

## PROFILE

Name	<b>Ms. CHAITHRA S</b>
Position & Affiliation	Assistant Professor, Department of ECE
Areas of Interest	Digital Communication, Wireless communication, Digital Electronics, VLSI, and Computer net
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LinkedIn ID	<a href="mailto:chaithras.ece@cambridge.edu.in">chaithras.ece@cambridge.edu.in</a>
Google Scholar ID	<a href="https://scholar.google.com/citations?view_op=list_works&amp;hl=en&amp;user=58nbz-QAAAAJ&amp;gmlaF5puaEeN4wGtmtfcflhf9dpmPyRaLRNGPDpVVxZ6-wxZS_f7rUkb16O0Mh9LK3HSrA7kzERC3RZdcXsdZdL7VYo4-FIAG4IdsznIR0eW6ssYREiL_U&amp;sciund=17738655239596973145&amp;gmla=AJsN-F7jos0V0rpg2d0faV4qfo35s3aWfVfyoAD9FU3m2mjsivxPMEB60wLXypTo65T26NbjlZUsfPI96Q3jVy-69alndhnWZymJmdxbIX7Lz0FI&amp;sciund=14793326037372574221&amp;gmla=AJsN-F7WnfS8HH2iT5lm40cmdHXU6i4E_v_6e-HyCIYmNZ-hRbc4d-iFcWkCrIKqE-pxSz8pMWZmQX9JssaqF7FHXdJRhZKwuqddc1owpsnBm7kurTDiWM&amp;sciund=130479315">https://scholar.google.com/citations?view_op=list_works&amp;hl=en&amp;user=58nbz-QAAAAJ&amp;gmlaF5puaEeN4wGtmtfcflhf9dpmPyRaLRNGPDpVVxZ6-wxZS_f7rUkb16O0Mh9LK3HSrA7kzERC3RZdcXsdZdL7VYo4-FIAG4IdsznIR0eW6ssYREiL_U&amp;sciund=17738655239596973145&amp;gmla=AJsN-F7jos0V0rpg2d0faV4qfo35s3aWfVfyoAD9FU3m2mjsivxPMEB60wLXypTo65T26NbjlZUsfPI96Q3jVy-69alndhnWZymJmdxbIX7Lz0FI&amp;sciund=14793326037372574221&amp;gmla=AJsN-F7WnfS8HH2iT5lm40cmdHXU6i4E_v_6e-HyCIYmNZ-hRbc4d-iFcWkCrIKqE-pxSz8pMWZmQX9JssaqF7FHXdJRhZKwuqddc1owpsnBm7kurTDiWM&amp;sciund=130479315</a>
Orchid ID	0009-0007-6376-3354
Vidwan ID	<a href="https://vidwan.inflibnet.ac.in/profile/270510">https://vidwan.inflibnet.ac.in/profile/270510</a>
Scopus ID	<a href="https://www.scopus.com/authid/detail.uri?authorId=59410862300">https://www.scopus.com/authid/detail.uri?authorId=59410862300</a>
Professional Webpage (if any)	

### **Educational Qualifications:**

Ph.D	Presidency University, Bangalore	India	Pursuing
MTech	MSRIT under VTU, Belgaum	India	2010
BE	KIT , under VTU, Belgaum	India	2004

### **Areas of Research:**

RF amplifier , wireless communication using EDA tool

### **Brief Profile:**

Presently working as Assistant Professor in Department of Electronics & Communication and Engineering, Cambridge Institute of Technology-KR Puram, Bangalore. She has received her B.E. and M.tech Degree in Digital Communication Engineering from MSRIT, Bangalore and pursuing PHD at Presidency University. She has 16 years of teaching experience and her research interests include Digital Communication, Wireless

communication, Digital Electronics, VLSI, and Computer networks. She is a member of Professional Bodies like ISTE, IEEE, etc. She has published 10 research papers in peer reviewed /Scopus/UGC listed international/national journals. She has published 05 patents and has authored one book, one lab manual published by Sapna publications and two book chapters. She has coordinated many Guest Lectures, Workshops, Academic programs, and organizing committees for conferences and FDPs.

**Setting up labs:** *INTEL FPGA Academic programme by INTEL, Bangalore*

**Guiding students at various levels (BE, MTech and PhD):** Guided many UG projects like Real time sign language interpretation using Computer Vision, hands free PC control using Eye movement, Enhancement of image using Verilog & Matlab, Local and Remote Controlled Robotic Arm, Attendance System using RFID, Metal Detector Robo Car using Node MCU, Traffic Prediction using Machine Learning, IOT based patient Health Monitoring system etc.

**Awards/Achievements/Others:** Received Best Paper Award in IEEE International Conference held at Presidency University during March 15<sup>th</sup> -16<sup>th</sup> 2024 for the paper “LoRawan – The technology of Sewage Monitoring and Alerting system”.

**Courses Taught:** Digital Communication, Information theory & coding, Digital system design using Verilog, Hardware description language, Wireless communication, Digital Electronics, VLSI etc.

**Publications/Patents:**

Publications	<ul style="list-style-type: none"> <li>• Presented &amp; published a paper on “A Review on Advanced CMOS High Frequency Class E RF Power Amplifier in TSMC 90nm For 6G Wireless Networks” in a scopus indexed journal, Grenze International Journal of Engineering and Technology, June Issue.</li> <li>• Presented &amp; Published a paper on Implementation of Local &amp; Remote Controlled Robotic Arm” in a scopus indexed journal, Grenze International Journal of Engineering and Technology, June Issue.</li> <li>• Presented and Received Best Paper Award in IEEE International Conference held at Presidency University during March 15<sup>th</sup> -16<sup>th</sup> 2024 for the paper “LoRawan – The technology of Sewage Monitoring and Alerting system”.</li> <li>• Published a paper in International Conference on ENHANCEMENT OF IMAGE USING VERILOG &amp; MATLAB in International Research Journal Of Modernization in Engineering Technology and Science(IJREMETS) on 12-07-23 , <a href="https://www.doi.org/10.56726/IRJMETS43063">https://www.doi.org/10.56726/IRJMETS43063</a>, Impact Factor- 7.868, e-ISSN: 2582-5208</li> <li>• Presented a paper on Published a paper in International Conference on “Local and Remote Controlled Robotic Arm” in International Conferences on advances in Engineering and technology for Intelligent systems at Dayanand Sagar College of Engineering between <b>16<sup>th</sup> to 18<sup>th</sup> May 2023.</b></li> <li>• Presented a paper on Optical Flow based object Movement tracking in IEEE International Conference on Nano composites for Aerospace applications held at</li> </ul>
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CITECH, Bangalore during 2<sup>nd</sup> Feb to 4<sup>th</sup> Feb 2023.

- Published a paper in International Conference on “Automated Smart Robot Library Management System in IRJMETS during July2020. Volume: 02/Issue: 07/July-2020, e-ISSN: 2582-5208
- Presented a paper on “Attendance System using RFID” in the National conference on Emerging trends in Engineering (NCETE-2021) during July 2021.
- Presented a paper on “Metal Detector Robo Car using Node MCU ”in the National conference on Emerging trends in Engineering (NCETE-2021) during July 2021.
- Presented a paper on “Traffic Prediction using Machine Learning ”in the National conference on Emerging trends in Engineering (NCETE-2021) during July 2021.
- Presented a paper on “Introduction of Artificial Intelligence in Power distributed Systems” in the National conference on Emerging trends in Engineering (NCETE-2021) during July 2021.
- Presented a paper on “Study of Edge Computing with Deep Learning” in the National conference on Emerging trends in Engineering (NCETE-2021) during July 2021.
- Presented a paper on “IOT based patient Health Monitoring system” in the National conference on Emerging trends in Engineering (NCETE-2021) during July 2021.
- ”Presented a paper on “Sixth Sense Device Gestural Interface using MATLAB” in National conference IJMTE-2019 held at Cambridge Institute of Technology, Bangalore on 3<sup>rd</sup> May 2019.
- Presented a paper on “LI-FI Technology” in National conference RACIT-2018 at Akshaya Institute of Technology held on 20<sup>th</sup> April 2018.
- Participated in 3<sup>rd</sup> International Conference on Convergent Innovative Technologies ICCIT-2016 at Cambridge Institute of Technology, Bangalore held on 20<sup>th</sup> May 2016.- ISSN:2319-6890.
- Presented a National Level paper on “Concatenative Speech Synthesis Model” at Maratha Vidya Prasarak Samaj Karmaveer Adv. Baburao Ganpatrao Thakare College Of Engineering Nashik held on 25th to 27th March 2010 and it has been published in the conference proceedings.

Patents

SI No .	Application no.	Status(Published/Granted)	Inventors	Title	Date (Published/Granted)
1.	2022410753 94	Published	Prof. Chaithra S	Smart farming for efficient Crop	06-01-2023
2.	2022410753 97	Published	Prof. Chaithra S & Prof. Raghunatha Reddy	AI based automatic dispenser for smart cities.	06-01-2023
3.	2023410303 56	Published	Prof. Chaithra	System and	2023

			S	method of local and remote controlled Robotic Arm		
	4.	202341034746	Published	Prof. Chaithra S	Floor Cleaning Robot	2023
	5.	202211015286	Published	Prof. Chaithra S	IOT and Block chain based detection and prevention of rice plant disease using image processing	1-04-2022
Book/Book Chapters	<ul style="list-style-type: none"> <li>Published a Book chapter on "IOT in Communication Technologies" during August 2023 in IIP series</li> <li>Authored &amp; Published "Reference Manual for HDL Lab" for IV semester ECE and TCE and it has been published by Sapna Publications in the month of March 2009.</li> </ul>					

