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	Fake news detection in social media based on sentiment analysis using classifier techniques	Sarita V Balshetwar Abhilash RS &, Dani Jermisha R	1573-7721
2	A Review on AI based Restaurant Management System	Mr. Abhishek Korde, Ms. Aditi Loni, Ms. Vaibhavi Deshpande, Ms. Dhanashri Rajput, Ms. Rutuja Chavan, Mrs. Dr. S. V. Balshetwar.	ISBN 978-93-91535-44-5
3	A Review On Ethical Maze In AI Development	Ms. Karina V Rathod, Dr. S V Balshetwar	978-81-961931-1-9
4	A Review On Sorting Techniques Visualizer	Dr.S.V.Balshetwar, Muskan Hanif Shaikh	978-93-91535-44-5
5	A Review on Blue Eye Technology	Ms. Archana Ghadage, Dr S V Balshetwar	978-81-961931-0-2
6	A Review paper on social distance detection using deep learning	K P Jagtap, Mangesh Deshmukh, Raj shinde, Abhishek kale, Kedar shikare	ISSN online 2582-7898
7	Notification system using cloud	K P Jagtap, Pawar Shubham, Ithape Prasanna, Taralekar Shubham, Bagwan Akib,	2582-3930

Publications

Sr. No.	Title of paper	Name of the author/s	ISSN Number
8	Disease Prediction System	Shikalgar A. A., Tanuja D. Supekar, Aishwarya A. Shinde, Arpita S. Phadtare, Shraddha S. Potekar	ISSN: 2582-3930
9	QUIZZLES: Test Your Skills and Become a Master	Himgouri Tapase, Miss. Neha Bobade, Mr. Shrijeet Desai and Miss. Shruti Kesarkar	ISSN 0973-4562
10	NFT Music Marketplace	Tapase H O, Bhoite Kshitij Sujit, Pawar Amardeep Vivek, Soni Ayush Lalchand, Momin Huzefa Ajamuddin	ISSN: 2582-3932
11	Scanning & Detection of Virus Using Cryptographic Hash function	Himgouri O.Tapase, Bhavika N. Oswal, Kajal N. Katkar, Rutuja A. More, Ruturaj R. Jadhav	e-ISSN: 2582-5210
12	Criminal Detection Through Facial Recognition	Nalawade Suraj, Shinde Ayush Sanjay, Ghorpade Utkarsh kishor, Navgane Aditya Suresh, Gaikwad Anuj Ajit,	ISSN: 2582-3932

Research

Sr. No.	Title	Inventor's Name	Patent Number
1	Secret Key Management For Distributed Wireless Sensor Network	Mrs.Mandhare R.M	202211053605 A
2	Online Waste Management System	Mrs.H.O.Tapase	133836

Achievements

Congratulations!

Sr. No	Students Name	Title of Activity	Prize
1	Abhishek Korde,Dhanashree Rajput,Vaibhavi Deshpande,Rutuja Chavan,Aditi Loni	Project Name-AI based Restaurant Management System	Best Project of the Year, Won 1st prize in 10th National conference NCETET-2023 at Bharati Vidyapeeths college of engineering Kolhapur
2	Shaikh Muskan,Kumbhar Aishwarya,Mane Rutuja,Palande Aarti	Project Name-Sorting Visualizer using Javascript	Best Project of the Year
3	Patel Vipul	National level YASHOTECHFEST 2K23	Won 2nd prize for the event poster presentation,Won 2nd prize for the event Bridge Tech
4	Rathod Karina	National level YASHOTECHFEST 2K23	Won 2nd prize for the event Mini Project (Model),Won 3rd prize for the event Paper Presentation
5	Kiran Salunkhe	National level YASHOTECHFEST 2K23	Won 3rd prize for the event Paper Presentation
6	Ankita Phalke, Archna Ghadage, Sakshi Rajput	Cummins Scholarship	Awarded a Cummins Scholarship

Artificial Intelligence (AI) and Machine Learning (ML)

The evolution of AI has reached remarkable milestones, especially with the advent of generative models like GPT-4 and DALL-E. These models are capable of generating human-like text, images, and code, marking significant progress in natural language processing and image synthesis. AI applications now extend to diagnostics in healthcare, financial fraud detection, and automated content creation. In the automotive industry, AI models power autonomous vehicles, using vast datasets to interpret real-world environments and make predictive decisions. Research in reinforcement learning and transformer-based architectures has accelerated, contributing to more adaptive, context-aware AI systems that can be applied in complex, real-world scenarios.-**Abhishek Kale (Btech)**

A Review on AI based Restaurant Management System

There has been vast growth in the Food Industry with help of leading technologies. The Hotel industry is one of the growing sectors of world. This system is generally made for Time saving purpose. Pre Booking Table and ordering food is main objective of this system. When it comes to food and dining, people always look for quality and variety of food and restaurants. In traditional booking customer used to make a phone call and paper work to book table. But with this system, user can make his order within minutes on his finger tips. This system not only saves time but also gives chance to explore several café/restaurants in town with online as well offline payment methods. Customer feedback is must so; this system also has feedback section where people can give there review on food and experience.

REVIEW ON SORTING TECHNIQUES VISUALIZER

Data structure and algorithms (DSA) is important field of Computer Science and Engineering. Data structure related concepts are complicated to understand for learners so this project performs visualization of algorithms. It helpful for students to understand that how actually sorting methods work. Methods are like Bubble sort, Selection sort, Insertion sort, Merge sort and so on. In visualization data can be represented by Bar graph. Animation tool shows sorted data and unsorted data with different colors. Colors change after sorting techniques.This platform helps to improve theoretical concept regarding Data structure and algorithm.

One-Week Online FDP on "Current Trends in Information Technology Sector" (20th to 24th Feb 2023 (5 days))

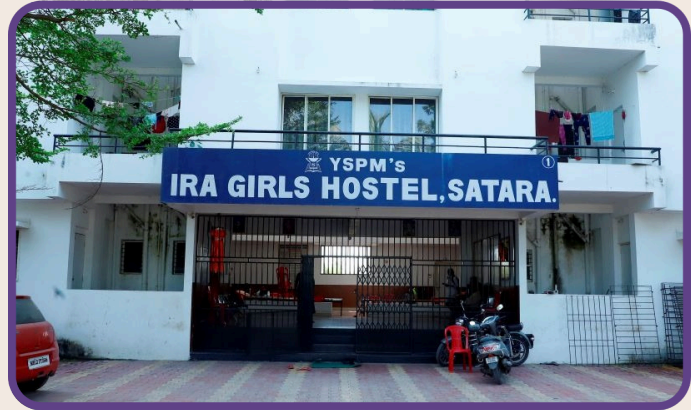**Awareness Program on Intellectual Property Rights (IPR) on 26/04/2023**

Facilities

Computer Lab

Library

Digital Classroom

Hostel

Transportation

Wi-Fi Campus