



Dayananda Sagar Academy of Technology & Management

(Autonomous Institute under VTU)

Affiliated to **VTU**
Approved by **AICTE**
Accredited by **NAAC** with **A+** Grade
4 Programs Accredited by **NBA**
(CSE, ISE, ECE, MECH)

Faculty Name	T S USHA RANI	
Academic Designation	ASSISTANT PROFESSOR	
Educational Qualification	BE,MTECH	
Experience in Teaching & Industry	FRESHER	
Date of Joining	31/8/2026	
Official Email ID	usharani-ise@dsatm.edu.in	
Employee ID	180965	

Educational Details

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- 1. M.Tech. – Computer Science and Engineering**
New Horizon College of Engineering, Bangalore
2024–2026 | CGPA: **9.8**
- 2. B.E. – Computer Science and Engineering**
Cambridge Institute of Technology, Bangalore
2020–2024 | CGPA: **7.98**
- 3. Pre-University Course (PCMC)**
New Baldwin International PU College, Mandur, Bangalore
Percentage: **78%**
- 4. SSLC**
R.V. International School, Kolar
Percentage: **82.56%**

Publications

1. Emergency Vehicle Intelligent Detection and Signal Preemption Framework using Monte Carlo Simulation

<https://ieeexplore.ieee.org/abstract/document/11541639/>

2. Railway track inspection and fault detection using autonomous robotic vehicles

<https://pubs.aip.org/aip/acp/article-abstract/3257/1/020048/3351484>

3. RAILWAY TRACK FAULTS DETECTION USING DEEP LEARNING

<https://docs.google.com/viewerng/viewer?url=https://www.ijcrt.org/papers/IJCRTAB02032.pdf>

International Conferences:

9th International Conference on Trends in Electronics and Informatics (ICOEI-2026)

National Conferences:

N/A

Conference Attended

9th International Conference on Trends in Electronics and Informatics (ICOEI-2026)

Paper Presented: "Emergency Vehicle Intelligent Detection and Signal Preemption Framework using Monte Carlo Simulation"

21–23 April 2026 | SCAD College of Engineering and Technology, Tirunelveli, Tamil Nadu, India.

Awards

Awarded College Topper for Postgraduate Programs at New Horizon College of Engineering, securing the highest academic performance with a CGPA of 9.8 among M.Tech., MCA, and MBA programs.

Academic Activity

- Involved in academic research activities in **Artificial Intelligence, Machine Learning, Traffic Management, and Autonomous Systems**.
- Worked on research projects related to **Traffic Congestion Prediction, Emergency Vehicle Detection, and Railway Inspection**.
- Contributed to academic research through **research publications and patents**
- 2 Utility Patents Filed** in the areas of **Emergency Vehicle Detection and Adaptive Traffic Signal**

Control and Smart Kitchen Waste Reduction and Composting.

Faculty Development Activity/Workshops

- ▯ Microsoft Certified: Azure AI Fundamentals (AI-900)
- ▯ Microsoft Certified: Azure Fundamentals (AZ-900)
- ▯ Microsoft Certified: Power Platform Fundamentals (PL-900)
- ▯ NPTEL – Qualitative Research Methodology
- ▯ NPTEL – Software Project Management

Contact Details

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- **LinkedIn Profile** – <https://www.linkedin.com/in/usha-s-gowda-ab3a16340/>