



FACULTY PROFILE ON WEBSITE

Faculty Name	SINDHU K	
Academic Designation	Assistant Professor	
Educational Qualification	B.E., M. Tech, Ph.D. (Pursuing)	
Experience in Teaching & Industry	4	
Date of Joining	13-12-2021	
Official Email ID	sindhu-ece@dsatm.edu.in	
Employee ID	180543	

Educational Details

- Ph.D. (Pursuing) from Visvesvaraya Technological University, Belagavi in the field of SAR Image Change Detection using Deep Learning and currently pursuing.
- M.Tech in Communication Engineering studied at PES University, Bengaluru. Secured First Class with Distinction and passed in the year 2019.
- B.E. in Electronics and Communication Engineering studied at Dayananda Sagar Academy of Technology and Management (VTU), Bengaluru. Secured First Class with Distinction and passed in the year 2017.

Professional Experience

- Working as Assistant Professor in the Department of Electronics and Communication Engineering, DSATM from 13/12/2021 to till date.

Publications

- Hotur V.P., Kowsar F., Sindhu K., Girish M.B., Pavithra G., Ninawe S.S., "An Intelligent IoT-Enabled Precision Farming Robotic System for AI-Based Crop Health Monitoring and Smart Agricultural Management," in Proceedings of the 4th IEEE International Conference on Knowledge Engineering and Communication Systems (ICKECS 2026), 2026. DOI: 10.1109/ICKECS70176.2026.11527566, EID: 2-s2.0-105041903388, Part of ISBN: 9798331547776. Scopus Indexed Conference Paper.
- Sumaiya M.N., Vinu R., Srilatha Y., Rehman S.A., Sindhu K., Kavyashri G., Sai Meghana Y., Mannapur S.S., "An Integrated Sensor-Based Machine Learning System for Predicting Crops and Fertilizers," in Proceedings of the 2025 IEEE 22nd India Council International Conference (INDICON 2025), 2025. DOI: 10.1109/INDICON68490.2025.11392969, EID: 2-s2.0-105036153816, Part of ISBN: 9798331590314. Scopus Indexed Conference Paper.
- Kalpavi C.Y., Ravikumar H.C., Khanderao M.S., Sindhu K., Deepthi V., Shalini M.G., "Edge-Aware Vision Assistance: A Real-Time Transformer-Based Object Detection and Reading System for Visually Impaired Users," in Proceedings of the 2025 International Conference on Transformative Computing Technologies (ICTCT 2025), 2025. DOI: 10.1109/ICTCT69201.2025.00046, EID: 2-s2.0-105037428307, Part of ISBN: 9798331591953. Scopus Indexed Conference Paper.
- Ravindranath C., Rehman S.A., Kavya Shri G., Sindhu K., Pavithra G., Ninawe S.S., "Efficient Simulation and RTL Implementation of the SPECK Algorithm Using Verilog for Improved Cryptographic Security and Performance in VLSI Based Systems," in 2025 IEEE 2nd International Conference on Green Industrial Electronics and Sustainable Technologies (GIEST 2025), 2025. DOI: 10.1109/GIEST66547.2025.11387089, EID: 2-s2.0-105035324390, Part of ISBN: 9798331574369. Scopus Indexed Conference Paper.

International Conferences:

- Hotur V.P., Kowsar F., Sindhu K., Girish M.B., Pavithra G., Ninawe S.S., "An Intelligent IoT-Enabled Precision Farming Robotic System for AI-Based Crop Health Monitoring and Smart Agricultural Management," in Proceedings of the 4th IEEE International Conference on Knowledge Engineering and Communication Systems (ICKECS 2026), 2026. DOI: 10.1109/ICKECS70176.2026.11527566, EID: 2-s2.0-105041903388, Part of ISBN: 9798331547776. Scopus Indexed Conference Paper.
- Sumaiya M.N., Vinu R., Srilatha Y., Rehman S.A., Sindhu K., Kavyashri G., Sai Meghana Y., Mannapur S.S., "An Integrated Sensor-Based Machine Learning System for Predicting Crops and Fertilizers," in Proceedings of the 2025 IEEE 22nd India Council International Conference (INDICON 2025), 2025. DOI: 10.1109/INDICON68490.2025.11392969, EID: 2-s2.0-105036153816, Part of ISBN: 9798331590314. Scopus Indexed Conference Paper.
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- Department Alumni Coordinator
- Coordinating NBA Department Level Criteria 1
- Coordinating NAAC Department Level Criteria 4
- Coordinating as a Class teacher, Proctor, Guiding students in their Projects etc.

Faculty Development Activity/Workshops

- Attended the Five-Day Faculty Development Programme on “Next-Generation Computing: Generative AI, Quantum Computing, Agentic AI, and Emerging Technologies”, organized by D. Y. Patil College of Engineering & Technology, Kolhapur, from 01/07/2026 to 06/07/2026.
- Attended a Faculty Development Programme on “Applied Internet of Things: Practical Design, Development & Real World Applications”, conducted by Dayananda Sagar College of Engineering (DSCE), Bengaluru, from 19/01/2026 to 24/01/2026.
- Attended an online Faculty Development Programme on “Next Generation IoT Security: Architecture, Threats and Practical Defenses”, organized by the Electronics and ICT Academy (Phase-II), PDPM Indian Institute of Information Technology, Design and Manufacturing, Jabalpur, from 06/10/2025 to 16/10/2025.
- Attended an AICTE Training and Learning (ATAL) Academy Faculty Development Program on “Advancements in Cellular Technology”, organized by the Department of Electronics & Communication Engineering, Faculty of Engineering and Technology, JAIN (Deemed-to-be University), Bengaluru, from 06/11/2023 to 11/11/2023.

Contact Details

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