

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus, Satara.
CISCO-TALK MAGAZINE 2023-24



**DEPARTMENT OF
COMPUTER SCIENCE &
ENGINEERING**

Vision of Department:-

To lead in technical, quality education, innovation, research for development of sustainable & inclusive technology for the society.

Mission of Department:-

- **M1** : To create ambience of academic excellence through state of art infrastructure
- **M2** : To create student-centric pedagogy that will lead to employability.
- **M3** : To create a software engineering professional with knowledge of multidisciplinary fields, can provide innovative products & service to society.
- **M4** : To train and motivate the students for lifelong learning, employability, and entrepreneurship

Program Educational Objectives (PEOs)

PEO1: Equipped to analyze and solve industry problems using a strong foundation in engineering sciences and computer science and engineering.

PEO2: Skilled in solving real-world problems in a multidisciplinary environment using modern tools and techniques.

PEO3: Developed into an ethical IT professional who contributes to societal and environmental progress.

Program Specific Outcomes (PSO's)

PSO1 : To be able to give solution in networking, OOP, web development, cloud, IOT on real life application using open source software.

PSO2 : To be able to acquaint with modern trends in industry/research giving novel solution to existing social problems.

Publications

Sr.No	Title of paper	Name of the author/s	ISSN Number
1	Ecosense: Smart Green House Monitoring System	Dr. S.V. Balshetwar, Anand Shinde, Yash D. haddhabe, Raviraj Katkar, Shravan Katkar	2583-6226
2	AI-VERSE: Transformative Coding Education with LLM's	Dr. S.V. Balshetwar, Aman Kadam, Arbaj Pathan, Abhishek Sarakale, Amit Kashid	2583-4819
3	Development of Real-Time Automobile Monitoring System based on IoT and Cloud	S. V. Balshetwa, Shreyash Dude, Nishant Bodare, Om Kadam	3048-6602
4	Analysis of machine learning based intrusion detection system	Dasganu Hakke, Aniket Dixit, Thorat S.B.	0039-2049
5	Soldier Health & Position Tracking System	Sakshi Shinde, Ajinkya Chavan, Nikita Nikam, Aishwarya Ghorpade, Najiya Mulani, Suraj Nalawade	ISSN:0970-2555
6	A Novel Placement Prediction System	Chinmani Adhav, Sanika Pol, Gayatri Shinde, Pranali Bhanage, Kajal Rathod, Dasganu Hakke	e-ISSN: 3048-6610
7	Nurture Nest-Smart Cradle System	S.R.Nalawade, Pratik Pawar, Prachi Pawar, Revati Pandit	2583-7834
8	Intellichat: Empowering Meaningful Conversations with AI	Anand Shinde, Yash Dhabdhabe, Raviraj Katkar, Suraj Rajaram Nalawade	2583-4819
9	Performance evaluation of machine learning -based intrusion detection using UNSW-NB15 and CICIDS2017 datasets	Dasganu Hakke, Aniket Dixit, Thorat S.B.	10001-2400

Research

Sr. No.	Title	Inventor's Name	Patent Number
1	Centralized Enterprise Resource Planning Device	Dr. S.V. Balshetwar	149410
2	Culinary Operation Controlling Devices	Dr. S.V. Balshetwar	165321
3	Design And Progress Of Reversible Data Hiding for Improved security in Data Transmission	Dr.Suraj R.Nalawade	202321055625 A
4	IOT Based Smart Classroom Attendance System in E-learning Application	Dr.Suraj R.Nalawade	202321072118 A
5	Guard Health Monitoring Device	Dr.Suraj R.Nalawade	407910-001

Congratulations!

Sr. No	Students Name	Title of Activity	Prize
1	Raviraj Katkar, Anand Shinde, Yash Dhobdhabe, Shravani Katkar	Project Name-ECOSENSE: Smart Green House	Best Project of the Year
2	Nikhita Nikam, Najiya Mulani, Sakshi Shinde, Aishwarya Ghorpade, Ajinkya Chavan	Project Name-Soldier health monitoring & Position tracking system	Best Project of the Year
3	Satyajeet Jagtap	NPTEL -Fundamental Algorithms : Design and Analysis	Completed NPTEL Online Certification
4	Omkar Shinde	NPTEL -Fundamental Algorithms : Design and Analysis	Completed NPTEL Online Certification
5	Ganesh Rane	NPTEL -Programming, Data Structure and algorithm using Python	Completed NPTEL Online Certification

Congratulations!

6	Mangesh Chavan	NPTEL -C Programming and Assembly Language	Completed NPTEL Online Certification
7	Suraj Gadadare	NPTEL -Programming in JAVA	Completed NPTEL Online Certification
8	Shreyash Dude	State Level Dnyanavishkar-2024	3rd Rank in State Level Research Paper Presentation
9	Kunal Pharande	State Level Dnyanavishkar-2024	3rd Rank in State Level Research Paper Presentation
10	Rohan Gaikwad	State Level Yashotech Fest 2024	First Prize in State Level Quiz Competition

Wireless Digital Notice Board



These days, take-out notice boards are crucial in institutions, organizations, and public spaces like train stations, bus stops, and clinics. But to utilize the paper takes note stacked on a take note board could be a time takingand costly handle and there's wastage parcel of time, paper and work. The receiver uses an inexpensive Arduino Unomicrocontroller that has been designed to receive and show messages on an LCD display. Rather than writing noticesby hand on a notice board, the authorized user can talk, and their voice message is transmitted. Bluetooth device andshown on the LCD panel. In this project, we are utilizing the most adaptable and effective speech recognition method available: the Hidden Markov Model (HMM). After the speech is recognized, it is sampled and processed to identify it as verbalized text. The project consists of a 32-bit ARM based microcontroller LPC2148, GSM SIM900 module, an LCD, a motor and an android application for user interface with the hardware for In order to facilitate Bluetoothand Wi-Fi connection between Android-based PDAs and remote wireless display boards, Android-based application are utilized.-**Rutuja Pise (BTech), Sakshi Devkule (BTech), Mansi Yadav (BTech), Aniket Shirke (BTech).**

Enhanced Women Security System



This project proposes an IoT-based women's security system that combines voice activation, camera surveillance, heart rate monitoring, and a panic button to assure total safety. The system's core hub coordinates the smooth operation of its components, allowing for hands-free contact via voice commands to initiate alarms and orders. Real-time camera surveillance provides remote monitoring by capturing suspicious activity, while a heart rate sensor identifies physiological irregularities that indicate distress. A panic button initiates an urgent emergency reaction by initiating predetermined protocols that notify authorized contacts or authorities of the user's location and live audio-video feed. The IoT design enables remote access and management using mobile apps or web interfaces, allowing users to modify security settings and receive quick notifications from anywhere. By combining these innovative technologies, the system intends to provide women with a proactive and efficient method of improving their safety and peace of mind in a variety of settings.-**Ankita Phalke (BTech), Sanjana Jagdale (BTech), Divya Chikodi (BTech)**



Women's Safety System and Defence Mechanism

The right to be free from abuse, harassment, and discrimination applies to women. Women may achieve their full potential as individuals and contributors to the workforce, communities, and economies by removing the barriers created by unsafe environments. However, according to the World Health Organization, one in three (35%) women worldwide have encountered non-partner sexual assault or intimate relationship abuse in their lives. This study defines a device for women's safety purposes by GSM to safeguard women on their own. This device suggests a quick response mechanism that supports women in inconvenient situations. She only needs to click the button to warn a few specified numbers and sound the alarm when someone is harassing her. Additionally, there is an emergency switch that, when pressed, activates a shock generator to launch a defense. This device aims to make women feel secure-**Archana Ghadge (BTech)** ,**Sakshi Chavan (BTech)**, **Sakshi Rajput (BTech)** ,**Aishwarya Katkar (BTech)**



Responsible:AI

The rapid advancement of technology such as Artificial Intelligence (AI) has brought about transformative changes in various sectors, which has led to rise in significant concerns about ethical, legal, social, and technical implications. Responsible AI development has emerged as a crucial model to address these concerns, emphasizing the ethical use of AI systems in collaboration with human values. This paper synthesizes existing literature on responsible AI, examining key challenges, emerging frameworks, and future directions. It delves into ethical considerations such as fairness, transparency, and accountability, alongside legal and regulatory frameworks governing AI deployment. Societal implications, including impacts on employment and human rights, are also discussed, as well as technical challenges such as bias mitigation and privacy preservation. Drawing upon interdisciplinary perspectives, this highlights the need for collaborative efforts among stakeholders to ensure responsible AI development and deployment. Furthermore, it identifies future research directions aimed for addressing existing gaps and advancing the responsible use of AI technologies-**Karina Rathod (TY)**,**Sakshi Kokate (TY)**,**Kiran Salunkhe (TY)**,**Rukkaiya Jamadar (TY)**

Activities



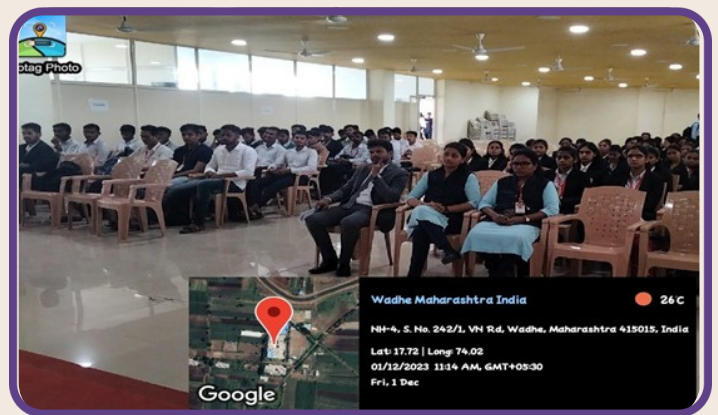
Engineers Day-ICT classroom and ML lab inauguration (15/09/2023)



Webinar on “Applications of design thinking” (06/10/2023)



Parents Meet in CSE Dept (28/10/2023)



Interactive session and hands on training program on “Power of Data and cloud infrastructure” (01/12/2023)



Industrial Visit at PHN Technologies Pvt. Ltd. on 14/03/2024



Dandiya Celebration (25/10/2023)

Facilities



Computer Lab



Library



Digital Classroom



Hostel



Transportation



Wi-Fi Campus

Editor Team

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