

## **DR. SHIVAKUMARASWAMY G M**

**B.E** (Electrical & Electronics), **M.Tech** (Electronics), **Ph.D.** (Electronics & Communication Engineering )

Assistant Professor

Department of Electrical & Electronics Engineering

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### **AREA OF INTEREST**

- Power System, Analog and Digital System Design, Data Security, Data Privacy

### **EDUCATIONAL QUALIFICATION**

- **Ph.D.** Completed from **Srinivas University**, Mangaluru, in the year 2023
- **M.Tech** (Electronics) with first class from **SIR MVIT, Bengaluru**, Affiliated to Visvesvaraya Technological University.
- **B.E** (Electrical & Electronics) with first class from **Bapuji Institute of Engineering and Technology**, Davanagere, Affiliated to Kuvempu University, in the year 2000

### **TEACHING EXPERIENCE - 20 Years**

- Presently working as Assistant Professor in **Electrical and Electronics Engineering** Department B.I.E.T, Davanagere from **01/01/2019 to till date**.
- Worked as a Lecturer in **Electronics and Communication Engineering** Department B.I.E.T, Davanagere from **02/09/2004 to 31/12/2011**.
- Worked as a Assistant Professor in **Electronics and Communication Engineering** Department B.I.E.T, Davanagere from **01/01/2012 to 31/12/2018**.

### **PROFESSIONAL MEMBERSHIP**

- Life Member of Indian Society for Technical Education – **LM-53857**
- Life Member of Institute of Electronics & Telecommunication Engineers : **M-219040**

### **PAPER PRESENTATION**

#### **International Conference:**

1. Praveen K, **Dr. Shivakumaraswamy G.M**, Dr. Rajanna G S, Presented and published a paper entitled “A Novel Techniques to Reduce the Test Data Volume and Test Time for General Configuration by Embedded Deterministic Testing”, International Conference on Internet of Things, Communication, Intelligence and Computing - during 5th & 6th May 2023, held at Shridevi Institute of Engineering & Technology.

## **PAPER PUBLICATION**

1. **Dr. Shivakumaraswamy G M.,** “An Investigation of Privacy and Security Concerns in the Internet of Things: A Comprehensive Survey”, International Journal of Advanced Research in Computer and Communication Engineering, Vol. 13, Issue 4, April 2024 with ISSN (O) 2278-1021, ISSN (P) 2319-5940, DOI: 10.17148/IJARCCCE.2024.134166
2. **Dr. Shivakumaraswamy G M.,** “Agricultural utility vehicle with field monitoring using IoT”, Volume 13 , Issue 04 , April – 2024 of IJERT with ISSN : 2278-0181
3. **Dr. Shivakumaraswamy G M.,** Dr. Rajanna G S, Dr. Ashoka K, “IoT-based malware detection using OBL-based DBN with hybrid GHABC optimization in healthcare applications” International Journal of Advanced Technology and Engineering Exploration (IJATEE), paper communicated (SCOPUS indexed journal with ISSN: 2394 – 7454).
4. **Shivakumaraswamy G M.,** Dr. Rajanna G S, Dr. Ashoka K, “Design an IoT Enabled Healthcare System for Improving the Performance of Security and Authentication in Cloud Computing”, TELEMATIQUE, Volume 21, Issue 1, October-2022 pp. 6114-6126. (Web of Science and ESCI indexed journal with ISSN 1856-4194)
5. **Shivakumaraswamy G M.,** Dr. Rajanna G S, Dr. Ashoka K, “Privacy preserving in Electronic Healthcare Data using Application Based Requirements with Sensitivity Level Flags” Computer Integrated Manufacturing Systems, Volime-28, No.-11. (SCOPUS indexed Q2 journal with ISSN: 1006 – 5911).
6. **Shivakumaraswamy G M.,** Dr. Rajanna G S, Dr. Ashoka K, “Issues of Security and Privacy in Internet of Things: A realistic Survey” NEUROQUANTOLOGY, Vol. 20, Issue. 11, pp. 8106-8112, November-2022. (SCOPUS indexed Q3 journal with ISSN: 1303-5150).
7. Praveen K, **Shivakumaraswamy G M,** Dr. Rajanna G S, Dr. Ashoka K, “Analysis of Test Data and Test Data Volume by using EDT test compression for Multiple Configurations” in International Journal of Advanced Research in Computer and Communication Engineering , Impact Factor 7.39, Vol. 11, Issue 1, January 2022
8. Praveen K, **Shivakumaraswamy G M,** Vidya G H “Study of Frequency and Polarization reconfigurable on square patch antenna” in International Journal of Scientific research in Computer Science, Engineering and information Technology , Volume VII, Issue II, | ISSN 2456-3307, March 2021.
9. **Shivakumaraswamy G M,** Vidya G H “Conversion of sound energy to Electrical energy” in International Journal of research in Engineering, Science and Management, Volume III, Issue VI, | ISSN 2561- 5792, June 2020
10. **Shivakumaraswamy G M** “ Brain Tumor detection using image processing and sending tumour information over GSM” International Journal of advanced research in Computer and Communication Engineering ,Volume V, Issue V, | ISSN 2278-1021, May 2016

## **EXTRA/CO-CURRICULAR ACTIVITIES**

- Coordinator EC-Forum for a period of three years and conducted successfully many curricular and extracurricular activities.
- Worked as a Team Member of VTU Central Valuation from 2006 to 2009 at BIET Center.
- Accompanied EC students to visit Industries
  - BSNL Telephone Exchange.
  - FM Station Chitradurga, Bhadravathi.
  - Vestas Wind Mill Power Station near Chitradurga.
  - Varahi Hydro Power Plant.... etc
- Worked as a team member of Public Address System Committee
- Worked as Invigilator for KPSC Exam, Police Exam, ComedK, GATE.... etc
- Worked as Recourse Person for IGNOU, BPT, STJIT... etc
- Worked as a team member of Value Added Training Programme - 2012
- Worked as Internal Deputy Chief Superintendent for June-July-2018 and Dec-2018-Jan-2019 VTU examinations at B.I.E.T., Davangere.
- Worked as Invigilator, Deputy Chief Superintendent (Internal & External) for B.E, M.Tech & M.B.A examinations.

## **FDP/STTP/WORKSHOPS/WEBINAR/CONFERENCES ATTENDED**

- Participated in National Level One Week Faculty Development Program on “Recent Development in Green Technologies” organized by Department of Electrical and Electronics Engineering, ATME College of Engineering, Mysuru, held from 24th – 29th September 2021.
- Participated in the five days Faculty Development Programme on Achieving Excellence in Teaching, Research and Commercialization during 16th August – 21st August, 2021 organized by Amity Institute of Information Technology, Amity University Kolkata.
- Participated in the One Week Faculty Development Programme Advance Cyber Security and Forensics from 26th July 2021 to 31st July 2021 (1 week) organized by E & ICT Academy, IIT Kanpur (A Joint Initiative of MeitY & IIT Kanpur)
- Participated in the five days Faculty Development Programme on Machine Learning – Foundation. Methodologies and Interconnections during 19th July – 23rd July, 2021 organised by Amity Institute of Information Technology, Amity University Kolkata.
- Attended the Webinar on “Effective Utilization of VTU Consortium E-Resources using RRCE” jointly organized by Library and Information Centre & Department of Information Science & Engineering of Raja Rajeswari College of Engineering, Bangalore on 2nd July 2021.
- participated in AICTE-ISTE Sponsored Orientation/ Refresher One Week Online Programme On “Model Based Design Using MATLAB, Electronic Design Automation Technologies” From 9th to 15th March 2021 Organized by K. I. T.’ s College Of Engineering (Autonomous),

Kolhapur.

- Attended a Five Day's Online Faculty Development Programme on "Advancement in Signal and Image Processing" organized by Department of Electronics and Communication Engineering in association with IEEE and IETE Student Chapter of Atria Institute of Technology, Bengaluru during 8 – 12th February 2021.
- Participated in online Webinar on "Recent Trends in Electrical Power Systems" organized by ANGADI Institute of Technology, Belegavi held on 06th January 2021
- Participated in online Webinar on "Advances in Solar Energy Technology" organized by Oxford college of Engineering , Bengaluru, 01st January 2021
- Participated in online Webinar on "Recent Trends in Electrical Power Systems" organised by ANGADI Institute of Technology, Belegavi held on 06<sup>th</sup> January 2021
- Participated in online Webinar on "Advances in Solar Energy Technology" organized by Oxford college of Engineering , Bengaluru, 01<sup>st</sup> January 2021
- Participated in online Webinar on "Remote Lab Platform for Hardware Circuit Experiments" organized by BIET, Davangere held on 10<sup>th</sup> November 2020
- Participated in online Webinar on "OS and Automotive Systems" organized by Vemana Institute of Technology, Bangalore held on 18<sup>th</sup> July 2020
- Participated in online Five days Faculty Development Program on "Sensors and Their Applications" organised by IEEE Council, Vemana Institute of Technology, Bangalore held on 13-17<sup>th</sup> July 2020
- Participated in National Level online Webinar on "Simulation Driven Innovation for e-Mobility" organized by KLE Institute of Technology held on 10<sup>th</sup> June 2020.
- Participated in one day Workshop on "Basic First aid training" organized by Vmedo's Basic first aid curriculum at BIET college, Davangere, held on 9<sup>th</sup> Nov 2019
- Participated in one day Workshop on "First Course in the IOT Series for Teachers" organized by learning center IIT Bombay , held on September 21, 2019 at BIET college, Davangere
- Participated in a one week Training program on "Application of LABVIEW in Engineering & Research" in February 2019 conducted by department of Electronics and communication Engineering, BIET college, Davangere
- Participated in one day Faculty development program on "Computer vision in industry, cloud, and micro services " in February 2019 conducted in BIET college, Davangere

- Participated in one week Short term Training program through ICT mode on “EFFECTIVE TEACHING ” in JULY 2019 conducted in BIET college, Davangere
- Participated in Two day FDP on LabView & its Applications on 2nd & 3rd Aug 2012 at BIET, Davangere
- Participated in VTU – VGST Faculty Development Programme on “ Recent Advances In MedicalImaging Techniques” on 26th - 30th Mar 2012 at GSSSIETW, Mysore
- Participated in Two day Hands-on on FDP on Low Power Embedded Systems Using Texas InstrumentsMSP430 Microcontroller on9th-10th Feb2012 at BIET, Davangere
- Participated in Two day workshop on “LABVIEW & NI Hardware” on2nd - 3rd Sep-2011 at KSIT,Bangalore
- Participated in Two day workshop on “Advanced Electrical Power Systems and Artificial IntelligenceTechniques” on11th -12th Feb 2011 at BIET, Davangere
- Participated in Two day workshop on “Artificial Neural Network & its Applications.” on 17th-18thSep-2010 at STJIT, Ranebennur
- Participated One day workshop on “Mathematics & its Applications In Engineering” On 18th Feb -2010 at BIET, Davangere
- Participated in Three day workshop on “Digital System Design using HDL – Synthesis & Simulationusing Test Benches” on16th- 18th Apr 2009 at BIET Davangere
- Participated in One day workshop on “Mechatronic and Microprocessor” on 7th March – 2009 at BIET,Davangere
- Attended a seminar on“ Mathematics & Applications in Engineering”, on 18th Feb 2010 at BIET,Davangere
- Workshop on Embedded System Design, organized by IIPC , E&C Dept, BIET, Davangere andAdvanced Electronic Systems ,Bangalore 27th April 2007.
- Workshop on “Tanner Tools. Pro- A complete VLSI design”, organized by E&C Dept., BIET,Davangere and Sovereign Technologies, Bangalore on 16th Nov.2006.
- Attended a workshop on “Disaster prediction, Prevention & Mgmt” ISTE 35th Annual Convention from15th -17th Dec 2004 at BIET, Davangere.

## **RESPONSIBILITIES**

- NBA Criterion – 6 Coordinator.
- NAAC Criterion - 4 Coordinator.
- Sports Convener from 2015 – 2021.
- Coordinator for EC Forum, Time Table for EC & EEE Department, Internship, Alumni, Parents, Entrepreneurship Development Cell...
- Analog Electronics Lab In-charge.

## **PROJECT GUIDED**

- Guided more than 20 UG Project batches.

## **SUBJECTS TAUGHT**

- Basic Electrical Engineering
- Basic Electronics
- Linear Integrated Circuits & Applications
- Computer Concepts and C Programming
- Analog Electronic Circuits
- Digital System Design
- Signals & Systems
- Network Analysis
- Operating System
- Operation Research and Management...

### **DR. SHIVAKUMARASWAMY G M**

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