

# Curriculum Vitae of Dr. Divyashree M

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## **Dr. Divyashree M**

Assistant Professor

Department of Electronics & Communication Engineering,  
RV Institute of Technology and Management (RVITM),  
Bengaluru - 560 076.

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## **ACADEMIC QUALIFICATION**

### **Doctor of Philosophy**

Government Sri Krishnarajendra Silver Jubilee Institute of Technology (SKSJTI), Bengaluru

Affiliated to Visvesvaraya Technological University (VTU)

Year of Award: 2025

Thesis Title: *Efficient Approaches for Cognitive Internet of Vehicles (CIoV) in Vehicle Traffic Systems*

### **M.Tech in Digital Electronics & Communication Systems**

VTU Regional Centre, Mysuru

Affiliated to Visvesvaraya Technological University (VTU)

Year of Passing: 2014 | First Class with Distinction

### **B.E. in Telecommunication Engineering**

GSSS Institute of Engineering and Technology for Women (GSSSIETW), Mysuru

Affiliated to Visvesvaraya Technological University (VTU)

Year of Passing: 2012 | First Class

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## **TEACHING EXPERIENCES**

- Working as Asst. Professor in R V Institute of Technology & Management, Bengaluru (From 17/10/2022 to till date).
- Working as Asst. Professor in Dayananda Sagar Academy of Technology & Management, Bengaluru (From 10/12/2021 to 15/10/2022).
- Worked as Asst. Professor in MVJ College of Engineering, Bengaluru for 4 years (Academic year 2015-2019).

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- Worked as Guest lecturer in Govt. Engineering College, Chamarajanagar for 1 year (Academic year 2014-2015).

### ADDITIONAL RESPONSIBILITIES

- Actively contributed as a member of Internal Quality Assurance Cell (IQAC), supporting institutional quality initiatives, documentation, and continuous improvement strategies.
- Actively and voluntarily assisted NBA/NAAC as a service towards administrative responsibilities.
- Conducted and coordinated seminars, workshops, and technical events.

### SUBJECTS HANDLED

- Introduction to Electronics & Communication Engineering, Introduction to Cyber Security, Computer Networks, Multimedia Communications, Microwave and Radar, DSP Algorithms and Architecture, Digital Switching Systems, Operating Systems, Network Security.

### LABS HANDLED

- Communication Lab, Electronics Principles Communication Lab, Digital Communication Lab, Computer Networks Lab.

### PROJECT GUIDANCE

- Under Graduate (UG): 15

### AREAS OF INTEREST

- Internet of Things (IoT), Internet of Vehicles (IoV), Wireless Communication, Wireless Ad-Hoc Networks and Embedded Systems.

### SEMINARS /WEBINARS

- Participated in an outreach program on “Basics of IoT-Applications” organized by Department of Electronics and Communication Engineering of SRM Institute of Science and Technology, Vadapalani on 13<sup>th</sup> Febraury, 2021.

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- Participated in the webinar on “Machine Learning with Cloud Deployment” organized by Department of CSE (AI & ML) and Department of Information and Science and Engineering, Vidya Vardhaka College of Engineering, Mysore on 11<sup>th</sup> Dec, 2020.
- Attended the Webinar on “Connected Vehicles: Vehicles to talk to each other” organized by the IET Chennai Local Network held on 1<sup>st</sup> August, 2020.
- Participated in the webinar on “IoT - The Practical Perspectives” conducted by Department of Electronics and Communication Engineering of SRM Institute of Science and Technology, Vadapalani on 30<sup>th</sup> July, 2020.
- Participated in the Webinar on “Industrial IoT using LoRaWAN Technology” organised by MHRDs Institution Innovation Council in association with Department of Electronics and Communication Engineering, Pandian Saraswathi Yadav Engineering College from 25<sup>th</sup> – 27<sup>th</sup> May 2020.
- Participated in the Webinar on “Introduction to cloud computing and AWS” conducted by Department of Electronics and Communication Engineering, KPR Institute of Engineering and Technology, Arasur, Coimbatore on 08<sup>th</sup> May, 2020.
- Participated in the Webinar on “Light weight protocols in Internet of Things” conducted by Department of Electrical and Electronics Engineering, Sri Ranganathar Institute of Engineering and Technology, Athipalayam, Coimbatore on 07<sup>th</sup> May, 2020.
- Participated in the Webinar on “Challenges in Integrating Nano Sensors to IoT Platform” presented by Dr. Kazuaki Tanaka, Kyushu Institute of Technology, Japan organized by Chennai Institute of Technology on 04<sup>th</sup> May, 2020.
- Attended the Webinar on “Volunteering with IEEE” conducted by S.A. Engineering College, Chennai on 26<sup>th</sup> April, 2020.
- Attended the Webinar on “Essential Tips on Publishing High-Impact Journals” conducted by the IEEE Photonics Society SB Chapter of S.A. Engineering College, Chennai on 25<sup>th</sup> April, 2020.
- Participated in one day technical seminar on “Signal Processing & its Applications” at VTU-RC, Mysuru in 2014.

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### FDP/WORKSHOPS

- Successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Empowering Educators: A Deep Dive into Artificial Intelligence for Teaching, Research & Innovation at Vidya Vikas Institute of Engineering & Technology from 08<sup>th</sup> - 13<sup>th</sup> December 2025.
- Participated in a one-week Faculty Development Programme on “AI-Driven Image Intelligence: Advances in Processing and Learning” organized by E&ICT Academy IIT Guwahati in association with RV Institute of Management and Technology from 08<sup>th</sup>-12<sup>th</sup> September, 2025.
- Participated in the SERB sponsored National Level Two days FDP on “Emerging trends in mechanical engineering: bridging the gap with interdisciplinary technologies” on 25<sup>th</sup> & 26<sup>th</sup> September 2025 at RVITM.
- Attended Five Day Online Faculty Development Program "Emerging Technologies Shaping the Future", during 12<sup>th</sup> to 16<sup>th</sup> of May 2025 organized by Department of Artificial Intelligence & Machine Learning, Bangalore Institute of Technology.
- Attended Five Day Faculty Development Program “SPARC-AI: Signal Processing, Automation, and Real-Time Communication using AI in Electronics Design”, during 10<sup>th</sup> to 14<sup>th</sup> of February 2025 organized by Department of Electronics and Communication Engineering, RVITM.
- Participated in Microsoft India & SAP India led Faculty Development Program on “Artificial Intelligence” under TechSaksham Program from 16<sup>th</sup> Jan 2023 – 20<sup>th</sup> Jan 2023.
- Participated in 5-Day Online Faculty Development Program on “Importance of Data Science In Machine Learning And Its Applications” organized by the Department of Computer Science and Engineering & Department of Information Science and Engineering from 6<sup>th</sup> - 10<sup>th</sup> Feb 2023 at RV Institute of Technology and Management, Bengaluru.
- Participated in Inhouse 5 days Faculty Development Program on “VLSI IC Design and Avenues of Interdisciplinary Research”, held from 27<sup>th</sup> Feb 2023 to 3<sup>rd</sup> March 2023 organized by the Department of ECE, RVITM, Bengaluru.

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- Participated in Five days Online Faculty Development Programme on “Devops and AWS” organized by the Department of Computer Science and Engineering, Aalim Muhammed Salegh College of Engineering from 4<sup>th</sup> to 8<sup>th</sup> July 2023.
- Participated in the One Week National Level Faculty Development Program on “Cloud Infrastructure (AWS)” organized by R V institute of Technology and Management, Karnataka in collaboration with Brainovision Solutions India Pvt Ltd and All India Council for Technical Eductaion (AICTE) during the period of 21<sup>st</sup> to 25<sup>th</sup> August 2023.
- Participated in Five days Faculty Development Programme on “Outcome Based Education” on 25, 27, 30<sup>th</sup> September & 3, 4<sup>th</sup> October 2023 at R V institute of Technology and Management, Bangalore.
- Participated in the workshop “VLSI to System Design: Silicon to End Application Approach” organized by All India Council for Technical Education (AICTE), Arm Education and ST Microelectronics from July 31<sup>st</sup> to 4<sup>th</sup> August 2023.
- Participated in Faculty Immersion Programme (FIP) on Pedagogical Approaches, held at Dayananda Sagar Academy of Technology & Management, Bengaluru from 8<sup>th</sup> to 12<sup>th</sup> April 2022.
- Participated in the 5-Days National Level Online Faculty Development Program on “Machine Learning Approaches for Engineering Applications” from 27<sup>th</sup> Dec 2022 to 31<sup>st</sup> Dec 2022 Organized by Department of Information Technology, Prathyusha Engineering College.
- Attended “MATLAB Master Class” at Pantech Prolabs India Pvt Ltd from 17<sup>th</sup> May– 17<sup>th</sup> June, 2021.
- Participated in the workshop on “Online Lecture Series on IoT and its Applications” organized by Department of Information Science and Engineering, Vidya Vardhaka College of Engineering, Mysore from 03<sup>rd</sup> – 07<sup>th</sup> August 2020.
- Participated in the Online Three-Day Faculty Development Programme on “Deep Learning Application- Design, Development in IoT Edge” conducted by Electronics and Communication Engineering, SRM TRP Engineering College, Thiruchirapalli from 27<sup>th</sup> – 29<sup>th</sup> May 2020.
- Participated in one-day Online Faculty Development Program on “Machine Learning for Beginners” organized by Department of Electrical and Electronics Engineering,

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Sathyabama Institute of Science and Technology, Chennai on 09<sup>th</sup> May, 2020 in association with Indian Servers.

- Attended Three-Day Faculty Development Programme on “Internet of Things” Organized by Department of Computer Science Engineering, MVJ College of Engineering, Bangalore during 20<sup>th</sup> -22<sup>nd</sup> December, 2018.
- Attended FDP on “Research Paper Writing using LaTeX” held at Sai Vidya Institute of Technology, Bengaluru during 25<sup>th</sup>– 26<sup>nd</sup> July 2018.
- Attended FDP on “Advance Electronics Engineering Tools” held at MVJCE during 18<sup>th</sup>– 22<sup>nd</sup> December 2017.
- Attended One Week Workshop on “Big Data Analytics, IoT and Cloud Computing for Healthcare Applications” held at MSRIT, Bengaluru during 24<sup>th</sup>- 29<sup>th</sup> July 2017.
- Attended FDP on “Recent Trends in Wireless Communication” held at MVJCE during 21<sup>st</sup> and 22<sup>nd</sup> January 2016.
- Participated in one day workshop on “Use, Abuse and Misuse of Language in Research Publications” at VTU-RC, Mysuru in 2014.
- Attended “Image Processing & its Applications” training program held by itie knowledge solutions at VTU-RC, Mysuru in 2014.
- Attended two days workshop on “ASIC design using open source EDA” at VTU-RC, Mysuru in 2014.

### **PUBLICATIONS/ CONFERENCES**

#### **International Conferences:**

- Presented the paper entitled “Smart Brain Tumor Analysis Using YOLOV8 and 3D-UNET with Treatment Planning” at International Conference on Digital Technology and Engineering (ICDTE-2025), RV institute of Technology and Management, Bangalore, 16th-17th Oct 2025.
- Published the paper entitled “Li-Fi Based Vehicle Positioning System and V2V Communication” in International Journal of Management, Technology and Engineering (IJMT), Volume 9, Issue 6, June 2019 and Presented the paper at International

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Conference on Design Innovation for 3C's- Compute, Communicate, Control held at MVJCE, Bangalore on 2<sup>nd</sup> May, 2019.

- Published the paper entitled “RFID based Fast Checkout System” in International Journal of Management, Technology and Engineering (IJMT), Volume 9, Issue 6, June 2019 and Presented the paper at International Conference on Design Innovation for 3C's- Compute, Communicate, Control held at MVJCE, Bangalore on 2<sup>nd</sup> May, 2019.
- Published the paper entitled “Internet of Things (IoT): A Survey” in IEEE Proceedings and Presented the paper at International Conference on Networking, Embedded and Wireless Systems (ICNEWS-2018) technically Co-Sponsored by IEEE organized by Department of Electronics & Communication Engineering, B.M.S College of Engineering, Bangalore during December 27-28, 2018.

### **National Conferences:**

- Published the paper entitled “Implementation of MELP vocoder on FPGA” in International Journal of Applied Engineering Research (IJAER), Volume 12, Number 2, 2017 and Presented the paper at the CSIR sponsored 5<sup>th</sup> National Conference on Design Innovations for 3Cs “Compute- Communicate-Control” on 26<sup>th</sup> and 27<sup>th</sup> April 2017 held at MVJCE, Bangalore.
- Published the paper entitled “A Reliable Routing for Vehicular Ad hoc Networks using Evolving Graph” in International Journal for Technological Research and Engineering (IJTRE) Volume 1, Issue 9, May 2014 and Presented the paper at National Conference on Electrical & Electronics Engineering (NCEEE) on 5<sup>th</sup> of June 2014 held at HKBK College of Engineering, Bangalore.

## **JOURNAL PUBLICATIONS**

### **International Journals:**

- Divyashree M, Rangaraju H G, & Revanna C R, "Multi-objective optimized task scheduling in cognitive internet of vehicles: Towards energy-efficiency," International Journal of Electrical and Computer Engineering (IJECE), vol. 15, no. 1, pp. 1229–1241, 2025. <http://doi.org/10.11591/ijece.v15i1.pp1229-1241>

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- Divyashree M, Rangaraju H G, and Revanna C R, “Traffic Congestion Prediction using Soft Computing Approach in Cognitive Internet of Vehicles”, Journal of Computational Analysis and Applications (JoCAAA), vol. 33, no. 07, pp. 850–857, Sep. 2024.
- Divyashree M, Rangaraju H G and Revanna C R, “Mobile Adaptive Routing Algorithm for Road-Aware Infrastructure-Assisted Communication in Cognitive Internet of Vehicles”, International Journal of Interactive Mobile Technologies (IJIM), Vol. 18, No. 4, pp. 97-111, 2024. <https://doi.org/10.3991/ijim.v18i04.44715>
- Divyashree M, et al. “IoT Based Web Controlled Notice Board” in International Research Journal of Engineering and Technology (IRJET), Volume 5, Issue 4, April 2018.

### National Journals:

- Divyashree M, “Study of Diodes, BJT and Op-amps using MATLAB” in MVJCE-Journal Volume 4, Issue 2, Dec-2015.

### PATENTS

- **UK Design Patent (Published & Granted, Oct 2025):**  
*ML Driven Traffic Pattern Analysis Device for Autonomous Vehicles*, Design No. 6477891.

### PERSONAL SKILLS

Ambitious, calm, hardworking, optimistic, organized, team work and self-disciplined.

### DECLARATION

I assure that all the particulars given above are correct to the best of my knowledge.

Place: Bengaluru

Date: 30/4/2026

(Dr. Divyashree M)