Shri. ShamraoPatil (Yadravkar) Educational & Charitable Trust's
Sharad Institute of Technology, College of Engineering Yadrav- (Ichalkaranji)
(An Autonomous Institute)
(Approved by AICTE, New Delhi, Recognized by Government of Maharashtra & Affiliated to DBATU, Lonere)
NBA Accredited Programmes, NAAC 'A-Grade Institution, ISO 9001:2015 Certified Institute, Recognized u/s 2(f) and 12(B) of the UGC Act 1956

ShriShamraoPatil (Yadravkar) Educational & Charitable Trust's
SHARAD INSTITUTE OF TECHNOLOGY
COLLEGE OF ENGINEERING

Yadav (Ichalkaranji)

NBA Accredited Programmes
NAAC 'A' Grade Institution
Affiliated to DBATU, Lonere
An ISO 9001:2015 Certified Institute

AN AUTONOMOUS INSTITUTE

# Frontiers of ECE

**College Vision**

- To be a center of excellence in technical education by using cutting-edge technology that produces competent engineers of today and tomorrow to serve society.

**College Mission**

- To impart quality education by implementing state-of-the-art teaching-learning methods to enrich the academic competency, credibility and integrity of the students.
- To facilitate a conducive ambience and infrastructure to develop professional skills and nurture innovation in students.
- To inculcate sensitivity towards society, respect for environment and promote high standards of ethics.

**Department Vision**

- To be a centre of excellence in Electronics & Computer engineering education to prepare professionally competent engineers with lifelong learning attitudes for the accomplishment of ever-growing needs of society

**Department Mission**

- To prepare technically and professionally competent engineers by imparting quality education through effective teaching learning methodologies and providing stimulating environment for research and innovation.
- To develop professional skills and right attitude in students that will help them to succeed and progress in their personal and professional career.
- To imbibe moral and ethical values in students with concern to society and environment

Dr.Pravinkumar S. Patil (Associate Professor & Head of Department)
B.E., ME, Ph.D.

"Success and failures are just stepping stones in education. In the end, knowledge stands as prime, leaving everything else immaterial" It gives me an excellent opportunity to unveil the Fifteen issues of the Newsletter of the Electronics and Telecommunication Department. Within the pages, everyone will find news related to various activities of the Department and student association with contributions of the faculty members and students. Through a nice blend of coursework and projects, the Department endows students to apply science, mathematics, and engineering knowledge to work effectively in multidisciplinary teams, provide leadership and technical expertise, and practice engineering with ethical approaches and concern for society and the environment. Our curriculum undergoes regular revisions to ensure local relevance with a global outlook. I hope everyone will find this exciting issue exposed to students and faculties.

**From Faculty Editor Desk:**

**Mrs B. K. Jagtap (Editor):**



Dear reader,

We are pleased to present the E&C Department NewsLetter **"Frontier of ECE",** ECE Messengers. The successful compilation of this newsletter has been made possible through the commendable cooperation and dedicated efforts of the co-coordinators, Heads of Departments, and faculty members, whose contributions are sincerely acknowledged. This issue systematically documents the notable academic, research, and co-curricular achievements of the department, faculty, and students. Furthermore, it provides comprehensive coverage of campus developments, institutional events, and the placement scenario. I gratefully acknowledge the invaluable support and encouragement received, both directly and indirectly, which ensured the timely publication of this NewsLetter.

**From the Student Editors desk:**

Dear readers,

The Department of Electronics and Communication Engineering at SITCOE has consistently demonstrated its ability to successfully meet academic and professional challenges. It is a matter of immense pleasure and pride for us to serve as Student Editors of this issue of ECE Messengers. We are grateful for the opportunity and the confidence reposed in us, which enabled us to contribute meaningfully to the preparation and publication of this newsletter.

**Pratiksha Pintu Chaugule**
**Student Editors**
**SY(ECE)**

**Students Co-ordinator**

**Patil Yashvordhan Damodar**
**(President)**
**(TY ECE)**

**Pore Ruturaj Abhijeet**

**(Vice-President)**

# Contents:

**Program Educational Objectives (PEOs)**

- Acquire fundamental knowledge of electronics, computer Science Engineering to design, develop new ideas and solve real-life problem.

- Excel in professional carrier by applying recent technologies & skills as electronics & computer engineering field evolves.

- Possess leadership qualities, effective communication skills & lifelong learning attitude to work efficiently with diverse teams, corporate, IT industry promoting appropriate practices & sense of social responsibility.

## 2. Faculty Development Programme:

| Sr.No | Name of Workshop Organized | Date | Source of Filling | Target Audience |
|-------|---------------------------|------|-------------------|-----------------|
| 1 | AICTE, ATAL Approved Bridging Research and AI: Methetodological Advances in ML & DL | 10/11/2025 | ATAL Website | Facultiies from AICTE approved colleges, Industrial person. |

**Photos:**

Kolhapur, Maharashtra, India 🇮🇳
P63m+7j2, New Shahupuri, Kolhapur, Maharashtra
416001, India
Lat 16.703115° Long 74.233993°
Friday, 14/11/2025 01:53 PM GMT +05:30



Kolhapur, Maharashtra, India 🇮🇳
Basant Bahar Talkies, Assembly Rd, New
Shahupuri, Kolhapur, Maharashtra 416001, India
Lat 16.703073° Long 74.233736°
Friday, 14/11/2025 12:26 PM GMT +05:30

**Faculty Achievement:**

Faculties from our Department completed STTP, NPTEL Courses , ATAL FDP, Introducing book publication, project participationetc.,activitiessccessfullyto enhance their knowledge and, which is imparted to the students for their technical growth

1. **NPTEL:**

| Sr. No | Name of Faculty | Name of Course | Certificate Type |
|---|---|---|---|
| 1 | Ms.Swati Shreepal Halunde | Technical Communication for Engineers | Elite+silver |
| | | Ethics in Engineering Pracitce | Successfully completed |
| 2 | Mr. K. A. Kupade | Patent Law for Engineers and Scientists | Successfully completed |
| | | Patent Search for Engineers and Lawyers | Successfully completed |
| 3 | Mr Rahul Rajendra Joshi | POWER ELECTRONICS WITH WIDE BAND GAP DEVICES | Elite+silver |
| 4 | Dr. Pravinkumar Sudhakar Patil | Data Science using Python | Elite+silver |
| 5 | Dr Sachin Surendra Gurav | Technical Communication for Engineers | Elite |
| | | Ethics in Engineering Pracitce | Successfully completed |
| 6 | Mrs Madhuri Sachin Mali | Digital Image processing | Elite |
| 7. | Mrs .Bhagyashree K Jagtap | Research Methodology | Elite |

## 2. Paper Published:

| Name of the Author(s) | Title of the Paper | Name of the Journal | Month and Year of publication |
|---|---|---|---|
| Dr S SGurav | Fractal Revolution: Unleashing Multi-Band Power in Compact Patch Antennas for 5G and Beyond | IJBAS | July 2025 |
| Dr S SGurav | School Database Management System Using My SQL | ISTE Online | July 2025 |
| Dr Krishna Muzumder | Dual-Sense Circularly Polarized Quad-Port MIMO RFID Antenna Backed with Electromagnetic Band Gap Structure for Enhanced Axial Ratio and Mutual Coupling Reduction | Wiley | 17 Sept 2025 |
| Ms S SHalunde | Revolutionizing Auscultation: Introducing A Digital Cardio scope | ICAESRTA | June 2025 |

| | | | |
|---|---|---|---|
| | for Enhanced Diagnostic Capabilities. | | |
| Mr T M Diwakar | Automated Detection of Advanced Glaucomatous changes Using Hybrid Imaging Techniques and Ma-chine Learning Algorithms | ICIDS | Nov 2025 |

3. **FDP:**

| Sr. No | Name of Faculty | Name of Course | Certificate Type |
|---|---|---|---|
| 1 | Ms.Swati Shreepal Halunde | Bridging Research and AI: Methetodological Advances in ML & DL | Successfully completed |
| 2 | Mrs .Bhagyashree K Jagtap | Bridging Research and AI: Methetodological Advances in ML & DL | Successfully completed |
| 3 | Ms. Diya Chakraborty | Bridging Research and AI: Methetodological Advances in ML & DL | Successfully completed |

## Professinal Society Activites:

ISTE Activity for Academic Year 2025-26  Sem-I

| Sr. No. | Name of Activity | Target Students | Date of conduction |
|---|---|---|---|
| 1 | Faculty Development program | For Faculty | 10/11/25 to 15/11/25 |
| 2 | How to crack IT Jobs | F.Y. Students | 12/07/2025 |
| 3 | Overseas Education | T.Y. Students | 25/07/2025 |
| 4 | How to Prepare GATE by yourself | T.Y. Students | 04/10/2020 |
| 5 | Data Science and Analytics | BTech | 09/10/2025 |
| 6 | Data Visualization using Powqer BI hands on Practices | BTech | 09/10/25 |
| 7 | Industrial Visit-   Electrosal Hi-Tech Pvt. Ltd | S.Y. Students | 09/09/2025 |
| 8 | Industrial Visit-  KPT Industries Ltd. Shirol | T.Y. Students | 15/09/2025 |
| 9 | VAP- Industrial Automation using PLC and SCADA | S.Y. Students | 18/09/25 to 23/09/25 |
| 10 | VAP- Advanced Embedded system and IOT | BTech | 24/09/25 to 30/09/25 |
| 11 | Impetus | All Students | 13/10/25 |
| 12 | Teacher's Day | All Students | 09/09/25 |

## ECESA details (Electronics & Computer Engineering Student Association):

Electronics & Computer Engineering Student's Association (ECESA) tries to improve the personality of every student. This Association helps them achieve the goal of an intellectual and thinking person which in turn helps them in their academic and extracurricular activities. This society provides them with a platform where they can explore their hidden abilities. It allows them to work in a group of members from all the years.

Impetus 2K25 and Place Master 2K25-Technical events are organized every year with the objective to provide a platform for the students to showcase their talent with a competitive spirit. The event was successful enough to attract as many as 1750 participants from Maharashtra andKarnatakastate. event completed in one day.

## Photos:

**Prize Giving Ceremony:**



Ichalkaranji, Maharashtra, India
Pf4h+vw4, Yadrav, Ichalkaranji, Maharashtra 416121, India
Lat 16.707559° Long 74.479736°
13/10/2025 04:33 PM GMT +05:30



Ichalkaranji, Maharashtra, India
Pf4h+vw4, Yadrav, Ichalkaranji, Maharashtra 416121, India
Lat 16.707587° Long 74.479733°
13/10/2025 04:31 PM GMT +05:30

Ichalkaranji, Maharashtra, India
Pf4h+vw4, Yadrav, Ichalkaranji, Maharashtra 416121, India
Lat 16.70756° Long 74.479735°
13/10/2025 04:33 PM GMT +05:30



Ichalkaranji, Maharashtra, India
Pf4h+vw4, Yadrav, Ichalkaranji, Maharashtra 416121, India
Lat 16.707574° Long 74.479729°
13/10/2025 04:30 PM GMT +05:30

**Guru Purnima:**

Ichalkaranji, Maharashtra, India
Pf4h+vw4, Yadrav, Ichalkaranji, Maharashtra 416121, India
Lat 16.707578° Long 74.479738°
10/07/2025 01:18 PM GMT +05:30

**Teacher's Day:**



PF4H+VW4, Yadrav, Ichalkaranji, Maharashtra 416121,
India,
Lat: 16.707557, Long: 74.479738
04 Sep, 25, 03:10 PM, Thursday

## Industrial-visits:

The Department organizes Virtual industrial visits. The excursions and industrial visits are for the students, which are relevant to the stream of study of the program.

### Industrial Visit Conducted (A.Y-2024-25, SEM-I)

| Sr. No. | Name | Class | Conduction Date | Address | Total student | Visited Faculty |
|---|---|---|---|---|---|---|
| 1 | Electrosal Hi-Tech Pvt. Ltd | SY(A,B) | 09/09/2025 | Shirpewadi Nipani | 70 | Ms.S.S.Halunde Ms.B.K.Jagtap Mr. S. S. Gurav Mr. T. M. Diwakar |
| 2 | KPT Industries Ltd. Shirol | TY | 15/09/2025 | Kharadi Pune | 37 | Ms.M. S. Mali Mr. K. A. Kupade Mr. T. M. Diwakar Mrs. B. K. Jagtap |

## Photos:

## 1. Electrosal Hi-Tech Pvt. Ltd:

Belagavi,Karnataka,India
Ichalkaranji Sangli Road, Nippani, Belagavi,
Karnataka 591237, India
Lat 16.444340, Long 74.384468
09/09/2025 11:52 AM GMT+05:30
Note : Captured by GPS Map Camera

## 2. KPT Industries Ltd. Shirol:

SHREE TECH,GAT-180,CHH SHAHU INDUSTRIAL
ESTATE, Agar Bhag, Industrial Estate Area, Jaysingpur,
Lat: 16.765598, Long: 74.579764
19 Sep, 25, 03:18 PM, Friday

23 NE

# Guest Lecture Summary/Student Enrichment Program

The modern education system has made guest lecturers an essential part of their learning strategies. Having guest speakers enhances the educational experience of the students. Moreover, it is an excellent way for the students to get maximum exposure.Keeping this aim in mind Electronics and Telecommunication Engineering department organizes various guest lectures.

**Guest Lecture Summary of the Academic year 2025-26 SEM-I:**

| Sr. No. | Topic for Expert Talk | Expert Name & Designation | Date of Expert Talk | Class | No.of Beneficiaries |
|---|---|---|---|---|---|
| 1 | How to crack IT Jobs | Mr. Aman Kumar SDE, Apple | 12/07/2025 | FY | 92 |
| 2 | Overseas Education | Ms. Zainab Qureshi Marketing Head | 25/07/2025 | TY | 40 |
| 3 | How to Prepare GATE by yourself | Mr. Bajarang Shankar Kamble, Senior Broadcast Engineer, All India Radio Akashvani kolhapur | 04/10/2020 | TY | 75 |
| 4 | Data Science and Analytics | Mr. Premkumar ramesh Mahajan, CEO and AI Developer | 09/10/2025 | BTech | 110 |
| 5 | Data Visualization using Powqer BI hands on Practices | Mr. Premkumar ramesh Mahajan, CEO and AI Developer | 09/10/2025 | BTech | 110 |

**Photos:**

**Value Addition Program:**

Our Department organizes value addition programs for improving the student's technical knowledge.
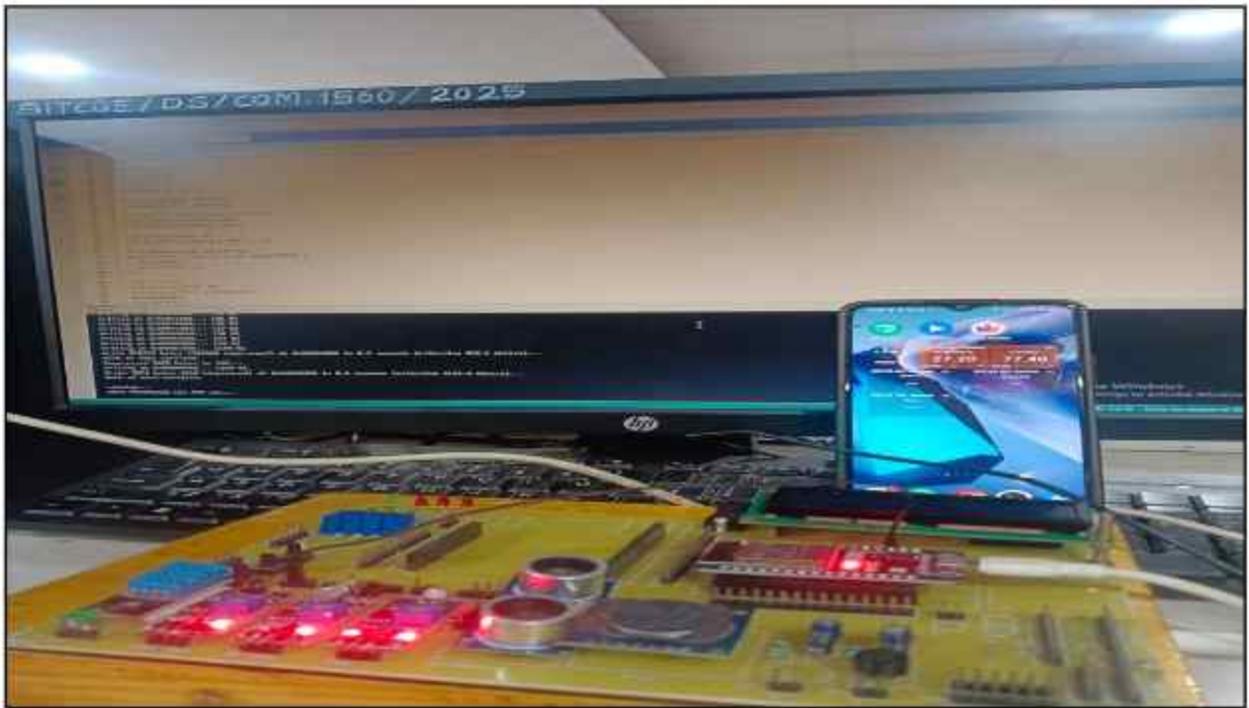
| Sr. No. | Title | Date | Resource Person | Beneficiary |
|---|---|---|---|---|
| 1 | Industrial Automation using PLC and SCADA | 18 sep to 23 sep 2025 | | SY A & B |
| 2 | Advanced Embedded system and IOT | 24 sep to 30 sep 2025 | Umesh Inamdar, Angel Technohub ltd Kolhapur, Kolhapur. | B.Tech A & B |

## Photos:
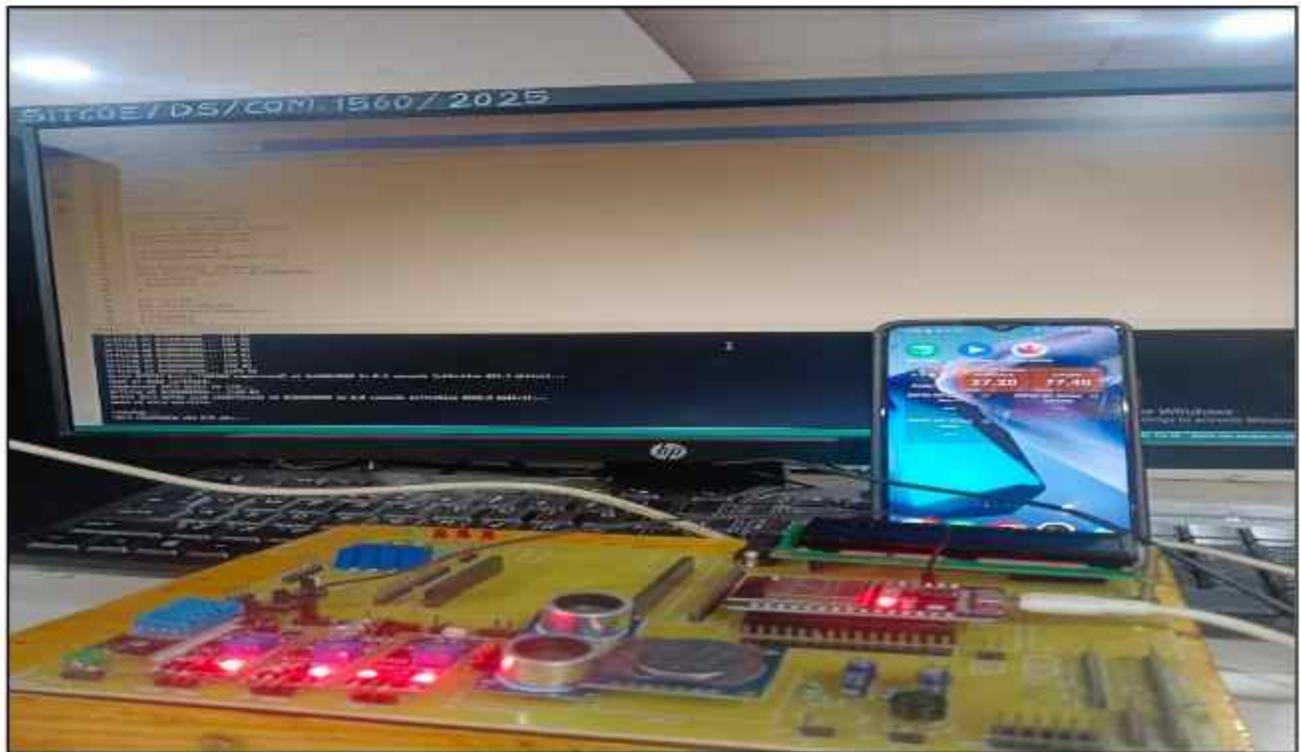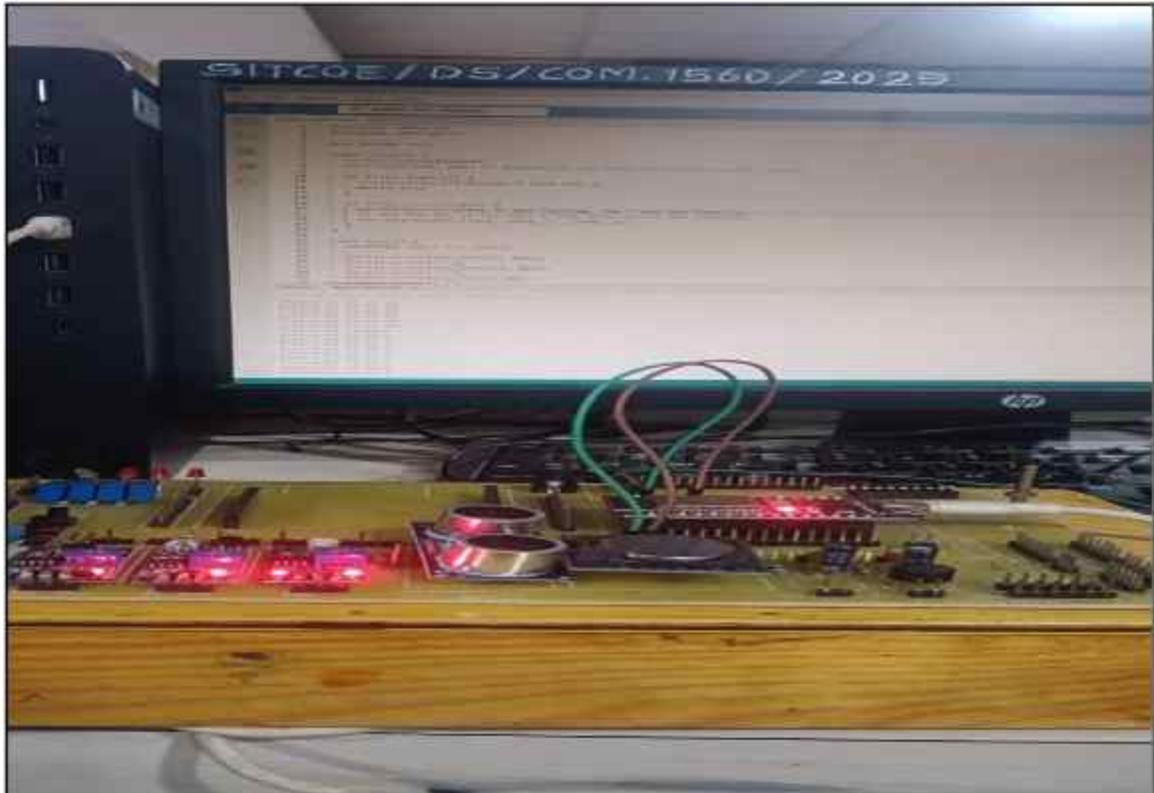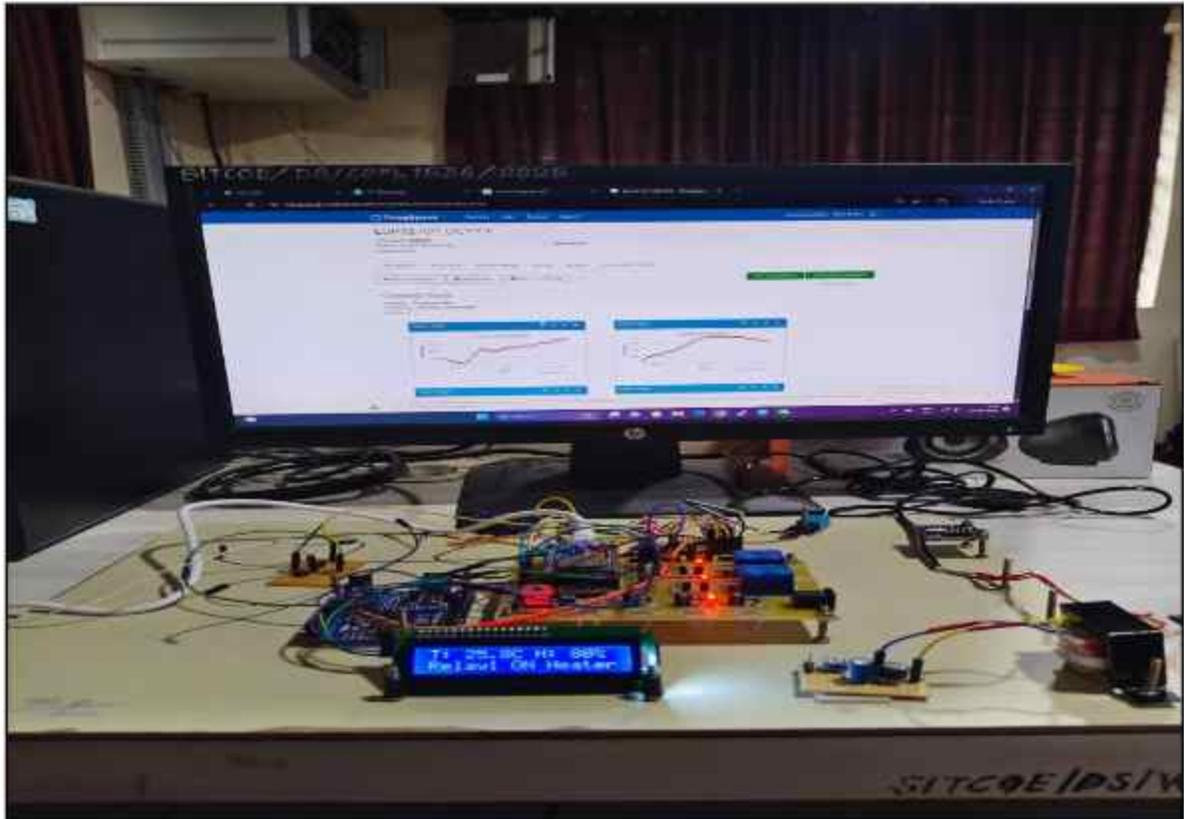
### Innovation Centre:

### Centre of excellence On VLSI and embedded system design

This center is established in Association with ESSCI (Electronic sector skills council of India), IEEE (Institute of Electrical and Electronics Engineers), IESA, and Ministry of Skill Development. The Centerof Excellence "VLSI and Embedded Systems" is the first lab in the entire Maharashtra region and 3rd in India. The main aim of this center is to upgrade the skills among faculties, students, and non-teaching staff by providing appropriate training and to bridge the gap between industry and academia.

### Centre @SITCOE:

In this center of Excellence, the software tools are provided by Mentor Graphics (A Siemens Business) which worth a price of Rs. 60 Crore. Some of the tools and software which are provided are Capital, Board Stations, Hyperlink Advanced, Hyperlink VRC, Source R.Y. Code Bench, etc.

Certification will be certified by the Ministry of Skill Development and ESSCI.

### Benefits to the Students:

- Students will learn updated tools that are currently used in the ESDM sector.
- Students will get placement benefits in the ESDM sector after the successful completion of training.
- Students acquire the knowledge of making the startups.
- Students will be upgraded with the appropriate skill set.

### Activities Conducted in Center of Excellence VLSI AND EMBEDDED SYSTEM DESIGN:

#### 1. Texas Instrument Lab

Exposure to state-of-the-art technology through hands-on learning experience by using Microcontrollers such asMSP430 LAUNCH PADS,TIVA LAUNCH PADS,Educational Booster Pack MKII

#### Objective:

To utilize the launch pad and booster packs kits which are up gradated versions of recent microcontrollers by Electronics & Telecommunication Engineering Students to develop an innovative project. Better employability opportunities for students in embedded system domain companies

As the need for industry base knowledge is the prime requirement for now-a-day Engineering students. Keeping this view in mind SITCOE, Yadrav-IchalkaranjiIs striving hard to give a lot of project-based and industry-based training to studentsby arranging different workshops and training for students.

#### 3. PCB & Wireless Sensor LAB

#### PCB Design:

PCB design and development is one of the important steps in product or system development for all electronics-based gadgets, automobiles, machines, and equipment. The lab setup provides a facility for PCB development required for project work. Wireless Sensors are also made available for developing

various Real-Time applications in various sectors like environmental monitoring, home automation, public safety, and health care systems.

Wireless Sensor networking plays a crucial role in designing and developing various Real-Time Implementation of projects in various sectors like environmental monitoring, home monitoring, and patient monitoring, and various sectors. Students used different modules for their projects.

**Objectives :**

- Give the student &faculty easier access to state-of-the-art electronics technologies.
- Assist with integrating new electronic technologies into research programs.
- Transfer those technologies to the users when economical.
- Provide cradle-to-grave support for ongoing research or transitioning to commercialization

## E-Yantra Lab

*E-Yantra* (stylized as **e-Yantra**) stands as a robotics-focused educational outreach initiative originating from the Department of Computer Science and Engineering at the Indian Institute of Technology, Bombay. Supported by the Ministry of Education, Government of India, under the National Mission on Education through ICT (NMEICT), its primary objective is to supplement prevailing engineering and robotics higher education frameworks globally. The initiative aims to cultivate engineers equipped with the prowess to address local challenges spanning various domains including agriculture, disaster response, defense, manufacturing, home automation, smart cities, and service industries, leveraging technological innovations

**PLACEMENT LIST:**

| Sr. no. | Name of Student | Company Name | Package (LPA) |
|---|---|---|---|
| 1 | Siddharth Deepak upadhye | Trident Tech.Ltd. | 1.9 |
| 2 | Saurabh Arun Chavan | Fox Solutions | 4.2 |
| 3 | Shreya Gore | Paarsh | 4 |
| 4 | Masira Sharikmaslat | Paarsh | 4 |
| 5 | Abhishek partil | Paarsh | 4 |
| 6 | Prashishti Karandikar | Infosys | 6 |
| 7 | Saniya Mujawar | Infosys | 6 |
| 8 | Sanika Upadhye | Infosys | 6 |
| 9 | Uma Anil Kamble | Sedmac Mechatronics Ltd. | 2.9 |
| 10 | Kajal Umesh Kashyap | Sedmac Mechatronics Ltd. | 2.9 |
| 11 | Pranjali Vikas Patil | Sedmac Mechatronics Ltd. | 2.9 |
| 12 | Sanika Rajendra Jankar | Sedmac Mechatronics Ltd. | 2.9 |
| 13 | Shreya Mahaveer Sankannavar | Sedmac Mechatronics Ltd. | 2.9 |
| 14 | Abhishek Sunil Patil | Sedmac Mechatronics Ltd. | 2.9 |
| 15 | Shantanu kamble | Sedmac Mechatronics Ltd. | 2.9 |
| 16 | Prajakta Balasaheb Kokane | Sedmac Mechatronics Ltd. | 2.9 |
| 17 | Shital Babasaheb Awalekar | Sedmac Mechatronics Ltd. | 2.9 |
| 18 | Samarth Dattatray Gondkar | Sedmac Mechatronics Ltd. | 2.9 |
| 19 | Chetan Arun Kate | Sedmac Mechatronics Ltd. | 2.9 |
| 20 | Pranati Jitendra Naik | Sedmac Mechatronics Ltd. | 2.9 |
| 21 | Ankita Jagannath Yadav | Sedmac Mechatronics Ltd. | 2.9 |
| 22 | Digvijay Sunil Patil | Sedmac Mechatronics Ltd. | 2.9 |
| 23 | Rushikesh ShravanKumar Attigiri | Sedmac Mechatronics Ltd. | 2.9 |

| 24 | Sanjana Eknath Patharwat | Sedmac Mechatronics Ltd. | 2.9 |
|---|---|---|---|
| 25 | Akash Balasaheb Savaratkar | Sedmac Mechatronics Ltd. | 2.9 |
| 26 | Virendrasingh Vishnu Ranganekar | Sedmac Mechatronics Ltd. | 2.9 |
| 27 | Suhana Irshad Ambi | Sedmac Mechatronics Ltd. | 2.9 |
| 28 | Alfiya Mahamad Kurne | Sedmac Mechatronics Ltd. | 2.9 |
| 29 | Pranjali Vikas Patil | Sedmac Mechatronics Ltd. | 2.9 |
| 30 | Sanika Balaso Jagtap | Sedmac Mechatronics Ltd. | 2.9 |
| 31 | Shrikrishn Ekanath Sathe | Sedmac Mechatronics Ltd. | 2.9 |
| 32 | Shubham Shrikrishna Patil | Sedmac Mechatronics Ltd. | 2.9 |
| 33 | Poonam Mahadev Chavan | Sedmac Mechatronics Ltd. | 2.9 |
| 34 | Kuber Kumar Barage | Sedmac Mechatronics Ltd. | 2.9 |
| 35 | Dhanshri Chandrakant Sutar | Sedmac Mechatronics Ltd. | 2.9 |
| 36 | Aditya Chandrakant Laykar | Sedmac Mechatronics Ltd. | 2.9 |
| 37 | VIVEK BALASO KAMBLE | Sedmac Mechatronics Ltd. | 2.9 |
| 38 | Pranav Laxman Patil | Sedmac Mechatronics Ltd. | 2.9 |
| 39 | Siddharth Deepak upadhye | Sedmac Mechatronics Ltd. | 2.9 |
| 40 | Akash Balasaheb Savaratkar | Sedmac Mechatronics Ltd. | 2.9 |
| 41 | Deepali Ashok Jadhav | Sedmac Mechatronics Ltd. | 2.9 |
| 42 | Shrikrishn Ekanath Sathe | Sedmac Mechatronics Ltd. | 2.9 |
| 43 | Shubham Shrikrishna Patil | Sedmac Mechatronics Ltd. | 2.9 |
| 44 | Poonam Mahadev Chavan | Sedmac Mechatronics Ltd. | 2.9 |
| 45 | Kuber Kumar Barage | Sedmac Mechatronics Ltd. | 2.9 |
| 46 | Anjali Suresh Patil | Sedmac Mechatronics Ltd. | 2.9 |
| 47 | Dhanshri Chandrakant Sutar | Sedmac Mechatronics Ltd. | 2.9 |
| 48 | Aditya Chandrakant Laykar | Sedmac Mechatronics Ltd. | 2.9 |

| 49 | Shrikrishn Ekanath Sathe | Sedmac Mechatronics Ltd. | 2.9 |
|----|--------------------------|--------------------------|-----|
| 50 | VIVEK BALASO KAMBLE | Sedmac Mechatronics Ltd. | 2.9 |
| 51 | Sanika Balaso Jagtap | Sedmac Mechatronics Ltd. | 2.9 |
| 52 | Pranav Laxman Patil | Sedmac Mechatronics Ltd. | 2.9 |

**Mini Project:-**

We implement project-based Learning. In this, students did various mini-projects using different techniques. With this approach, students actively explore real-world problems and challenges and acquire more profound knowledge. Project-Based Learning is a teaching method in which students gain knowledge and skills by working for an extended period to investigate and respond to an authentic, engaging, and complex question, problem, or challenge.

| Sr No | Class | Total No of Mini Projects |
|-------|-------|---------------------------|
| 1 | SY A | 17 |
| 2 | S.Y. B | 13 |
| 3 | TY A | 16 |
| 4 | T.Y. B | 19 |

SY A

| Sr.no. | Project Name |
|--------|--------------|
| 1 | Watt meter using Arduino |
| 2 | Girls Safety Panic button |
| 3 | Arduino Uno based car detection system |
| 4 | Hand gesture vocalize |
| 5 | Gesture Controlled Robot |
| 6 | Solar tracker system |
| 7 | Chatgpt terminal using ESP32 |
| 8 | Ultrasonic Radar System |
| 9 | Train Track Tracking System |
| 10 | Home Automation on Voice Control |
| 11 | Mini Arduino FPV Drone |
| 12 | Fingerprint Attendance System |
| 13 | Automatic fish food dispenser |
| 14 | Mobile based real time tpms system |
| 15 | Traffic density and signal adjustment system |
| 16 | Metal and non-metal sorting using arduino |
| 17 | Fire Fighting Robot |

S.Y. B

| Sr.no. | Project Name |
|--------|--------------|
| 1 | IoT based motion Tracking RADAR |
| 2 | Bluetooth controlled car |
| 3 | Li-Fi Data Transfer System |
| 4 | Wireless robot control though mobile |
| 5 | Wireless robot control though mobile |

| | |
|---|---|
| 6 | Li-Fi Data Transfer System |
| 7 | Line Follower robot with obstacle detection |
| 8 | Traffic Light Control Simulation |
| 9 | Crop Disese Detector |
| 10 | Smart Car Safety System |
| 11 | IoT based Patient Health Monotoring system |
| 12 | Automatic room occupancy counter |
| 13 | Step Counting usin Arduino |

## TY A

| Sr. no. | Project Name |
|---|---|
| 1 | Smart Pill Box Reminder |
| 2 | Voice controlled smart window system |
| 3 | Smart Hand controlled robot |
| 4 | Air defense System |
| 5 | Gas detection & Prevention System |
| 6 | Frequency meter using Arduino |
| 7 | Women's Safety Device |
| 8 | Solar power efficiency monitoring system |
| 9 | Medi-Safe |
| 10 | HB prediction using Machine Learning |
| 11 | MHT-CET College Predictor |
| 12 | Cost effective mini spot soldering machine |
| 13 | Footstep Energy Generation |
| 14 | Automatic Water Tap System |
| 15 | Industrial Fault detection System |
| 16 | Automatic head light beam control system |

## TY B

| Sr No | Name of project |
|---|---|
| 1 | Floor cleaner robot with wifi control |
| 2 | Home automation using IoT |
| 3 | Smart bridge automatic height adjustment system |
| 4 | Brain MRI images for TumorDetetion by DIP using MATLAB |
| 5 | Smart car parking system using arduino and IR sensor |
| 6 | Message Met using HTML, PHP |

| | |
|---|---|
| 7 | Glucose bottle monitoring system |
| 8 | Object detection &color detection |
| 9 | Traffic signal using Arduino Nano |
| 10 | SMS based door lock / unlock system |
| 11 | Ingeni Bot Driver support for Engineer Scholar |
| 12 | Power efficient mini invertor |
| 13 | Way founder for blind |
| 14 | Blue ring for women safety |
| 15 | Diesease prevention treatment system |
| 16 | Advanced footstop power generation system |
| 17 | RFID based Attendance system |
| 18 | Ultrasonic glasses for blind people |
| 19 | Solar tracking device |

**Faculty of Department:**

| Sr.No. | Name of Faculty | Experience | Area of Specialization |
|---|---|---|---|
| 1 | Dr.Pravin Kumar S. Patil( HOD) | 27 | Wireless communication, signal processing for communication |
| 2 | Dr. Sachin Surendra Gurav | 11 | Video Surveillance |
| 3 | Ms.Madhuri B Mulik | 17.5 | VLSI & Embedded |
| 4 | Mr.Kupade K. A.(Dean, IIPC) | 14 (Teaching) 9.5(Industry) | VLSI System Design |
| 5 | Mr.Diwakar M Tayagar | 12 (Teaching) 0.5 (Industry) | VLSI System Design, Embedded System |
| 8 | Ms.MadhuriS. Mali (Academic Coordinator) | 12.5 (Teaching) 0.5(Industry) | Image Processing |
| 9 | Mr.Vaibhav V .Khandare | 15.5 | Image Processing |
| 10 | Mrs.Shital R. Ghorpade | 17.5 | Image Processing |
| 11 | Mr. Manoj M. Babar | 13.5 (Teaching), 1.5(Industry) | Embedded System |
| 12 | Mrs.Dhanashri M Biradar | 11 (Teaching), 0.5(Industry) | Embedded System |
| 13 | Ms.Halunde Swati S. | 12.5 | Image Processing, Wireless Communication |
| 14 | Mr. U. J. Maisale | 12.5 (Teaching), 0.5(Industry) | Communication |
| 15 | Ms. B. K. Jagtap | 7 | Communication |
| 16 | Jugale Anuja Bhartesh | 5 | Digital Electronics |
| 17 | Mrs. Arbale Jyoti Ajay | 4 1 | Digital Electronics & Microcontoller |
| 18 | Mrs. Magdum Anjali Rohit | 5 | Microprocessor (8085) & Microcontroller (8051). |
| 19 | Mrs. Pujari Vandana Ganapti | 1 2 | Image Processing Digital Electronics |
| 20 | Dr. Archiman Lahiry | 3 | Wireless Communication Antenna Manufacturing |

| | | 4 | UAVs & RF Systems |
|---|---|---|---|
| 21 | Ms. Maske Hema Shivajirao | 1<br><br>10 | Image Processing |
| 22 | Ms. Khumbar Debbarma | 0.5 | Communication enggineering |
| 23 | Ms. Diya Chakraborty | 0.5 | VLSI Design |
| 24 | Dr. Krishna Majumder | 4.5<br><br>2 | RF and Microwave, Antennas (Planar, CP, MIMO, Beamforming) RADAR Communication system |
| 25 | Mrs. Suryawanshi Rupal Shivshant | 1.6<br><br>4 | Basic Electronics & Mechatronics |

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2. Mr. Manoj Hanaje ( BTech )
3. Ms. Ankita Jaykumar Rukade ( BTech )

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