

CURRICULUM VITAE

Carrier objective

To contribute in the growth and success of a Visionary Organization in the technology space through hard work, commitment and dedication. I would look-up to my employer to help me hone my technical skills and develop my professional career to grow to positions of technology leadership.

Education Qualifications:

Ph D in Electrical Sciences from VTU Belgaum.

Qualification	Board/IIT/University	Institute and Place where Studied	Year of Passing	Class & % Marks
SSLC	Karnataka Secondary Education Board	Cordial High School, Bengaluru	1999	FCD 92%
PUC / 10+2	PU Board	MES College, Bengaluru	2001	FCD 84%
UG Degree(ECE)	VTU	PES Institute of Technology, Bengaluru	2005	FCD 72%
PG Degree(VLSI and Embedded Systems)	VTU	UTL Technologies, VTU Extension Center, Bengaluru	2007	FCD 73%
Ph D (ECE)	VTU	Visvesvaraya Technological University, Belgaum	2019	

Work Summary

- Working as Associate Professor at ECE Dept., BGSCET, Bengaluru(October 2022 to till date)
- Worked as an Asst. Prof. at EIE Dept., RNSIT, Bengaluru. (Aug 2006 to October 2022)
- Member of BoE, Electronics and Instrumentation Engineering, VTU, 2021-22.
- Worked as an intern in Robert Bosch, Bengaluru. (Dec 2006 to May 2007)

International Journals Published

J1: Varshinee Velayudha, Anagha Vasista, K Tejasri, Dr. Madhura Gangaiah, Algorithm Based Tool to Determine First Distant Recurrence Pattern in Breast Cancer Patients after Curative Surgery , International Journal of Innovative Research in Applied Sciences and Engineering (IJIRASE) , Volume 4, Issue 3, DOI: 10.29027/IJIRASE.v4.i3.2020.652-658, pp. 652 -658, September 2020.

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- J2:** Nihal Polanki, Dr. Madhura G, Anirudh Sosale, Ashish Kumar, Srinivas Mutalik, Development of Integrated Diagnosis Tool for Detection of Breast Cancer using Labview, International Journal of Science and Innovative Engineering and Technology, Volume 6, May 2020
- J3:** Madhura Gangaiah, Varun Shilesh, Rithika Shenoy, Abhilash N, Breast Cancer Detection using Image Processing and Magnetic Resonance Imaging Files Transfer, International Journal of Advanced Science and Technology, 29(11s), pp. 1194 – 1202, June 2020.
- J4:** Madhura Gangaiah, Dr. Andhe Pallavi, IOT based Breast Cancer Monitoring using MRI images Post Neoadjuvant Therapy, International Journal of Computer Science and Engineering, Volume 7, Issue 13, May 2019, pp.44-48.
- J5:** Madhura Gangaiah, Dr. Andhe Pallavi, A Handy Diagnostic Tool for Preventive Therapy based on Prior Estimation of Metastasis, International Journal of Science and Research (IJSR), Vol 4, Issue 2, February 2015, ISSN: 2319-7064, pp. 445-449.
- J6:** Madhura Gangaiah, Dr. Andhe Pallavi, Tumor Size Processing using Smart Phone, International Journal on Recent and Innovation Trends in Computing and Communication”, Vol 3, Issue 2, February 2015, pp. 785-788.
- J7:** Madhura Gangaiah, Dr. Andhe Pallavi, Quantification of VEGF Protein Biomarker for Prediction of Metastases, International Journal of Advanced Information Science and Technology (IJAIST), Vol 31, No 31, November 2014, ISSN: 2319-2682, pp.56-59.

International/ National Conferences

- C1:** Varshinee Velayudha, Anagha Vasista, K Tejasri, Dr. Madhura Gangaiah, Biomedical Sleep Inducer, IEEE Digital Xplore 7th International Conference on Advanced Computing and Communication Systems (ICACCS), Issue 1, pp.425-428
- C2:** A review on Smart Dust: Emerging Technology, NCETEST 3, Dr. Madhura Gangaiah, Nimisha, Keerthana P, 17th June 2020.
- C3:** Resistive Type Soil Moisture Sensor, Dr. Madhura Gangaiah, Shishir Athreya, Pooja N, NCETEST 3, 17th June 2020.
- C4:** Crop Prediction Using IOT based Farming Methods, Janardhan B, NCETEST 3, 17th June 2020.
- C5:** Cloud Computing: Transforming the World of Information Technology, Dr. Madhura Gangaiah, Nimisha, Keerthana P, NCETEST 3, 17th June 2020.
- C6:** A Review on National Regional Navigation Satellite System (NAVIC) and its impact on Indian Subcontinent, Dr. Madhura Gangaiah, Varun Shilesh, Vaishnavi A, Manogna T, Preethi V, NCETEST 3, 17th June 2020.
- C7:** Madhura Gangaiah, Dr. Andhe Pallavi, Protein Biomarker Quantification method for Diagnosis of Cancer, Second International Conference on Circuits, Control and Communications CCUBE2017, December 2017
- C8:** Madhura Gangaiah, Dr. Andhe Pallavi, Pranab Bhat, Dr. Sachin Jadhav, Dr. Jayanthi Thumsi, Quantification of VEGF for Diagnosis based on Protein Biomarkers, IEEE Sponsored 9th International Conference on Intelligent Systems and Control (ISCO), January 2015.
- C9:** Madhura Gangaiah, Akshay Chetri, Sheetal B V, Arduino based Smart Controller Vehicle at National Conference on Emerging Trends in Engineering Science and Technology May 2017, RNSIT.
- C10:** Rithika Shenoy, Madhura Gangaiah, " Review on Fabrication of Integrated Circuits ", IETE Sponsored Second National Conference on Emerging Trends in Engineering, Science and Technology, May 2019

C11: Tejasri K, Varshinee Velayudha, Anagha Srivastava, Madhura Gangaiah " SOMNUS PROMPTER " , IETE Sponsored Second National Conference on Emerging Trends in Engineering, Science and Technology, May 2019.

Major Projects Guided

- MASSfit Fitness Monitoring System.
- A Low Cost Sensor Network For Real Time Monitoring and Contamination Detection in Drinking Water Distribution System.
- Theft Detection while Transporting Liquid Products.
- IoT based smart energy meter.
- A Handy Diagnostic Tool for Preventive Therapy based on Prior Estimation of Metastasis.
- Quantification of VEGF Protein Biomarker for Prediction of Metastases.
- Image Enhancement and Feature Extraction of Mammogram Images with the aid of Fuzzy theory and GLCM algorithm.

Sponsored Projects

- Awarded an amount of Rs 5500/- for the project “Enhance Braille Display” at 44th Series KSCST series

Talks Delivered

- Webinar on “Microcontrollers” as part of Gurukul Series organized by IEEE Section, Bangalore on 25th May 2020.
- “MSP430 Microcontroller Basics” at RNSIT for UG students on 01-02-2017.
- “ Advanced DSP Processors” at RV College of Engineering, Bengaluru to M Tech students at Department of Electrical and Electronics Engineering on 15th Nov 2012.
- “Basics of VHDL” at Adhiyamaan College of Engineering, Hosur, Tamil Nadu on 20-06-2009.
- “VLSI Design and its Applications” at Adhiyamaan College of Engineering, Hosur, Tamil Nadu on 31-03-2009.

Conferences

FDPs/Workshops/Conferences/ Webinars attended so far for update of knowledge

- 3 Day online Training on “Image Processing and Computer Vision from 15-05-2020 to 17-05-2020 organized by Gustovalley Technovations
- 1 day Workshop on “Problem Solving with Python” on 18-01-2020 at RNSIT

- 3 day FDP on “Python Programming and Applications” on 18-06-2018 to 20-06-2018 at RNSIT
- Two day Workshop on Applied Bioinformatics for Developing protein based diagnostics and Tools at Connect-in Institute for Applied Research and Innovation on February 4th – 5th 2019
- One Week FDP on “IoT Based Project Design and Development” at BNMIT, ECE Dept 24th to 29th June 2019.
- Attended 2 day Workshop on “Digital Signal Processing Lab” during Jan 23-24, 2018 at RNSIT, Bengaluru.
- Attended 7 days FDP on “ARM CORTEX M3” from 8th to 14th January, 2016 conducted at BNMIT, Bangalore.
- Attended 2 days workshop program on “Statistical and Numerical Trends in Engineering” during 29-30, July 2015, BIT, Bengaluru.
- Attended 1-day workshop on “Research Methodologies and Latex” during 4-5 Feb, 2013 at BIT, Bengaluru
- Attended 13 days training program on “Advanced Communication Technologies” during 15-27, July 2013 organized by RNSIT, Bengaluru.
- Attended three days workshop on “MATLAB and its applications to Image Processing and Communication”, 28-30, Jan 2013 at RNSIT, Bengaluru.
- Attended STTP on “MSP430 Microcontroller and Programming”, 27 Jan 2012 at RNSIT, Bengaluru.
- Attended Workshop on “INUP Familiarization Workshop on Nanofabrication Technologies” during 16-18, April 2012 organized by Center for Nanoscience and Engineering, IISc, Bengaluru.
- Attended Workshop on “Low Power Embedded System using MSP430 Microcontroller” during 18-19, Jan 2012 organized by Texas Instruments India University Program in collaboration with board of studies VTU
- Attended Two days Workshop on “Graphical System Design in Engineering Education” during 27-28 Feb, 2009 organized by BMS College of Engineering, Bengaluru.
- Attended Educator’s Day 2008, the annual Technical Forum for faculty and research scholars on 21 November 2008 at Leela Palace, Bengaluru.
- Webinar on “AI and Data Science” on 30-05-2020 organized by IEEE Circuits and Systems(CAS) Society Bangalore Chapter
- Webinar on “How to Write and Publish 50000+ Research and Conference papers Effectively and Efficiently using TYPESET Research Studio” on 22-06-2020 organized by RIT Central Library of Rajarambapu Institute of Technology, Maharashtra.
- Two Days International Webinar on “Art of Writing Scientific Articles, Funding Proposals and Patent” on 26-05-2020 and 27-06-2020 organized by Chennai Institute of Technology, Chennai.

- Webinar on “The How and Why of Transitioning to Data Science for non IT Professionals” on 30-05-2020 organized by Cambridge Institute of Technology, Bengaluru.
- Webinar on “IEEE Reference Management Tool for Research Articles and Thesis Writing” held on 20-05-2020 organized by IEEE Bangalore Section.
- Webinar on “Free MOOC to Complement Engineering Education” held on 13-05-2020 organized by IEEE Bangalore Section.
- Three Day Webinar on “Funding Opportunities – Proposals and Research Projects for Faculty” held from 18 – 20 June 2020 at Cambridge Institute of Technology, Bengaluru
- Five Day Web Conference on “Intellectual Property Rights and Innovation” from 23 – 27 June 2020 organized by East West Institute of Technology, Bengaluru.
- Five Day Instructor Led Live Online FDP on “Artificial Intelligence and Machine Learning using Python” held during 18- 22 May 2020.
- Two Days Online Training Program on “Android App Development for Embedded Systems” under Texas Instruments University Program in association with EdGate Technologies Pvt. Ltd.

Subjects Handled:

- Analog Electronic Circuits
- Microcontrollers
- Embedded Systems and RTOS
- Advanced Microcontrollers
- Basic Electronics
- Advanced Embedded Systems
- VLSI Design, Digital Image Processing
- Electronic Instrumentation and Measurements
- Technical Innovation Management and Entrepreneurship

Labs Handled:

- Analog Electronic Circuits Lab
- Microcontrollers Lab
- Instrumentation Lab
- Process Control Lab
- Signal Conditioning and Data Converters Lab

Other Activities:

- Worked as event Coordinator in arranging IEEE International Conference CCUBE2021 on December 23rd and 24th 2021.

- Worked as Coordinator for AICTE activity and Unnat Bharat Abhiyan and carried out social service activities at villages Nagegowdanapalya and Kenchenahalli from 17-02-2020 to 29-02-2020.
- Worked as Test time table and Time Table coordinator.
- Worked as NAAC and NBA coordinator.
- Worked as Internship, Project work and Seminar coordinator.
- Worked as editor for Apertura (College Magazine) 2013, 2014.
- Worked as Cultural Coordinator for conducting inter and intra college fests(PARICHAY and PANTHEON) at RNSIT 2009-2013.
- Worked as Registration committee head for International Conference Circuits, controls and Communication(CCUBE 2013 and CCUBE 2017).
- Arranged Industrial visit to BWSSB, RR Nagar, Bengaluru.
- Worked as a Staff Coordinator for National Conference on Advanced Electrical Science, NCAES-2010 at RNSIT, Bengaluru.
- Worked as a Staff Coordinator for Faculty Development Program on “Applications of Analog Electronics” on March 29-31, 2010, jointly organized by Texas Instruments, India and RNSIT.
- Participated in Global Pink-O-Health, a Breast Cancer awareness program organized by BGS Global Hospitals on 31st October 2015.
- Worked as a Staff Coordinator in 3 days’ Workshop on “C, Microcontroller 8051, VHDL” to Technical staff in RNSIT, Bengaluru.
- Participated in several 5KM RUN/ Marathon organized by Mindtree(RRUNN 2019 and 2018), RNSIT(Save the Tiger RUN 2017, 5KM RUN 2018, 2019).

Major Strength:

- Hard working, multitasking, meeting the set deadlines.
- Flexibility and willingness to always learn and try new things.
- Planning and time commitment.

Teaching Award:

- Received award of Academic excellence for obtaining 100% result in Embedded Systems and RTOS, VLSI Design, PIC Microcontroller, Advanced Microcontrollers at RNSIT, Bangalore.

Awards/ Honors:

Karnataka Ranadhherara Pade, Bengaluru invited as a Guest on Womens Day Celebration and Honored for Research work on 08-03-2019.

Dr. Madhura Gangaiah

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Dr. Madhura Gangaiah