



Mr. Tushar Vaman Kafare

Assistant Professor, Department of E & TC

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OVERVIEW:

Qualifications: ME (Electronics and Telecommunication), BE (Electronics)
Experience: Teaching -14 years
Date of Joining STES: 07/09/2022
Skills and Proficiencies: Python, Machine Learning, Deep Learning, Computer Vision, MATLAB, C, Embedded C.

SIGNIFICANT ACHIEVEMENTS:

- Received Digital Teacher award from ICT Academy.
- University Rank 6th in Graduation
- Best Paper Award in 2024 International Conference on Machine learning, Jaipur, India, march 2024.

AREA OF EXPERTISE /RESEARCH INTERESTS:

- Machine learning

NUMBER OF STUDENTS GUIDED:

- PG – 00 , UG – 20+ Groups

RESEARCH PULICATIONS:

Publication Summary:

Scopus/ SCI-03
International Journal: 18
Conference : 04
h-index : 02
i10 index : 00

<https://scholar.google.com/citations?user=23N1L-QAAAAJ&hl=en&oi=ao>

RESEARCH WORK:

Phd Research Work: (Thesis submitted)

- The main objective of the research work is analysis on plant disease analysis using machine learning model. Image processing based APIJS algorithms. In this work, a comprehensive study on plant

disease like grapes and apple plant is carried out for fungal diseases like black root, early blight late blight. Through this work, the following objectives has been achieved:

1. Processing on camera images for noise removal.
 2. Effective segmentation for image representation using APIJS
 3. Disease identification by double convolution(DCA-CNN)
- Research work may be very useful as an assistive aid to researchers in agricultural field

NOTABLE GUIDED PROJECTS:

UG projects:

- Plant Disease diagnostic (AY 2023-24) Sponsored by Edutech software Pvt. Ltd, Pune.
- Robotic arm controller (Ongoing AY 2024-25 UG).

RESOURCE PERSON TO INDUSTRY/ACADEMIA:

- Resource person for Faculty Development program of subject “PLC’s SCADA and Automation”, Organized by BOS, Electronics and Telecommunication, SPPU Pune.
- Resource Person for Advance trends in microcontrollers Third year students, BSIOTR, Wagholi.
- Resource Person for Inculcate Communication Skill for final year students, Purogami Shikshan Mandal, Khatav, Satara.
- Resource Person for Embedded system and recent trends for final year Electronics and Telecommunication diploma students at Government Polytechnic, Awasari.
- Resource Person for “Embedded system and recent trends” for final year computer diploma students at Bhivarabai Sawant Polytechnic, Wagholi.
- Resource Person for “Embedded system Workshop” for final year Electronics and Telecommunication Engineering students at Dhakne Polytechnic Shevgaon.
- Resource Person for “Recent trends in Microcontrollers” for final year Electronics and Telecommunication Engineering students at Sahyadrivally College of Engineering, Rajuri.
- Resource Person for “Microprocessors and Lab practice” for computer Engineering students at Sahyadrivally College of Engineering, Rajuri.

SUBJECTS TAUGHT:

- Digital Electronics
- Information Theory & Coding Techniques
- Computer Organization
- Cloud Computing
- Microcontrollers
- Embedded Processors
- VLSI Design and Technology
- Advanced Microprocessor
- Electrical Circuits

FDP/STTP/SDP/WORKSHOPS ORGANIZED AS A COORDINATOR:

- IETE Innovation 2019: Project competition for Final year Engg. Students
- “Latex” Workshop cum FDP for Faculty members.
- Paper presentation competition (regional, national, state level): 02

- Poster & Project Exhibition: 03
- Blood Donation Camps: 02
- National Service scheme of SPPU, NSS: 2 years Program Officer at Samarth COE, Pune
- Electronics and Telecommunication Engineering Students Association Coordinator: 03 Years
- Department Sports Coordinator: 05 Years
- Drishti online Test Contest in association with Texas University program: 02 Years
- Department News Letters and Magazine head: 04 Years
- Add on Courses on Advancements in Embedded systems
- Worked for MPSC examination.
- Institute Certified NPTEL Course on Microprocessors and Microcontrollers
- Organizer “IPR Awareness Program” in coordination with patent department, India.
- Worked as organizing member in National Conference-NCPC 2024.
- Worked as trainer for PLCs and Automation.

RESPONSIBILITIES HANDLED AT STES/SCOE/DEPT:

Institute Level (SCOE)

- Working as a E cell Department Co-Ordinator of the Institute since April 2022.

Department Level (E&TC)

- ❖ Working as DSE admission coordinator.
- ❖ Member Incubation center
- ❖ Member IIC Cell

DECLARATION:

I hereby declare that all the above information furnished by me are true to the best of my knowledge.

Date: 10 /12/ 2024

Signature