



FACULTY PROFILE ON WEBSITE

Faculty Name	Dr. Kalpavi C Y	
Academic Designation	Assistant Professor	
Educational Qualification	Ph. D, M. Tech	
Experience in Teaching & Industry	18 Years 7 Months	
Date of Joining	28 th March 2022	
Official Email ID	Kalpavicy-ece@dsatm.edu.in	
Employee ID	180566	

Educational Details

- **Ph.D.** from Visvesvaraya Technological University, Belagavi in the field of Wireless Sensor Networks (AIT research Centre) and completed in the year 2024.
- **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.

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**.

Publications

International / National Journals:

- Kalpavi CY and Sujatha BM, **“An improvised dual step hybrid routing protocol for network lifetime enhancement in WSN-IoT environment”**, Multimedia Tools and Applications, Volume 83, Issue 21, IF: 3.0, page: 59965–59984, Published: 02 January 2024, <https://doi.org/10.1007/s11042-023-17823-3>.
- Kalpavi CY, Ravikumar HC, Mahadev S, Deepti V, Shalini M G, Sindhu K, presented a research article entitled **“Edge-Aware Vision Assistance: A Real-Time Transformer Based Object Detection and Reading System for Visually Impaired Users”**, in First IEEE International Conference on Transformative Computing Technologies (ICTCT-2025), organized by department of MCA, Acharya Institute of Graduate Studies, Bengaluru, India, during 18th – 19th September 2025.
- Kalpavi CY and Sujatha BM, **“Dual step hybrid routing protocol for network lifetime enhancement in WSN-IoT environment”**, International Journal of Reconfigurable and Embedded Systems (IJRES) 2024, Vol: 13, No:2, IF: 1.5, PP: 323-331, ISSN: 2089-4864, DOI:[10.11591/ijres.v13.i2.pp323-331](https://doi.org/10.11591/ijres.v13.i2.pp323-331)
- Dr. Dilip R, Mrs. Deepthi V, Mrs. Shalini M G, Mrs. Kalpavi C Y, Dr. Ravikumar H C, Mr. Mahadev S, **“CENTRALIZED TRAFFIC MANAGEMENT SYSTEM USING COMPUTER VISION”**, European Chemical Bulletin_12(6), August 2023, PP: 3984-3991, DOI:[10.31838/ecb/2023.12.si6.353](https://doi.org/10.31838/ecb/2023.12.si6.353)
- 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, Issue-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.

- Kalpavi C Y, Bhuvan M, **“ECHO OF INTRUSION: A Review on Environmental and Health Effects due to NOISE”**, **Journal of Emerging Technologies and Innovative Research**, **October-2024**.

International and National Conferences:

- Edge-Aware Vision Assistance: A Real-Time Transformer-Based Object Detection and Reading System for Visually Impaired Users, 2025 International Conference on Transformative Computing Technologies (ICTCT), IEEE Explore, March 2026, pp. 184-191.
- 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. 20-21 November 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.

Awards

- 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**.
- Received a appreciation certificate for Peer Review for WSEAS Transactions on Information Science and Application, on 9th December 2025.
- Received an appreciation certificate: REVIEWER for 8th International conference on Electronics, Computing and Communication technologies, IEEE connect, conducted on July 8-10 2022, Organized by: IEEE Bengaluru Section.
- Reviewer in the IEEE International Conference on Data Science and Information System (ICDSIS-2022), organized by the Malnad College of Engineering, Hassan, India in association with IEEE Bangalore Section and IEEE Mysore Subsection on 29th-30th July, 2022.
- 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.

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.

Academic Activity

- Coordinating NBA criteria 4 and NAAC criteria 1 files.
- Department level SPOC for Infosys Springboard MOOC platform.
- YOGA coordinator
- Coordinating Department MOM
- Coordinating as a Class teacher, Proctor, Guiding students in their Projects etc.

Faculty Development Activity/Workshops

- Participated in One week **Faculty Immersion Program on “AI For Educator”**, held between 22nd August to 26th August 2025, at DSATM campus in association with Smayan Foundation.
- Completed One Week AICTE–VTU Joint Teachers Training Programme on **“Introduction to Python Programming & its Applications”** from **13th to 17th March 2023** Organized by Visvesvaraya Technological University, Centre for PG Studies, VIAT, Muddenahalli, Chikkaballapur (Dist.).
- Participated in **“5-Days FDP on Innovative Teaching Learning Practices for Preparation of NEP-2020”** organized by Department of Artificial Intelligence and Data Science in association with Internal Quality Assurance Cell from 6th February to 10th February, 2023.
- Participated in Faculty Immersion Program on “Pedagogical Approaches”, held on 8-12th April 2022, organized by Dayananda Sagar Academy of Technology and Management, Bengaluru.
- 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 360™”, 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.
- 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.
- 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.
- 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.

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.

Certification Courses on Other platform:

- “Introduction to AI & ML”, 64 hours course completed on 6th January 2026, in Infosys Springboard Platform.
- “Python Complete Course for Python Beginners”, 1-week course, completed on 27th July 2023, on UDEMY platform.
- “Python 101 for Data Science”, a course on **cognitiveclass.ai** Powered by **IBM Developer Skills Network**, completed on 27th September 2022.
- “Basics of Python”, a course on Infosys Spring Board, Completed on 17th October 2022.
- “Network Fundamentals”, a course on Infosys Spring Board, Completed on 30th December 2023. (37Hr Course)

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.

Contact Details

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Bengaluru-560082

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