CURRICULUM VITAE

Mrs. KIRTEE KISHOR PARDESHI JAISWAL

Plot No.38, J.P. Nagar,Bhokardan

Dist: Jalna, (431-114)

Mobile No.:9923516021

Email: kirteepardeshi@gmail.com

kirtee.pardeshi@mit.asia

Objective: Seeking a challenging environment that encourages learning and creativity, which provides exposure to new ideas and stimulates personal and professional growth**.**

Educational Qualification:

Sr. No.	Name of the Course	Name of the institute/university	Percentage %	Year of passing
1	M.E. (Electronics and Telecommunication)	Pune Institute of Computer Technology, Pune	86.7	2019
2	B.Tech(Electronics and Telecommunication)	Dr.Babasaheb Ambedkar Technological University,Lonere	87.6	2017
3	H.S.C.	R.B.Mone Junior college,Goregaon	78.17	2012
4	S.S.C.	N.M.Joshi Vidyabhavan, Goregaon	93.45	2010
5	UGC NET Qualified for Assistant Professor	148/300		June 2020
		160/300		December2020 /June 2021
		150/300		December 2023
6	GATE (EC)	37.33/100		2023

Working Experience:

Sr. No.	Name of organization and position	From	To	Years of experience
1	Assistant Professor, Maharashtra Institute of Technology (MIT), Aurangabad	10th June 2023	Till Date	11 Months
1	Research scientist, Society for Applied Microwave Electronics Engineering and Research(SAMEER), R & D of Meity, India, IIT Bombay campus, Mumbai	16th August 2021	8th June 2023	1 Year 10 Months
3	Assistant professor, Dr. Babasaheb Ambedkar Technological University (DBATU), Lonere Raigad	15th January 2021	13th August 2021	8 Months
4	Visiting Teaching Faculty, Ascentis Technopreneur, Balaji nagar, Pune	27th October 2018	10th January 2019	3 Months

MIT Workload Conducted:

Sr. No.	**Programme Name**	**Course conducted**
1	First year B.Tech	Mobile Application Development (Theory+Practicals)
2	Master in Computer Application	Mobile Application Development (Practicals)
3	CSD	Logic Design and Microprocessor (Theory + Practicals)
4	AIDS	Microprocessor and Microcontroller (Practicals)
5	ECE	Android Programming (Theory),Communication Engineering (Practical),Database Management System (Practical),Cloud Computing (Practical)

Key Skills:

-Languages known: C, C++, Java

-Operating system: windows7, windows10 and windows 11

-Knowledge in digital electronics, electromagnetics and optical fiber communication

-Knowledge about various microwave engineering software like AWR, HFSS and MATLAB

-Experience of working on NMS, Putty and Cisco packet tracer software

-Antenna and RF circuit design

-Hands-on experience in CST Microwave studio, ADS and Altium

-Data acquisition system controls with STM32CUBE IDE

-Natural language processing with deep learning toolbox

-Hands-on Experience of Mobile Application Development (Android Studio)

Strengths:

-Hard worker and goal oriented

-Willing to learn and adapt to new skills

-Determinate and disciplined

-Good communication skill

Academic Project Undertaken:

- Project Thesis (M.E.): Indian Sign Language Recognition using Deep Learning
- Main Project(B. Tech): Installation, Commission and Testing of SDH Transmission System with Fault Detection
- Community Project: Assistive Tool for Visually Impaired
- Mini Project: Water Level Controller

RF Based Projects done under SAMEER:

- **Microwave applicator for bamboo bending and straightening:**The system is designed to operate at 2.45 GHz (ISM Band) which is one of the band used for industrial microwave heating.The applicator is a rectangular cavity of WR1150 of length 1150 mm excited by four perpendicular rectangular waveguides WR 340 of length 150 mm placed in alternate TE and TM arrangements to reduce mutual coupling. The magnetron is used as a continuous wave microwave source of 5 KW followed by 4 way waveguide power divider with additional 3 auxiliary ports to improve isolation. Applicator is terminated by dummy loads at two ends, which correspond to the use of a combination of corrugated chokes and RF Reflector in practical use.

- **Design and Development of Microwave based Wood Moisture Meter:**The Microwave based moisture meter designed to measure the moisture content and thickness of different types of wood samples based on transmitter-receiver system operating at 5.81GHz ISM band frequency. The

integration of the transceiver system with data acquisition system is carried out with amplitude based calibration.The four different modes are created based on density of wood and accordingly repeatability and accuracy is observed which is dependent on calibration curves.

● **Design and Development of Compact and Cost Effective Microwave based Brix Meter for Sugar Industry:**Accurate measurement of syrup concentration (Brix) at all times during the sugar boiling process is most desirable to produce high quality sugar meeting the ICUMSA standard. This project is aimed to design and develop a compact and cost-effective microwave-based Brix meter for the sugar industry at 5.81GHz. In this method, the microwave signal is radiated into the medium by the transmitter and the receiver collects the attenuated microwaves. The phase shift occurs proportionally to the propagation velocity. With this information the water content can be calculated, from which both the density and total dry matter content can be derived which essentially results in the Brix value in case of sugar syrup.

● **Microwave ablation for cancer treatment:** Microwave antenna is a key element in the microwave ablation system which is responsible for delivering energy in a focused manner to the tumor and its surrounding area.The system is designed with minimally invasive coaxial cable based monopole slot antenna with 1mm outer diameter working at 2.45 GHz.

Vocational Training:

1. Successfully completed vocational training in advanced telecommunication with Regional Telecom Training Centre, Pune from 30/05/ 2016 to 24/06/2016.
2. Successfully completed vocational training with Maharashtra State Electricity Distribution Co. Pvt. Ltd from 1/06/2015 to 15/06/2015

Achievements:

- Qualified UGC NET for Assistant Professor under electronic science three times
- Completed certificate project training course in SDH transmission system RegionalTelecom Training Centre, Pune
- Secured 5th rank in University Level in B.Tech
- Paper published in SSRN through ICCIP 2019 Entitled as 'Recognition of Indian Sign Language For Hearing and Speech Impaired People using Deep Learning'
- Secured second position in SSC and HSC
- Member of IET and IEEE

Personal Profile:

Language known: English, Hindi, Marathi

Date of birth: 28th June 1995

Marital status: Married

Hobbies: Listening FM Radio, Cooking

Declaration:

I hereby declare that all the statements made above are correct and true to the best of my knowledge and belief.

Place: Aurangabad

Date:23/05/2024

Yours faithfully,

Kirtee Kishor Pardeshi