



DAYANANDA SAGAR ACADEMY OF TECHNOLOGY AND MANAGEMENT

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

Opp. Art of Living, Udayapura, Kanakapura Road, Bangalore- 560082

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Accredited NBA, NAAC with A+, New Delhi

Faculty Name	Mrs. KALPAVI CY	
Academic Designation	Assistant Professor	
Educational Qualification	BE, M. Tech, (Ph.D)	
Experience in Years	15.10 Years	
Area of Interest	IOT, Wireless Sensor Networks, Embedded System	
Date of Birth	20-06-1984	
Email ID	kalpavicy-ece@dsatm.edu.in	

Educational Details

- Ph.D - Pursuing in VTU, Comprehensive VIVA completed.
- M.Tech in Digital Electronics and Communication Systems from MCE, Hassan, under VTU University in 2008.
- B.E in Electronics and Communication Engineering, GMIT, Davangere, under VTU University in 2006.

Personal Details

- Date of Birth: 20/06/1984
- Hobbies: Painting, Drawing
- Languages Known: English, Kannada and Hindi.

Professional Experience

- Working as **Assistant Professor** in the Department of Electronics and Communication Engineering, **Dayananda Sagar Academy of Technology and Management**, Bengaluru, from **March-2022 to till date**.
- Worked as **Assistant Professor** in the Department of Electronics and Communication Engineering, **Acharya Institute of Technology, Bengaluru**, from **July 2017 to March 2022**.
- Worked as Assistant Professor in the Department of Electronics and Communication Engineering, **Sambhram Institute of Technology**, Bengaluru, from **August 2014 to July 2017**.
- Worked as Assistant Professor in the Department of Electronics and Communication Engineering, **East West Institute of Technology, Bengaluru**, from **August 2011 to August 2014**.

- Worked as Lecturer in the Department of Electronics and Communication Engineering, **G.M. Institute of Technology, Davangere**, from **August 2007 to May 2011**.

Professional Membership

- IEEE Student membership
- LIFE Member for ISTE
- LIFE Member for IETE
- LIFE Member for IAENG

Publications

International / National Journals:

- Kalpavi CY and Sujatha BM, “**Enhancing the Performance of LEACH Algorithm in Cluster-Based Hierarchical Homogeneous Routing Protocol for Large Area Coverage in WSN**”, in Tianjin Daxue Xuebao (Ziran Kexue yu Gongcheng Jishu Ban)/Journal of Tianjin University Science and Technology), **SCOPUS, Q2 Multidisciplinary**. October 2021. DOI:10.17605/OSF.IO/ETHWX, ISSN (Online): 0493-2137.
- Rakshith Kumar NH, CY Kalpavi, SP Rajeev, S Suhas, “**Human Detection Robot for Disaster Management**” in Journal of Electronics and Communication Systems, Volume-8, Issue-1, PP-32-38, 2023.
- CY Kalpavi, M Darshan, V Isha, MP Teja, “**Intelligent Ambulance Using IOT**”, in Journal of Electronics and Communication Systems, Volume-8, Issue-1, PP-7-12, 2023.
- Kalpavi CY, Veena CS, “**A Novel Approach: Design Issues and Challenges in Hierarchical Routing Protocols for Wireless Sensor Networks**”, IOSR Journal of Computer Engineering (IOSR-JCE, Volume- 22, Isssue-5, 2020. PP: 27-34.
- Kalpavi CY, R Shreyas, B Varun, H Shiva Kumar, B Punith Kumar, “**Design and Development of Women Self Defence Smart Watch Prototype**” in International Journal of Advanced Research in Electronics and Communication Engineering, Volume 5, Issue 4, Apr-2016. pp: 1179-1185. ISSN: 2278 – 909X.
- Kalpavi CY, Manasa BT, Anita HT, “**Design and Implementation of Finger Print Core Point Detection on FPGA**” in International Journal of Advanced Research in Electronics and Communication Engineering, Volume 4, Issue 1, Jan-2015. pp 0014-0020.
- Kalpavi CY, “**Design and Implementation of USB Driver for Real Time Application**” in International Journal of Engineering and Computer Science, Volume 4, Issue 1, Jan-2015. Pp: 9804-9808. ISSN: 2319-7242.

International / National Conferences:

- Kalpavi CY, Veena CS, “**Performance Analysis of LEACH Protocol for Cluster Based Hierarchical Routing Protocol in WSN Design**”, International Web Conference on Recent Trends and Developments in Applied Research and Industrial Practices, held on ISBN: 978-93-90214-13-6. 20-21November 2020.

- Kalpavi C Y, Veena CS, “**A Survey on: Energy Efficient Big Data in Cluster Based Wireless Sensor Networks**”, International Conference on Latest Advancement and Future Trends in Engineering, Science and Management, organized by Sambhram Institute of Technology, 3-4 May 2019.

Conference Attended

- Attended IEEE Region 10 Humanitarian Technology Conference, R10 HTC, organized by Region 10, and co-hosted by IEEE Bangalore Section, from 30th September to 2nd October 2021.

Seminar Attended

- Participated in Orientation Session on “**National Education Policy (Focus on Innovation and Entrepreneurship)**”, on 22nd January 2022, organized by Institution Innovation Council (IIC) in association with IEDC, SJCIT.
- Online user awareness program on “**Springer Nature e-Resources**”, jointly organized by VTU consortium and Springer Nature, on 3rd December 2021.
- Participated in Virtual “**IEEE Signal Processing Society Forum on Image and Video Signal Processing**”, organized by IEEE Signal Processing Society and Bengaluru section on 27th March 2021.
- One day Seminar on “**Microelectronics technologies for Sensors and Systems**”, conducted in association with ISTE by Dr.AIT, on 24th April 2021.
- One day online Seminar on “**Natural Language Processing using NLTK and deep Learning Models**”, conducted in association with ISTE student chapter, by Dr.AIT, on 16th April 2021.
- Participated in National Level webinar on “**Counselling, Coaching, Mentoring**”, conducted by IIHRD on 27th March 2021.
- Participated in the 12th ISTE State Level Annual Convention and two days National Seminar on “**Role of Faculty in the Examination System**” on 20th and 21st of November 2009 at GMIT, Davangere.

Workshop Attended

- Organized a **Five day** workshop on “**System Design using Xilinx Vivado Design Suites and Zynq-7000 SOC**” held on 23rd July to 27th July 2018, organized by Dept, of ECE AIT, Bangalore.
- Participated in two day workshop on “**System Using MSP430 and TIVA**”, organized by SaIT, Bangalore with EdGate Technologies Pvt Ltd, on 13-14th of March 2015.
- Participated in 3 days “**Mission 10x**” Engineering Faculty workshop, held on 1st to 3rd December 2014, at SaIT, Bangalore.
- Participated in 3 days workshop on “**Explore VIN Research areas**” held on 24th, 25th and 26th July 2012, conducted by Department of ECE and TE, VKIT Bangalore.

- Participated in one day workshop on “**Digital Communication Techniques**” sponsored by Technical Education Quality Improvement Programme held at Malnad College of Engineering, Hassan on 7th October 2006.
- Attended one day workshop on “**Satellite Communication**” held at MCE, Hassan on 2006.

Patents published with All Details

Title of the Invention: “WSN-IoT Clustering for Secure Data Transmission in E-Health Sector using Green Computing”.

Field of Invention: COMMUNICATION

Application Number: 202141047948

Publication Date (U/S 11A): 29/10/2021

Application Status: Awaiting request for examination.

Research Grants fetched with File No.

NA

Student Project Funds Fetched with Grant No.

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY, Students funded projects:

- “**WOMEN SELF DEFENCE WATCH**”, 39th Series, Project Reference No: 39S_BE_0054. (2015-16)
- “**IEEE 802.3U I-Series Blood Bank Refrigerator**”, 33rd Series, Project Reference No: 33S0578 (2009-10)
- “**Solar Photovoltaic Dust-Dawn Switching System**”, 33rd Series, Project Reference No: 33S0577 (2009-10).
- “**Smart Gloves with Hand Gesture Recognition and Health Monitoring for Military Purpose**”, VTU sponsored project grant for ECE department during the academic year 2021-22.

Consultancy Amount Fetched with Details

NA

Awards

Certification Courses:

I have completed following MOOC/NPTEL certification courses:

COURSERA Certification Courses on:

- “Introduction to Big Data”, authorized by University of California San Diego, completed on May 14th 2020.

- “Introduction to the Internet of Things and Embedded Systems”, authorized by University of California, Completed on 15th May 2020.
- “Create Your First Python Program”, from UST”, completed on May 19th 2020.
- “Introduction to Machine Learning”, authorized by Duke University, completed on 24th December 2020.

NPTEL Certification Courses on:

- “DIGITAL CIRCUITS”, 12 week course, July to October 2018, cleared with Elite.
- “Digital Electronic Circuits” 12 week course, January to April 2019.
- “Teaching and Learning in General Programs: TALG”, 4-week online course and FDP from July to August 2019, cleared with Elite.
- “Outcome Based Pedagogic Principles for Effective Teaching”, 4-weeks online course and FDP from Feb-Mar 2023.
- “Problem Solving Through Programming in C”, 12-weeks online course and FDP from July to October 2022.

COURSERA Project Network on:

- Classification Trees in Python, From Start to Finish, on 19th May 2020.
- Introduction to Google DOCs, on 15th May 2020.
- Building a Calculator using C# in Visual Studio, on 15th May 2020.
- Create Customer Support Data with Google Sheets, on 17th May 2020.
- Hierarchical Clustering: Customer Segmentation, on 19th May 2020.
- Design a Mobile App Interface with Moqups, on 1st April 2022.
- Custom Prediction Routine on Google AI platform, on 5th April 2022.

Recognition

- Received an appreciation certificate: REVIEWER for IEEE Region 10 Humanitarian Technology Conference R10HTC. 30th of Sep. to 2nd Oct. 2021. Organized by: IEEE Bengaluru Section.
- Awarded with “**Best College Teacher of the Year -2019**” from IARDO Academic Excellence award-2019 committee, India Educational Charitable Trust, Ghaziabad, on the occasion of International Conference and Academic Excellence award on Recent Innovation and Interdisciplinary Research on **7th December 2019**.
- **Technical Talk** on “**Recent Trends in Wireless Sensor Networks & Introduction to NS2**” on 11th March 2017, at ECE Seminar hall, Sambhram Institute of Technology, Bangalore.
- Received an “**Appreciation Certificate**” From department of ECE, GMIT Davangere for active co-ordination in hosting WIZTEC-2009
- I have qualified in **GATE – 2006** exam. With **GATE SCORE of 237** and **ALL INDIA RANKING – 11382**.

Academic Activity

- Organized 3 days Workshop on “Application of Artificial Intelligent for Image Processing using MATLAB”, in association with CoreEL technologies, by department of ECE, DSATM from 3rd to 5th MAY 2023.
- **Technical Seminar Coordinator** during 2017 to 2021 at Acharya Institute of Technology, Bengaluru.
- **Department Magazine Coordinator** during 2019-20 and 2020-21 at Acharya Institute of Technology, Bengaluru.
- Handled **Placement Training Classes**: Solving Aptitude, Verbal, Non-Verbal, Logical Reasoning topics for 4th and 6th semester students at AIT, Bengaluru.
- Organized 5 day’s **Faculty Development Programme** on “**Engineering Statistics and Linear Algebra**” from 27th to 31st January 2020, at Acharya Institute of Technology, Bangalore.
- **Internship Coordinator** during 2018-19 at Acharya Institute of Technology, Bengaluru.
- **Department Placement Coordinator** during 2015-16 and 2016-17 at Sambhram Institute of Technology, Bengaluru.

Faculty Development Activities

- Five days FDP on the theme “Inculcating Universal Human Values in Technical Education”, organized by AICTE from 13-17th September 2021.
- Three days FDP on “Research Funding and IPR(Part-II)” Organized by R & D cell, IQAC and Department of Computer and IT, K. C. College of Engineering from 7-9 June 2021.
- Six days Short Term Training Program on “Applications of NI LabView Phase-3”, organized by Department of ECE, NCET Bengaluru during 21-27 April 2021.
- Five days FDP on “PCB Design using Autodesk@Fusion 360TM”, organized by Department of Electronics and telecommunication Engineering, in association with Autodesk, India, from 8-12 February 2021.
- One week online FDP on “Image and Signal Processing”, from 4-8 January 2021, organized by department of ECE, JSSATM Bengaluru.
- Three day FDP on “INSIGHT OF NBA” organized by the department of IQAC, EXTN and Computer Engineering, from 28-30 June 2021.
- Participated in 2 days Faculty Development Programme on “**Research Data Management and Software Tools**” conducted by Department of Electronics and Communication engineering in association with IETE Bangalore centre at Sambhram Institute of Technology,, Bangalore from 7th Feb to 8th Feb 2020.
- One week Faculty Development Programme on “**Embedded System and Wireless Sensor Network for IOT**” conducted by Electronics & ICT Academy, IIT Roorkee at REVA University, Bangalore from 24th Feb to 28th Feb 2020.
- Participated in 5 day’s **Faculty Development Programme** on “**NS2 & ARM CORTEX**” from 29th Jan to 2nd Feb 2018, held at Sambhram Institute of Technology, Bangalore.
- Participated in 3 day’s **Faculty Development Programme** on “**Programming with ARM Cortex M3 Microcontroller**” from 1st to 3rd Feb 2018, held at Acharya Institute of Technology, Bangalore.

- Participated in one day **Faculty Development Programme** on “**The Magic of Making teaching Effective**” on November 24th 2014, held at Sambhram Institute of Technology, Bangalore.

Contact Details

Assistant Professor,

Department of Electronics and Communication Engineering,
Dayananda Sagar Academy of Technology & Management,
Udayapura, Kanakapura Road,
Bengaluru-560082

Mail ID: kalpavicy-ece@dsatm.edu.in

Phone No.: **7829777722**