPTEL Awareness Workshop Conducted on June 19, 2025 by NPTEL, IIT Madras in Association with Sharnbasava University Kalaburagi

AWARDS/ACHIEVEMENTS:

- On “**Antennas**” and Secure 82% conducted by SWAYAM –NPTEL, during April –May 2020
- On “**System Design Through Verilog**” and secure 56% conducted by SWAYAM –NPTEL, during July – Sep 2023.
- Best paper Award for presenting paper on “Design of Patch antenna For Multi band Operation”, Organized by National Conference on 'Science, Technology, Engineering & Management' at E&TC Department in SVERI's College of Engineering, Pandharpur Jan 2024.
- Editor of Journal of Advanced Research in Networking and Communication Engineering and Journal of Advanced Research in Microelectronics and VLSI.

15. Details of Memberships in Professional Societies:

1. Member, Life time member of Indian Society for Technical Education. LM- 130728
2. Member, The Institution of Electronics and Telecommunication Engineering.M-502191
3. IEEE Professional member 98638470
4. IEEE Excom Member of NKSS section from 2024 to till Now

16. Student Guided:

32 PG students and 9 group of UG students.