PROFILE

Name	Dr. INDU K.
Position & Affiliation	Assistant Professor, Department of ECE, CIT
Areas of Interest	Electric Vehicle Mobility, Embedded Systems, Water Quality Monitoring Systems, Control Systems
Email	indu.ece@cambridge.edu.in
LinkedIn ID	https://in.linkedin.com/in/indu-krishna-bb874380
Google Scholar ID	https://scholar.google.co.in/citations?user=1PsmupMAAAAJ&hl=en
Orchid ID	
Vidwan ID	
Scopus ID	
Professional Webpage (if any)	

Educational Qualifications:

Ph.D	CHRIST (Deemed to be University), Bangalore	India	2024
MTech	Real Time Embedded Systems, MSRUAS	India	2016
BE	EEE, VTU	India	2014

Areas of Research:

Electric Vehicle Mobility, Embedded Systems, Water Quality Monitoring Systems, Control Systems

Brief Profile: (write about yourself)

Dr. Indu K., received her B.E. degree in Electrical and Electronics Engineering from Visvesvaraya Technological University, Belgaum in 2014. Received her M. Tech in Real Time Embedded Systems from M. S. Ramaiah University of Applied Sciences, Bangalore in 2016. Further, she completed her PhD from Christ (Deemed to be University), Bangalore in 2024 as a Full-Time Research Scholar with JRF Fellowship. Her research work is in Electric Vehicle Mobility.

She has around 5+ years of experience in industry, research and teaching. She is currently working as an Assistant Professor in Department of Electronics and Communication Engineering, Cambridge Institute of Technology, Bangalore. Her research interests include Electric vehicle mobility, Vehicle Control, Embedded Systems, Dynamic Systems, Machine learning, Real time control systems, Water quality monitoring systems.

She has published 8 papers in reputed Journals and International Conferences. Out of which 2 papers in SCI indexed (3 papers in Scopus indexed journals and 2 papers in WOS) etc. She has published 4 International conference publications as well.

Awards/Achievements/Others:

JRF Fellowship by CHRIST (Deemed to be University) July 2018- June 2021

Courses Taught:

Automotive Electronics, Digital Electronics, Digital Image Processing, Embedded Systems

Publications/Patents:

Publications	**Journals** [1]K. Indu and M. Aswatha Kumar., "Electric Vehicle Control and Driving Safety Systems -A Review", IETE Journal of Research, vol. 69, No. 1, pp. 482-498, 2023 (WOS Indexed) [2]K. Indu and Aswatha Kumar M., "Analysing the Performance of Braking System in an Electric Vehicle using Fuzzy Neural Networks", Sustainable Energy, Grids and Networks, vol. 36, pp. 101215, 2023. (WOS Indexed) [3]K. Indu and M. Aswatha Kumar., "Simulations of Electric Vehicle Model for Insights into Pre-Planned Trajectory Profiles", International Journal of Control and Automation, vol. 13, No. 02, pp. 677–686, 2020. (Scopus Indexed) **International Conferences (Scopus)** [5].K. Indu and M. Aswatha Kumar., "Learning Techniques for Societal Utility Electronics - A Futuristic Survey", In Proc. of International Conference on Data Science-IConDSC-2019, Jan 2019, Christ University. [6].K. Indu and M. Aswatha Kumar., "A Fundamental Study on Electric Vehicle Model for Longitudinal Control", International (Virtual) Symposium on Control, Communication and Embedded System for Robotics, SOCCER 2020, 03-04 October 2020, NIT Silchar, India, Sponsored by SPARC, MHRD, GoI. [7].K. Indu and M. Aswatha Kumar., "Impact of Inclination of Path Profiles on the Performance of Electric Vehicles" International Conference on Intelligent Communication, Control and Devices, ICICCD 2020, 27-28 November 2020, University of Petroleum and Energy Studies, Dehradun [8].K. Indu and Jishmi Jos Choondal., "Modeling, Development, Analysis of Low-cost Water Quality Testing Device" INDICON-2016, 13th International IEEE Conference at IISc, Bangalore.
Patents	
Book/Book Chapters	**Book Chapter Published** [1] K. Indu and M. Aswatha Kumar., "Electric Vehicle Research: Need, Opportunities and Challenges", Handbook of Sustainable Development Through Green Engineering and Technology, pp. 171-191,2022.

Research and Consultancy: