



FACULTY PROFILE ON WEBSITE

Faculty Name	Dr. Ravikumar H C	
Academic Designation	Assistant Professor	
Educational Qualification	BE, M. Tech, Ph.D	
Experience in Teaching & Industry	17 & 0	
Date of Joining	27-10-2022	
Official Email ID	Ravikumar-ece@dsatm.edu.in	
Employee ID	180666	

Educational Details

- Ph. D (Electrical & Electronics Engineering Sciences), KSSEM, Bangalore, VTU, Belagavi, 2022
- M.Tech (VLSI Design & Embedded Systems), PESCE, Mandya, VTU, Belagavi 2009.
- B.E (Electronics & Communication Engineering) BCE, Shravanabelagola, VTU, Belagavi, 2007.

Professional Experience

- Working as an Assistant Professor in Dayananda Sagar Academy of Technology and Management, since 27th October 2022.
- Worked as Lecturer & Assistant Professor in Ghousia College of Engineering at Ramanagara from 19-02-2010 to 22-10-2022.
- Worked as Lecturer in Rajeev Institute of Technology at Hassan from 27-07-2009 to 18-02-2010.

Publications

- Early CKD Prediction Using Ensemble and Basic Machine Learning Models, International Journal of Online and Biomedical Engineering (iJOE), Vol. 22, No.5, (2026), pp. 171-184.
- Enhancing JSEG Color Texture Segmentation Using Quaternion Algebra Method, Buletin Ilmiah Sarjana Teknik Elektro, Vol. 8, No. 1, February 2026, pp. 151-164.

- Introduction to Digital Transformation in Agriculture: Trends and Opportunities, Sustainable Agriculture Production Using Blockchain Technology, Wiley Online library, Jan 2026.
- Real-world use of heart disease: Algorithm Implementation and Solutions using ML, Journal of Rare Cardiovascular Diseases, e-ISSN: 2300-5505 (Online), Sept. 2025, pp. 294-310.
- Detection and identification of un-uniformed shape text from blurred video frames, IAES International Journal of Artificial Intelligence (IJ-AI), Vol. 13, No. 4, December 2024, pp. 4795-4805.
- Reinforcement learning strategies using Monte-Carlo to solve the blackjack problem, International Journal of Electrical and Computer Engineering, Vol. 14, No. 1, February 2024, pp. 904-910.
- Analysis and prediction of seed quality using machine learning, International Journal of Electrical and Computer Engineering, Vol. 13, No. 5, October 2023, pp. 5770-5781.
- Artificial intelligence-based detection of body parameter using sensor signals, accepted in international journal of Electronics & communications.
- Centralized Traffic Management System using Computer Vision, European Chemical Bulletin, vol.12, 2023, pp.3984-3991.
- Customized Mask R-CNN for Un-uniformed Shape Text Detection and Text Recognition, International Journal of Electrical and Computer Engineering, vol.13, no.1, feb 2023, pp.413-424.
- Optimized and Efficient Deblurring through Constraint Conditional Modelling, Indonesian Journal of Electrical Engineering and Computer Science (IJECS), Vol. 21, No. 3, pp. 1503-1512, 2021.
- Image De-blurring based on Constraint Conditional model, International Journal of Innovative Technology and Exploring Engineering (IJITEE), vol 9, issue 3, pp 995-1000, 2020.
- Reconstruction of MR Images using Sparse Signal Sequences in Frequency Domain, International Journal of Innovative Technology and Exploring Engineering (IJITEE), vol 9, issue 3, pp 895-902, 2020.
- A Theoretical Approach on Detection and Recognition of Text in Complex Images and Video Frames, International Journal of Pure and Applied Mathematics (IJPAM), vol 119, no. 14, pp. 103-110, 2018.

International Conferences:

- Lightweight Cryptographic Protocols for Ultra-Fast Data Plane Processing, 2026 13th International Conference on Computing for Sustainable Global Development (INDIACom), IEEE Explore, May 2026.
- 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.
- Design and Stress Analysis of the Frame for an Electric Bike, Proceedings of the Second Congress on Control, Robotics, and Mechatronics, Smart Innovation, Systems and Technologies (SIST, volume 409), Spring.

- Automatic Brain Tumor Segmentation & Severity Assessments, in 2nd International Conference on recent trends in Signal Processing, Image Processing & VLSI organized by Department of Electronics & Communication Engineering, DBIT, Bangalore on 15th & 16th May 2015.

National Conferences:

Conference Attended

- Participated in International Conference on Transformative Computing Technologies (ICTCT-2025) held on 18th & 19th September 2025 at Acharya Institute of Graduate Studies, Bengaluru.
- Attended a National Conference on “Emerging trends in Electronics and Communication” organized by Dept. of ECE, BGSIT, B.G Nagar, Mandya on 4th April 2014.

Academic Activity

- Coordinating to Handle NAAC 3 criteria files and NBA 5 criteria files.
- Proctor Coordinator.
- Co-ordinated to Organize 3-days Students workshop on “Applications of Artificial Intelligence” in Image Processing using MATLAB from 03-05-2023 to 05-05-2023.

Faculty Development Activity/Workshops

- Participated in 5 days FIP on “Empowered Teachers as the torch bearers and pedagogical leaders” organized by Teaching Learning Center, DSATM, Bengaluru., from 26th Feb to 1st March 2024.
- Completed NPTEL online certification course (12 weeks) on Fundamentals of Semiconductor Devices, conducted by IISC, Bangalore, from January to April 2024.
- Participated in Joint Teachers Training Programme on “Introduction to Python Programming & its Applications” organized by Centre for PG studies,VTU,Muddenahalli, Chikkaballapur, from 13th to 17th March 2023.
- Participated in NPTEL-AICTE FDP on “Outcome Based Pedagogic Principles for Effective Teaching” organized by Indian Institute of Technology, Kharagpur, from Feb-Mar 2023 (4-week Course).
- Participated in 5 Days FDP on “Innovative Teaching Learning Practices for Preparation of NEP-2020” organized by Dept. of AI&DS, ADPSE, Maharashtra, in association with IQAC cell, from 6th June to 10th Feb 2023.
- Participated in ATAL Academy Online Advanced FDP on “Artificial Intelligence and Blockchain Application for Food Agriculture Sector” organized by Indian Institute of Plantation Management, Bengaluru, from 24th to 28th Jan 2022.
- Participated in ATAL Academy Online Elementary FDP on “Machine Learning Applications on Image Processing” organized by Nagarjuna College of Engineering & Technology, Bengaluru, from 17th to 21st Jan 2022.

- Participated in Five days online National Level FDP on “PCB Design” organized by Dept. of ECE, VVIET, Mysuru in association with Sienna ECAD technologies and ESSCI, from 29th June to 03rd July 2020.
- Participated in One-week online FDP on “Designing Automation for Future Industries” organized by Dept. of ECE, Ghousia College of Engineering, Ramanagara, from 9th to 13th June 2020.
- Participated in One day FDP on “Effective e-Resources Retrieval Strategies for Efficient Research” organized by Library and Information Centre in collaboration with IEEE, Ghousia College of Engineering, Ramanagaram on 9th Feb 2019.
- Participated in AICTE Sponsored two weeks SDP on “Recent Developments in Renewable Energy Sources & Its Applications” organized by Dept. of Mechanical Engineering, Ghousia College of Engineering, Ramanagaram from 13th to 25th Nov 2017.
- Participated in two days FDP on “Research Proposal Preparation Towards Ph.D. admission Programmes” organized by Dept. of ECE, KSSEM, Bangalore on 25th & 26th Jul 2017.
- Attended FDP on “Cloud Computing, Digital Learning, Artificial Intelligence & NPTEL” organized by iON PRIDE, TCS Global Axis, Bengaluru on 23rd & 24th Jan 2016.
- Attended FDP on “VLSI Design and Intellectual Property” organized by Dept. of ECE, Jyothi Institute of Technology, Bangalore on 9th & 10th Jan 2015.
- Attended FDP on “Advances in CMOS VLSI Design” organized by PESCE, Mandya sponsored by VGST from 8th Feb to 10th Feb 2011.

Contact Details

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