



Shri Shamrao Patil (Yadavkar) Educational & Charitable Trust's
SHARAD INSTITUTE OF TECHNOLOGY
COLLEGE OF ENGINEERING

Yadav (Ichalkaranj)

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

AN AUTONOMOUS INSTITUTE

etc
Messenger



**Department of Electronics and
Telecommunication Engineering**

Newsletter 2021-22
Volume #13

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EXECUTIVE DIRECTOR



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PRINCIPAL



Dr. Sanjay A. Khot

eTC
Messenger

From HOD Desk



Dr. Sharad T. Jadhav
Associate Professor &
Head of Department

"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 Thirteen 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's Desk.



Ms. S. Y. Salunkhe
Editor

Dear reader

It is a great pleasure to introduce to you the 13th issue of the E&TC newsletters 'etc messengers'. We were overwhelmed by the response from the co-coordinators, head of departments, and faculty members in making this newsletter possible. In this newsletter, we have reported significant achievements of the Department, staff, and students. Campus news and events and the placement scenario have also been emphasized. I am glad to acknowledge the kind support that I received, directly and indirectly, to bring out the newsletter on time.

From Student Editor's Desk

Dear readers,

Our E&TC Engineering department has always been successfully competing with all the challenges.

It gives us immense pleasure to become student editor of this etc-messenger. We are thankful to find us capable of this work.

Students Co-ordinators



Mr. Vijay Koli
(SY B E & TC)



Mr. Kaushik Gokani
(SY B E & TC)

	Page No.
VISION - MISSION - QUALITY POLICY - GOALS - PEOs	4
FACULTY ACHIEVEMENT	5, 6, 7
STUDENT ACHIEVEMENT	8
FACULTY DEVELOPMENT PROGRAMME	8
ETESA ACTIVITIES AND DETAILS	9
IEEE ACTIVITIES	10
INDUSTRIAL VISITS	11
STUDENT ENRICHMENT PROGRAM	12
VALUE ADDITION PROGRAM	12
INNOVATION CENTRE:	
1.VLSI EXCELLENCE CENTER	13
2.TEXAS INSTRUMENT LAB	13
3. PCB DESIGN AND WIRELESS SENSOR NETWORK INNOVATION CENTER	14
4. E-Yantra lab	15
MINI PROJECT LIST	17
SITCOE PLACEMENT CELL	18
FACULTY LIST	19



VISION

To be a centre of excellence in Electronics and Telecommunication Engineering education to prepare professionally competent engineers with lifelong learning attitude for the accomplishment of ever-growing needs of society.

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.



QUALITY POLICY

Department of Electronics & Telecommunication is committed to establish quality system to produce socially responsible E&T Professionals through creative collaboration (Innovation & research).

Program Educational Objectives (PEOs)

Graduates of the programme will

PEO1:

To develop the ability to demonstrate technical competency with in depth knowledge of mathematics, science and Electronics and Telecommunication Engineering for providing optimal solutions.

PEO2:

To prepare graduates by imparting problem solving, software and firmware skills of core discipline to work in multi-disciplinary environment.

PEO3:

To build professional ethics, sensitivity towards society, environment and life-long learning attitude with leadership qualities.

GOALS

- To imbibe moral and ethical values in students with concern to society and environment.
- To meet current industry demand for professionals.
- To provide employment & advance education opportunities in emerging areas.
- To build & promote teams of experts in the upcoming specializations.
- To keep faculty members updated with latest development in technology & teaching methodologies.
- To start PG courses in engineering for different branches.



FACULTY ACHIEVEMENT

Faculties from our department competed NPTEL, ATAL, Industrial training, paper publication, book publication, project participation activates successfully for enhance their knowledge and which is imparted to the students for their technical growth.

1. NPTEL

Sr.	Name of Faculty	Name of Course	Tag
1	Mr. Manoj Babar	E & Tc department	Elite + Silver
2	Mr. Kupade Kadgonda Annasaheb	E & Tc department	elite
3	Dr. Jadhav Sharad Tukaram	E & Tc department	elite
4	Mr. Chimanna Mohan Annaso	E & Tc department	elite
5	Mrs. Ghorpade Shital Ranjit	E & Tc department	elite
6	Mrs. Kurlekar Supriya Pradeep	E & Tc department	Completed
7	Mr. Khandare Vaibhav Vinayak	E & Tc department	Completed
8	Mr. Halunde Swati Shripal	E & Tc department	Completed
9	Ms. Mulik Madhuri Balasaheb	E & Tc department	Completed
10	Ms. Sachane Madhuri Nagnath	E & Tc department	Completed
11	Ms. Salunkhe Sharada Yashwant	E & Tc department	Completed





NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)




This certificate is awarded to
MANOJ MOTILAL BABAR
 for successfully completing the course

Introduction to Embedded System Design

with a consolidated score of **79 %**

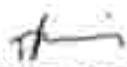
Online Assignments	24.06/25	Proctored Exam	54.5/75
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Total number of candidates certified in this course: **281**



Prof. Devendra Jalilut
 Chairman
 Centre for Continuing Education, IITM

Jan-Apr 2021
 (12 week course)



Prof. Andrew Thangara
 NPTEL, Co-ordinator
 IIT Madras



India Institute of Technology Madras



Roll No: NPTEL21EE58513830016

To validate and check scores: <https://nptel.ac.in/doc>

FACULTY ACHIEVEMENT

2. Paper Publication

Sr.	Name of Faculty	Name Of Paper	Publication Details
1	Dr Govind Patel	Analysts of Improved EZ-pass router design and its FPGA implementation	Journal of Harbin Institute of Technology (Scopus)
2	Dr. Govind Patel	Study of End to End Image Processing System including Image De-noising, Image Compression & Image Security	International Journal of Wireless Personal Communication, Springer(SCI),
3	Dr. Govind Patel	Development of improved speed AES based on key dependent intra-round operations	Journal of Theoretical and Applied Information Technology(Scopus)
4	Dr.Kalyanbrata Ghosh	CRLH-TL Based Reconfigurable Antennas with Multiple Parameter Reconfigurability	IEEE Transactions on Antennas and Propagation (SCI)
5	Ms.S.Y.Salunkho	Prediction of Alzheimer's disease using Machine Learning Algorithm	The 7th International Conference on Digital Arts, Media and Technology (DAMT) and 5th ECTI Northern Section Conference on Electrical, Electronics, Computer, and Telecommunications Engineering (NECET)

3. Patent publication

Sr.	Name of Faculty	Patent Name	Application Number	Tag
1	Dr. Govind Patel	Optimal Control of Electromagnetic waves through Artificial Intelligent for enhancing the power	202111049295	Design
2	Ms. K. N. Rode	Method and system for classifying magnetic resonance Images of sclerosis patients using deep learning Techniques	202141030012	Computer Science

4. Book/Chapter Publication

Sr.	Name of Faculty	Name of Book	Publisher Name
1	Dr. Govind Patel	EMG-based Robot control Human interfaces for hospital(Chapter)	CRC Press Taylor & Francis
2	Dr Govind Patel	Digital VLSI Design and Simulation with Verilog(Authored Book)	Wiley Publication
3	Dr. S. S. Gurav	An efficient method for suspicious activity detection" is selected as an book chapter.	Novel perspectives of Engineering Reserch" International Book

FACULTY ACHIEVEMENT

5. Project Achievement

One of Project of our department got 1st Rank in Regional Level Project Competition organized by DTE Pune guided by Dr. S. S. Gurav

Project Title:- Self sustained e-Toilet System Using IOT with sewage water Treatment.

Students Name:-

1. Ms. Soniya Kumbale
2. Ms. Mrunal Patil
3. Ms. Vaishnavi Pareek
4. Ms. Apeksha Huddar
5. Ms. Tanzeela Kudchikar
6. Ms. Ankita Mali
7. Ms. Anupriya Tippannawar
8. Ms. Snehal Thomke



This project was sponsored by Government of Maharashtra and will be implementing in Vadgaon Municipal Corporation.

Dear Participants,

Greetings of the day!

We are happy to announce the results of the Regional Level Project Competition jointly organized by Vishwakarma Institute of Technology, Pune and the Directorate of Technical Education - Regional Office, Pune held on 18th January 2022.

The results are declared on the basis of assessment done by the eminent experts from relevant industries.

The prize winners are as follows:

Sl. No.	Name of the Winner	Project Title	Rank
1	Ms. Soniya Kumbale, Ms. Mrunal Patil, Ms. Vaishnavi Pareek, Ms. Apeksha Huddar, Ms. Tanzeela Kudchikar, Ms. Ankita Mali, Ms. Anupriya Tippannawar, Ms. Snehal Thomke	Self sustained e-Toilet System Using IOT with sewage water Treatment	1 st Rank
2			
3			

We congratulate the winners and wish them best of luck for future endeavors.

We also take this opportunity to thank and congratulate all the participants who have actively presented their projects to make this regional Level Project Competition a Grand Success!

Thank you!



To,
The Principal / Director,
Vishwakarma Institute of Technology, Vadgaon

Sub: Congratulations on winning First Prize in "Regional Level Project Competition" jointly organized by Vishwakarma Institute of Technology, Pune and Directorate of Technical Education - Regional Office, Pune held on 18/1/2022.

Dear Sir,

We are writing this letter to congratulate your Institute team on winning the First prize in the "Regional Level Project Competition" held on 18/1/2022 at Vishwakarma Institute of Technology, Pune. Your team truly deserves this honor. Congratulations to Vaishnavi, Snehal, Tanzeela, Apeksha and Soniya for presenting their project titled "Self sustained e-Toilet system using IOT with Sewage Water Treatment" under the guidance of Prof. S. S. Gurav.

This Award is showcasing the hard work, efforts and determination for developing the project idea and implementing it in an effective way.

Congratulations once again.

Sincerely,

Dr. Ganesh Dhanraj
Dean, Research & Development

Prof. Anand Kulkarni
Head, Multidisciplinary Engineering

PROJECT ACHIEVEMENT

5. Project Achievement

Project from our department secured One more great achievement: getting 1st Rank in VISAI 2022 "12th International project competition and exhibition" under the category "clean water and sanitation."
 This project secured 1st rank out of 54 ideas from 15 universities

Project Guide - Dr. S. S. Gurav

Project Title - Self-sustained e-Toilet System Using IOT with sewage water treatment.

Students Name -

- 1) Vaishnavi Shyamsundar Patil
- 2) Soniya Jitendra Kumble
- 3) Mrunal Sahas Patil

This project was sponsored by the Government of Maharashtra and will be implemented in Vadgaon and Malgaon Municipal Corporation.

The image shows a certificate from VISAI 2022 (12th International Project Competition and Exhibition). The project title is "201355 SELF SUSTAINED E-TOILET SYSTEM USING IOT WITH SEWAGE TREATMENT PLANT" by SHARAD INSTITUTE OF TECHNOLOGY COLLEGE OF ENGINEERING, YADRAV. The project is categorized under "6 CLEAN WATER AND SANITATION". The winners are Vaishnavi Patil, Soniya Kumble, and Mrunal Patil. The certificate also features a trophy icon and the Sustainable Development Goals logo.

युनेस्को व आयएनसीसीयुच्या आंतरराष्ट्रीय प्रोजेक्ट स्पर्धेत शरद इन्स्टिट्यूट प्रथम

ई-टॉयलेट संकल्पना : क्लिन वॉटर अॅण्ड सॅनिटेशन श्रेणी

युनेस्को व आयएनसीसीयुच्या आंतरराष्ट्रीय प्रोजेक्ट स्पर्धेत शरद इन्स्टिट्यूट प्रथम. या प्रकल्पात स्वयंचालित आणि स्वयंपूर्ण असलेल्या ई-टॉयलेटची संकल्पना मांडण्यात आली आहे. या प्रकल्पात स्वयंचालित आणि स्वयंपूर्ण असलेल्या ई-टॉयलेटची संकल्पना मांडण्यात आली आहे. या प्रकल्पात स्वयंचालित आणि स्वयंपूर्ण असलेल्या ई-टॉयलेटची संकल्पना मांडण्यात आली आहे.



या प्रकल्पात स्वयंचालित आणि स्वयंपूर्ण असलेल्या ई-टॉयलेटची संकल्पना मांडण्यात आली आहे. या प्रकल्पात स्वयंचालित आणि स्वयंपूर्ण असलेल्या ई-टॉयलेटची संकल्पना मांडण्यात आली आहे. या प्रकल्पात स्वयंचालित आणि स्वयंपूर्ण असलेल्या ई-टॉयलेटची संकल्पना मांडण्यात आली आहे.

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STUDENT ACHIEVEMENT IN TECHNICAL EVENT - Students Participation in Such Events 2021-22

Sr. No	Name Of Student	Name of Events to be Participated	Date/Duration/Year	Place	Level	Achievement
1	Setiya Tamboli	IMPETUS 2K21	23rd October 2021 (Paper Presentation)	SITCOE	National Level Technical Event	1st Prize
2	Harshada Himmat Wani	IMPETUS 2K21	23rd October 2021 (Paper Presentation)	SITCOE	National Level Technical Event	Participation
3	Shreya Dilip Wani	IMPETUS 2K21	23rd October 2021 (Paper Presentation)	SITCOE	National Level Technical Event	1st Prize
4	Sayali Rajendra Raymode	IMPETUS 2K21	23rd October 2021 (Paper Presentation)	SITCOE	National Level Technical Event	Participation
5	Shruti Hemqiri	IMPETUS 2K21	23rd October 2021 (Paper Presentation)	SITCOE	National Level Technical Event	1st Prize
6	Mayuri Vhanmore	IMPETUS 2K21	23rd October 2021 (Paper Presentation)	SITCOE	National Level Technical Event	2nd Prize
7	Snehal Kumar Dattawade	Exhibition of Best not Waste	02nd Dec 2021	IEEE SB STB10109, SITCOE	Home Institute	2nd Prize

FACULTY DEVELOPMENT PROGRAMME

FDP DETAILS

Our Department Arranged Faculty development Programme on Machine Learning and Deep Learning hands-on Experiments using Python. Many Faculty Participants from the reputed institute participated in this workshop.

Sr.No	Name of Workshop Organized	Date	Source of Filling	Target Audience
1	One-week Faculty Development Program on "Simulation Tools for Research."	8 th to 14 th February 2022	ISTE approved SITCOE	248

ETESA STUDENTS ASSOCIATION

DETAILS OF ETESA ACTIVITIES

Electronics & Tele-Communication Engineering Students' Association (ETESA) tries to improve the personality of every student. This Association helps them to achieve the goal of an intellectual and thinking person which is not only in their academic and extra co-curriculum activities. This society provides them a platform where they can explore their talents. It allows them to work in a group consisting of members from all the years.

EVENT	DATE
Teachers Day Celebration	5/09/2021
Engineers Day Celebration	15/09/2021
ETEASA Reinstallation	18/10/2021



IEEE STUDENT BRANCH ACTIVITIES-2021

Sr.No	Activity	Target Audience	Date	No of Participants
1	National Level Quiz on the Eve of Maharashtra Day	Students	May 1 st 2021	109
2	National Quiz on the occasion of National Science and Technology Day	Students and Faculty	May 11 th and 12 th 2021	395
3	Webinar on Role of IEEE on Engineering Education	Students and Faculty	21 st May 2021	180
4	Poster Presentation	Students	13 th June 2021	29
5	VAP on Design of Electric Vehicle	Students	14 th -16 th June 2021	112
6	Outreach Program at Junior college on Career Guidance	HSC Students	21 st June 2021	150

IEEE Research Powers Patents

IEEE is the most cited publisher in new patents from top patenting organizations

Patents referring to IEEE increased over 842% since 2007

Members that build upon IEEE publications are more likely to be cited in the future

The importance of AI tech therefore its patents is rising

IEEE dominates in patents related to Artificial Intelligence, Autonomous Vehicles, and Internet of Things

Number of U.S. Patent References from Top 50 Companies to Top 20 Publishers



Source: IPR Analytics LLC, January 2022



More information available at www.ieee.org/patents/index

The screenshot shows a presentation slide with the following content:

- Slide 6**
- IEEE ENGLISH for Technical Professionals HEARING**
- Objectives:**
 - Understand the importance of English in the technical field.
 - Identify the key areas of English that are essential for technical professionals.
 - Develop the skills and knowledge needed to succeed in a technical career.
- Agenda:**
 - Introduction
 - The Importance of English in the Technical Field
 - Key Areas of English for Technical Professionals
 - Developing the Skills and Knowledge Needed to Succeed
 - Conclusion

INDUSTRIAL VISITS

Due to pandemic of COVID-19 situation the department organizes industrial visits are arranged. The excursions and industrial visits are for the students which are relevant to the stream of study of the programme.

Industrial Visit Conducted (A.Y-2020-21, SEMI)

Sr.No	Type of Visit	Link for Virtual Visits	Class	Conduction Date
1	Virtual Tour	Frontier Robotics And Automation Privato Limited,Pune	SY, TY . B.Tech	14/09/21
2	Virtual Tour	Faith Automation,Pune	SY, TY . B.Tech	18/10/21
3	Virtual Tour	Patil Automation Pvt. Ltd.,Pune	SY, TY . B.Tech	22/11/21
4	Offline	Sharada Electronics Co.Ltd Kupwad MIDC	TY (A,B)	22/12/21
5	Virtual Tour	Gelco Electronics Pvt Ltd	SY, TY . B.Tech	28/12/21
6	Virtual Tour	Virtual Industrial Visit at Danfoss Industries Pvt Ltd, Chennai	SY, TY . B.Tech	1/01/22



GUEST LECTURE PROGRAM

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

Sr. No.	Date	Guest Lecture Topic	Name of the Guest	Duration
1.	06/10/2021	Competitive Exams	Mr. Shailesh Kokate	2 hr
2.	07/10/2021	Python Programming Overview, Usage and Job Opportunities in Python	Mr. Nivas Narkar	2 Hr
3.	08/10/2021	Internet of Things	Mr. Raghudathesh G. P.	2 hr
4.	26/10/2021	GATE Preparation	Mr. Mahesh Takale	2Hr
5.	18/12/2021	Embedded System Design for Automotive	Mr. Vivek Patil	2 Hr
6.	04/01/2022	GATE 2023 Preparation	Mr. Aniket Budhale	2 Hr
7.	08/01/2022	Control System Engineering	Dr. Pramod Chavan	2 Hr
8.	15/01/2022	PLC	Mr. Tushar Subhedar	2 Hr
9.	17/01/2022	Sensors and DAQ Systems	Mr. Dipak Omanna	2 Hr
10.	07/10/2021	Python Programming Overview, Usage and Job Opportunities in Python	Mr. Nivas Narkar	2 Hr

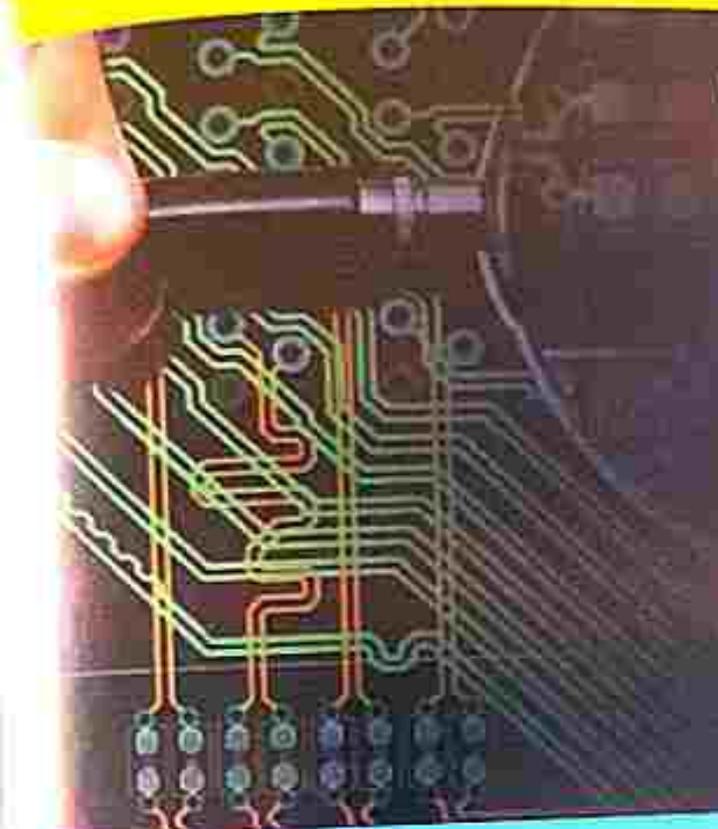
VALUE ADDITION PROGRAM

Department organizes value addition program for improving the student's technical knowledge.

Sr. No.	Title	Date	Duration
1	Linux Administration & AWS Cloud	27.09.2021-01.10.2021	1 week
2	TCS ION Industry Honour Certification IHC Python Programming	03.01.2022-27.01.2022	(Weekly 2 days) 4 week

Design and development is one of the important steps in product or system development for all electronics-based automobiles, machines, and equipment. The lab setup provides a facility for PCB development required for project. 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 various 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

Names and Activities:

- A consultancy proposal has been accepted by SURYA Electronics Pvt. Ltd, for designing And manufacturing of 3000 PCBs within the agreement signed for the contractual span of a year till date 600 PCBs have been manufactured and handover.
- Students training on LED strip Designing and Manufacturing, which has resulted in developing various products like LED strip Manufacturing and Decorative LED light flower vase
- Commercialization of Decorative LED light flower vase
- Students training on PCB Designing & Manufacturing, which has resulted in creating their PCB for their mini project and final year project

4. E-Yantra LAB

OBJECTIVE

The objective is to provide hands-on Learning to engineering students who have limited access to labs and mentors to create the next generation of (Embedded systems) engineers from college with a practical outlook to tackle challenging problems and provide solutions.

OUTCOME

- The student will be able to construct robotic concepts (gesture robotics, sensor guided robotics, spy robotics, etc)
- The student will be able to examine the different behaviour of robotics.

Activities report of LAB

1. Total number of students registered : 92

2. Departments involved:

Mechanical, Computer Science Engineering, and Electronics and Computer Engineering

3. Activities Done:

- Level 1: Students have completed their programming task
- Level 2: Students attended their(IIT) Lecture
- Level 3: We have got an IOT kit from IIT Bombay.
- Level 4: Attending IIT Videos

PLACEMENT DETAILS

Name of Student	Name of Students Placed	Sr. No	Name of Student	Name of Students Placed
Kiran Shrikant Tasgave	TCS	45	Nikita Avinash Patil	KPIT
Manasi Machindra Kumbhar	TCS	46	Sudarshan Patil	KPIT
Mahesh Arvind Ingavale	TCS	47	Vidya Basavraj Angadi	Hidden Brain
Ashwini Vilas Karadge	TCS	48	Vaishnavi Kundlik Chavan	Hidden Brain
Rahim Ijaz Mahat	TCS	49	Arhaj Aslam Mulla	Hidden Brain
Akash Bhagavat Patil	TCS	50	Ruchita Rajendra Danole	Mindtree
Akshata G. Mane-Gavade	TCS	51	Nikita A. Patil	Hexaware
Asmita Milan Korbu	TCS	52	Vaishnavi S. Pareek	Hexaware
Maya Dadaso Methe	TCS	53	Mrunal Sohas Patil	Infocept
Pritam Satish Udgave	TCS	54	Rahim Ijaz Mahat	Infocept
Apeksha Suryakant Huddar	TCS	55	Varad Sanjay Pujari	Infocept
Soniya Jitendra Kumble	TCS	56	Suhail Altaf Jangale	Infocept
Rutuja Mahadev Khatave	TCS	57	Mahesh Arvind Ingavale	Infocept
Samruddhi Sukumar Magdum	TCS	58	Vidya Basavraj Angadi	Infocept
Ruchita Ravindra Kamble	TCS	59	Asmita Dattatraya Gangdhar	Infocept
Mahesh Arvind Ingavale	Wipro	60	Pankaj Manohar Funde	Infocept
Pankaj Manohar Funde	Wipro	61	Akshay Tukaram Waghavakar	Infocept
Asmita Milan Korbu	Wipro	62	Pornima Ramesh Patil	Infocept
Samruddhi Sukumar Magdum	Wipro	63	Kaushal Surendra Hogade	Infocept
Ruchita Ravindra Kamble	Wipro	64	Siddhant Bidari	Infocept
Apeksha Suryakant Huddar	Wipro	65	Vaishnavi Shyamsundar Pareek	Infocept
Akash Bhagavat Patil	Wipro	66	Akhilesh Ravindra Pujari	Infocept
Neha Aslam Sanadi	Wipro	67	Milind Patil	Vertusa
Soniya Jitendra Kumble	Wipro	68	Snehal Ramchandra Vadage	Hella
Sakshi Rajgonda Patil	Q Spider	69	Suhailahmed Khan	Cappgemini
Akash Bhagavat Patil	Q Spider	70	Milind Patil	Cappgemini
Rohil Panyan	Q Spider	71	Dhanraj Patil	Cappgemini
Vidya Basavraj Angadi	Q Spider	72	Omkar Chougale	Cappgemini
Snehal Ramchandra Vadage	Q Spider	73	Ruchita Rajendra Danole	Cappgemini
Tanjeela Sayeed Kudchikar	Q Spider	74	Snehal Ramchandra Vadage	Cappgemini
Vaishnavi Shyamsundar Pareek	Q Spider	75	Darshana Wani	Cappgemini
Saniya Anil Patil	Q Spider	76	Sonali Teli	Cappgemini
Rutuja Sudarshan majale	Q Spider	77	Manasi Machindra Kumbhar	Cappgemini
tunil pappuram saini	Q Spider	78	Pooja Khol	Cappgemini
Sonali Kumar Salunkhe	Q Spider	79	Sneha M Begade	Zensar
Shruti Sunil Shingare	Pentagone	80	Rutuja R Patil	Zensar
Pranali Sanjay Khedkar	Pentagone	81	Rutuja S. Majale	Zensar
Asmita Milan Korbu	Pentagone	82	Sneha T. Gangdhar	Zensar
Rutuja Rajgonda Patil	Pentagone	83	Akash B Patil	Zensar
Vaishnavi Kundlik Chavan	Pentagone	84	Pragati Jirage	Cyber Success
Pankaj Manohar Funde	Pentagone	85	Nandkumar Kadate	Cyber Success
Shubham Mahadev Shiade	Pentagone	86	Vidya Angadi	Cyber Success
Neha Aslam Sanadi	Pentagone	87	Nandkumar Kadate	Neosoft
Anuradha Dilip Shingade	Pentagone	88	Zaheer Ayaz Mulla	GSS Corp Pvt Ltd, Chennai

MINI PROJECT

We implement project-based learning, in this student done various mini projects using different techniques. With this approach students actively explore real-world problems and challenges and acquire a deeper 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.

SY A

Sr. No	Name of Project
1	Smart Irrigation System
2	Solar Inverter
3	Smart Solar Planner Cleaner
4	Automatic Hand Sanitizer Machine
5	Advanced Solar Mobile Battery Charger
6	Solar Power Bluetooth Speaker
7	Intelligent Security and Safety System for Industries
8	IOT Based Irrigation
9	Solar Powered battery Charging with Reverse Current Protection
10	Vehicle Overspeed Sensor
11	Obstacle Avoiding Robot Using L293N
12	Womens Safety Gadget
13	Smart Blind Stick using Arduino
14	Mobile Through Car Operating System using IOT
15	Bi Directional Visitor Counter Using 7 Segment
16	IOT Based Smart Door Lock System
17	Solar Power Monitoring System
18	Alcohol Detection with automatic engine Locking System
19	Automatic Room Light Controller Using Arduino and PIR Sensor

SY B

Sr. No	Name of Project
1	Arduino Based automatic light on off control system
2	Arduino based digital thermometer
3	Automatic street light control
4	Automatic street light control using LDR
5	Counting products by using color sensor
6	Wireless mobile charging
7	Invisible security system
8	Temperature control fan
9	Clap switching circuit on and off
10	Bluetooth based robot control using Arduino
11	Rain sensing automatic wifer
12	Automatic water irrigation system using IC 555
13	Non-contact wireless AC current detector
14	Video plus audio downloader using pytube
15	Women security system using GPS
16	Voice controlled Home Automation
17	Smart power bank for home
18	Smart movable dustbin for hospital
19	Bluetooth Display
20	Heart beat sensor
21	Audio transmission using LED light
22	CD disk for 7-segment display
23	Home automation using digital control

Sr. No.	Class	Total No of Mini Projects
1	SY A & B	42
2	TY A & B	36

TY A

Sr. No	Name of Project
1	Arduino using Bluetooth based motor controlling
2	Transformer winding Machine
3	RFID based Attendance System
4	solar power generation for home application using mat lab
5	display board micro controller and wireless module
6	touchless doorbell using IR sensor
7	COVID detection using artificial intelligence and deep learning
8	AUTOMATIC room light controller using PIR Sensor
9	Website on Maharashtra famous cities
10	3D LED cube
11	Dual Access solar tracking security system using logic Gates
12	Distance measurement system
13	image editing using Python
14	Install virtual window using AWS cloud
15	website hosting on AWS cloud
16	home automation using IC 555
17	Solar powered mobile phone charger
18	automatic street light control system

TY B

Sr. No	Name of Project
1	Finger Print Door Locker
2	Human Following Robot Arduino
3	Pulse Oxymeter
4	Advance soil water monitoring system
5	Heart Beat sensor using Arduino
6	Smart Vacuum Cleaner Robot Using Arduino
7	Temperature controller Fan using Arduino
8	Solar Tracking system
9	Solar Energy Monitoring
10	Car Parking Using IOT
11	Automatic IOT based Plant Monitoring
12	Li-Fi Technology
13	Hand Sanitizer Machine
14	Mobile through car operating system using IOT
15	Traffic Light Controller Using Arduino
16	Fan speed Control using Temperature Sensor
17	Segmentation techniques using image processing
18	Home automation system using Arduino

FACULTY OF DEPARTMENT

Sr.No	NAME OF FACULTY	EXPERIENCE	AREA OF SPECIALIZATION
1	Mrs Supriya P Kurltekar(Vice Principal)	22.5	VLSI
2	Mr. Kupade K. A.(Dean, IIPC)	11.5(Teaching), 9.5(Industry)	VLSI System Design
3	Ms. Priya D. Ghate(Dean, FDP)	11.5	Communication
4	Dr. S.T. Jadhav(HOD)	19	Networking & Image Processing
5	Dr. Govind Singh Patel	18(Teaching), 2(Industry)	VLSI and Signal Processing
6	Dr. Pravin Kumar S. Patil	24	Wireless communication, signal processing
7	Ms. Sharda Y Salunkhe(Program Coordinator)	12.5	Image processing
8	Mrs. Shital R. Ghorpade(Academic Coordinator)	14.5	Image Processing
9	Mrs. Dhanashri M Biradar	8.5	Embedded System
10	Ms. Kalpana N Rode	17	communication
11	Ms. Madhuri B Mulik	14.5	VLSI And Embedded
12	Mr. Vaibhav V.Khandare	14.5	Image Processing
13	Mr. Mohan A. Chimanna	13(Teaching), 2(Industry)	Antenna and Microwave Engineering
14	Mr. Manoj M. Babar	12.5	Embedded System
15	Dr. Sachin Surendra Gurav	10	Image and video
16	Ms. Madhuri N. Sachane	10	Image Processing
17	Mr. Sonale Mohan Shrikant	11.5	Wireless Communication
18	Mr. Diwakar M Tayagar	9.5	VLSI System Design, Embedded System
19	Mr. Rohan A. Chougule	10	Wireless communication
20	Ms. Halunde Swati S.	9.5	Image Processing, Wireless Communication
21	Mr. Ullas Jayakumar Maisale	9.5	Measurement, Communication, and PLC
22	Dr. K. Ghosh	11	RF & Microwave

SUPPORTING STAFF

Mr. A. S. Patil (B.E.Electronics)	Mr. R. A. Sudhal (Dip. Electronics)
Mr. S. A. Jangate (Dip. Electronics)	Mr. Rahul Joshi (BTech)
Ms. Pooja Khawate(B.E)	Ms. Shubhangi Chougule (B.E)
Ms. J. B. Chougule (B.E)	Peon
	Mr. Amol M .Karande



OUR PROFESSIONAL SOCIETY



Shri Shamrao Patil (Yadavkar) Educational & Charitable Trust's
SHARAD INSTITUTE OF TECHNOLOGY
COLLEGE OF ENGINEERING

Yadav (Ichalkaranji)

(Approved by AICTE, Govt. of Maharashtra and Affiliated to DBATU Lonare)

Gat No.525,473/A, Behind Onkareshwar Temple, Yadav – Ichalkaranji.
Tal - Shirol, Dist - Kolhapur, Maharashtra, India | website : sitcoe.ac.in
Telephone - +91- 2322 - 253000, Fax - +91-2322-252897



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**Department of Electronics
and Computer Engineering**



CHAIRMAN



Hon'ble Dr. Rajendra Patil (Yadavkar)

EXECUTIVE DIRECTOR



Hon'ble Mr. Anil Bagane

PRINCIPAL



Dr. Sanjay A. Khol

From HOD Desk



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 Fourteen 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 course work 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's Desk..



Ms. S. Y. Salunkhe
Editor

Dear reader,

It is a great pleasure to introduce to you the 14th issue of the E & C department newsletters 'etc messengers'. We were overwhelmed by the response from the co-coordinators, head of departments, and faculty members in making this newsletter possible. In this newsletter, we have reported significant achievements of the Department staff and students. Campus news and events and the placement scenario have also been emphasized. I am glad to acknowledge the kind support that I received, directly and indirectly, to bring out the newsletter on time.

From Student Editor's Desk

Dear readers,

It gives us immense pleasure to become student editor of this etc-messenger. We are thankful to find us capable of this work.

Our Electronics and Computer Engineering Department has always been successfully competing with all the challenges.

Students Co-ordinators



Mr. Vijay Koli
(SY B E & TC)



Mr. Kaushik Gokani
(SY B E & TC)

eTC
Messenger

INDEX

Department Of Electronics and
Computer Engineering

Newsletter 2021-22
Volume #14

etc
Messenger

	Page No.
VISION - MISSION - QUALITY POLICY - GOALS - PEOs	4
FACULTY DEVELOPMENT PROGRAMME	5
FACULTY ACHIEVEMENT	6, 7, 8
IEEE ACTIVITIES	9
STUDENT ACHIEVEMENT	10, 11, 12, 13
ETESA ACTIVITIES AND DETAILS	14
INDUSTRIAL VISITS	15
STUDENT ENRICHMENT PROGRAM	16
VALUE ADDITION PROGRAM	17
INNOVATION CENTRE:	
1. CENTER OF EXCELLENCE VLSI & Embedded	18
2. TEXAS INSTRUMENT LAB	18
3. PCB DESIGN AND WIRELESS SENSOR NETWORK	19
4. E-Yantra Lab	20
MINI PROJECT LIST	21
SITCOE PLACEMENT CELL	22
FACULTY LIST	23



VISION

To be a centre of excellence in Electronics and Telecommunication Engineering education to prepare professionally competent engineers with lifelong learning attitude for the accomplishment of ever-growing needs of society.

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.



QUALITY POLICY

Department of Electronics & Telecommunication is committed to establish quality system to produce socially responsible E&TC Professionals through creative collaboration, innovation & research.

Program Educational Objectives (PEOs)

Graduates of the programme will

PEO1:

To develop the ability to demonstrate technical competency with in depth knowledge of mathematics, science and Electronics and Telecommunication Engineering for providing optimal solutions.

PEO2:

To prepare graduates by imparting problem solving, software and firmware skills of core discipline to work in multi-disciplinary environment.

PEO3:

To build professional ethics, sensitivity towards society, environment and life-long learning attitude with leadership qualities.

GOALS

- To imbibe moral and ethical values in students with concern to society and environment.
- To meet current industry demand for professionals.
- To provide employment & advance education opportunities in emerging areas.
- To build & promote teams of experts in the upcoming specializations.
- To keep faculty members updated with latest development in technology & teaching methodologies.
- To start PG courses in engineering for different branches.



FACULTY DEVELOPMENT PROGRAMME

Our Department Arranged Faculty Development Programme on Machine Learning and Deep Learning hands-on Experiments using Python. Many Faculty Participated from the reputed institutes. This FDP Conducted in Offline mode.

Sr. No	Name of Workshop Organized	Date	Source of Filling	Target Audience
1	FDP on Python, Data Science & Programme	19 th July 2022-23 rd July 2022	E & C Dept., SITCOE	30

Executive Patron

1. **Dr. Dilip K. Joshi**,
Executive Patron,
Department of Information Engineering,
MSP, College of Engineering,
Sion, Maharashtra, India.

2. **Dr. Hemant R. Kulkarni**,
In-charge & Head, Institute,
SITCOE, Institute of Engineering and
Technology, Sion,
Maharashtra, India.

3. **Dr. Rajul S. Yashu**,
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Department of Information &
Telecommunication Engineering,
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Sion, Maharashtra, India.

4. **Dr. Rajesh S. Kulkarni**,
Executive Patron,
Department of Information &
Telecommunication Engineering,
SITCOE, College of Engineering,
Sion, Maharashtra, India.

5. **Dr. P. S. Patil**,
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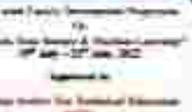
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FACULTY ACHIEVEMENT

Faculties from our Department completed NPTEL, ATAL, Industrial training, paper publication, book publication, project participation activates successfully to enhance their knowledge and, which is imparted to the students for their technical growth.

1. NPTEL Certification

Sr.	Name of Faculty	Name Of Course
1	Dr. Pravinkumar Sudhakar Patil	NBA Accreditation and Teaching and Learning in Engineering (NATE)
		Principles of Communication Systems - I
2	Mrs. Shital Ranjit Ghorpade	Data Analytics with Python
3	Mrs. Madhuri Nagnath Sachane	Data Analytics with Python
4	Mrs. Supriya Pradeep Kurlekar	NBA Accreditation and Teaching and Learning in Engineering (NATE)
		Patent Law for Engineers and Scientists
5	Ms. Kalpana Narayan Rode	NBA Accreditation and Teaching and Learning in Engineering (NATE)
		Patent Law for Engineers and Scientists
6	Ms. Sharda Yashwant Selunkhe	NBA Accreditation and Teaching and Learning in Engineering (NATE)
7	Mr. Kadgonda Annasaheb Kupade	Patent Law for Engineers and Scientists
8	Ms. Priya Dilip Ghate	NBA Accreditation and Teaching and Learning in Engineering (NATE)
9	Ms. Swati Shreepal Halunde	Patent Law for Engineers and Scientists
10	Dr. Kalyanbrata Ghosh	NBA Accreditation and Teaching and Learning in Engineering (NATE)
11	Mr. Vaibhav Khandare	NBA Accreditation and Teaching and Learning in Engineering (NATE)

FACULTY ACHIEVEMENT

2. Paper Publication

Sr.	Name of Faculty	Name Of Paper	Publication Details
1	Dr. K. Ghosh	CRLH-TL Based Reconfigurable Antennas with Multiple Parameter Reconfigurability", IEEE Transactions on Antennas and Propagation	IEEE Transactions on Antennas and Propagation, DOI: (IEEE, SPI)
2	Dr. G. S. Patel	Emerging Trends in Network on Chip Design for Low Latency and Enhanced Throughput applications",	International Conference on Materials for Emerging Technologies
		Sleepy stack CSVCO with wide tuning and low power for PLL applications"	International Conference on Intelligent circuit and system (Scopus)
		Study of End-to-End image Processing System including Image De-noising, Image Compression & Image Security	International Journal of Wireless Personal Communication, Springer(SCI)
		Analysis of improved EZ-pass router design and its FPGA implementation.	Journal of Harbin Institute of Technology
3	Mr. Mohan A Chimanna	"Design and Development of Orthomorphic and Reconcilable Ultra-wideband antenna for wearable applications"	International conference on mathematical and Statistical Computation (ICMSC-2022),
		Design and Analysis of miniature wearable UWB antenna for body Centric Communication."	AICTE Sponsored International Conference on Recent Advances in Electrical, Electronics, and Communication Networks (ICRAEECN 2022)
		Development of miniature wearable ultra-wideband antenna using qualified Analysis of different substrate materials for body-centric communication	
4	Mrs. S. P. Kurlekar	IOT Based smart Hospital Management System	JETIR,UGC approved (journal no. 63975) Impact factor 7.95, ISSN: 2349-5162 VOL 9 ISSUE1 Jan 2022 (journal)
		GSM module interfacing with 8051 for display board application	Journal of positive school psychology (Scopus indexed) ISSN 2717-7564 Vol 62022
5	Mr. K. A. Kupade	Design and Verification of Nine port Network Router for Network on Chip	GIS SCIENCE JOURNAL - ISSN NO : (1869-9391)

FACULTY ACHIEVEMENT

3. Book/Chapter Publication

Sr.	Name of Faculty	Name of Book	Publisher Name
1	Dr. Govind Patel	Digital VLSI design and Simulation with Verilog	Wiley Publication, 2021. (In Press)
		Book Chapters Authored: "A single cycle low latency bypass router based on the network on chip."	ICICS Proceeding, CRC press (Taylor & Francis), ISBN: 978-1-00-312910-3, DOI: 10.1201/9781003129103. (In Press)
2	Dr. S. S. Gurav	Book Chapter "Handbook of Sustainable Materials"	CRC Publication (Taylor and Facts Group-Scopus and Web of Science Indexed)

4. Patent publication

Sr.	Name of Faculty	Name of Book	Application Number	Area
1	Mrs. S. P. Kurlekar	IODT based smart unmanned cattle grazing system, September 2021	Indian patent application number 202111038372A	Machine Learning
		A machine learning-based priority token system for reporters for an effective interview in crowding, Oct 2021 Published.	Indian patent number 202141045180	

5. Best Teacher Awards : Ms. S. Y. Salunkhe

A teacher is... someone who inspires; someone who motivates; someone who leaves a mark on a generation. Great teachers deserve great rewards, and nothing is more effective than praise and recognition in the form of an award. Our staff Faculty Member got best Teacher award in Year (2021-22)



**SUMMARY OF ACTIVITIES CONDUCTED UNDER IEEE
SITCOE Student Branch - Sem-II - AY- 2021-22**

Sr.	Activity	Target Audience	Date
1.	Quiz on the occasion of Women's Day-2022	Students	08/03/2022
2.	Webinar on "LabVIEW and its Applications in Electrical Engineering".	Students and Faculty	25/03/2022
3.	Webinar on "LabVIEW and its Applications in Electronics and Telecommunication Engineering".	Students	29/03/2022
4.	A Seminar on Industrial Automation and Career opportunities.	Students	21/04/2022
5.	Webinar on role of IEEE in Engineering education	Students	20/05/2022



STUDENT ACHIEVEMENT IN TECHNICAL EVENT

Sr. No	Name Of Student	Name of Events to be Participated	Date/Duration/Year	Place	Level	Achievement
1	Soniya J. Kumble	Paper Presentation	25/05/2022	SITCOE,Yadav	National Level Technical Event	1st Rank
2	Mrunal S. Patil	Paper Presentation	25/05/2022	SITCOE,Yadav	National Level Technical Event	1st Rank
3	Darjeeta S. Kudchikar	Project Competition	25/05/2022	SITCOE,Yadav	National Level Technical Event	2nd Rank
4	Apeksha S. Huddar	Project Competition	25/05/2022	SITCOE,Yadav	National Level Technical Event	2nd Rank
5	Soniya J. Kumble	Project Presentation Contest	24-26/04/2022	KIT's COE,Kolhapur	National Level Technical Event	1st Rank
6	Mrunal S. Patil	Project Presentation Contest	24-25/04/2022	KIT's COE,Kolhapur	National Level Technical Event	1st Rank
7	Apeksha S. Huddar	Project Presentation Contest	24-25/04/2022	KIT's COE,Kolhapur	National Level Technical Event	1st Rank
8	Vaishnavi S. Pareek	Project Competition	07-09/06/2022	Nanasaheb Mahadik College of Engineering, Path	National Level Technical Event	1st Rank
9	Soniya J. Kumble	Project Competition	07-09/06/2022	Nanasaheb Mahadik College of Engineering, Path	National Level Technical Event	1st Rank
10	Ankita H. Mall	Project Competition	25/05/2024	SITCOE,Yadav	National Level Technical Event	2nd Rank
11	Snehal R. Thomaze	Project Competition	25/05/2024	SITCOE,Yadav	National Level Technical Event	2nd Rank
12	Aditi A. Chiparge	Quiz	9/4/2022	Vidya vardhini Institute of Technology, Pal	National Level Technical Event	Runner UP
13	Vrushali J. Chougale	Project Competition	18/06/2022	TKIT, Warananagar	National Level Technical Event	3rd Rank
14	Shubhashree P. Kumbhar	CodeTrix	25/05/2022	SITCOE,Yadav	Organized by IEEE SB STB10109	3rd Rank
15	Snehal Dattawade	Exhibition of Best Out Waste	2/12/2021	SITCOE,Yadav	Organized by IEEE SB STR10109	2nd Rank
16	Amiradha M Ingavale	Project Competition	25/05/2024	SITCOE,Yadav	National Level Technical Event	3rd Rank
17	Neha Mahipati Dhanawade	Project Competition	18/06/2022	TKIT, Warananagar	National Level Technical Event	3rd Rank
18	Soliya Intliya Tamboli	Project Competition	18/06/2022	TKIT, Warananagar	National Level Technical Event	3rd Rank
19	Shruti S. Hemgire	Paper Presentation	9/4/2022	Vidya vardhini Institute of Technology, Pal	National Level Technical Event	Runner UP

STUDENT ACHIEVEMENT
Project Achievement



STUDENT ACHIEVEMENT

Project Achievement



STUDENT ACHIEVEMENT

Sponsored Project by "Government of Maharashtra"

Self Sustained e-Toilet Sysetm
using IOT with Sewage water Treatment"

Funding Amount : 6 Lakhs

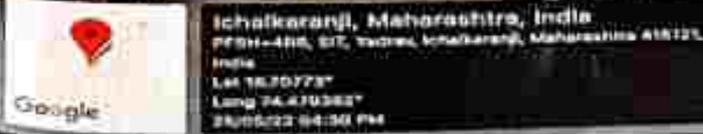


1st prize in 12th international project competition (VISAI 2022) A joint collaboration Event of UNESCO and Indian National Commission.



Winner in the event of project competition named as GRAVITA2K22

1st winner of Regional level project competition jointly organised by VIT, pune and DTE, regional office



2nd prize winner in Project Competition during INNOVATION 2K22



1st Winner of National Level event Prakalp - project competition of PIONEER 2022

ETESA Details (Electronics & Computer Engineering Student Association)

Electronics & Computer Engineering Student's Association (ETESA) 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.

Innovation 2K22-Technical event are organized every year with the objective to provide platform for the students to showcase their talent with a competitive spirit. The event was successful enough to attract as many as 324 participants from Maharashtra and Karnataka state. event completed in one day.

Rankers (CodeTrix)

Rank	Name	College name
1st	Sakshi Sachin Patil	SITCOE, Yadrav
2nd	Amit Lalli	Jain College of Engineering, Belagavi
	Chandrashekar Yargambalimath	
3rd	Shubhshri P. Kumbhar	SITCOE, Yadrav
	Akshata S. Chougule	

Rankers (Paper Presentation)

Rank	Name	College name
1st	Mrunal Patil	Jain College of Engineering, Belagavi
	Saniya Kamble	
2nd	Ajay Mannolkar	KLE Belgaum
3rd	Satyajeet Patil	DKTE, Ichalkaranji
	Sakshi Divate	



SHARAD INSTITUTE OF TECHNOLOGY, COLLEGE OF ENGINEERING, YADRAV

AN AUTONOMOUS INSTITUTE

UVA Grade Institute Accredited by NAAC, NBA Accredited Program / AN ISO 9001:2012 Accredited Institute



on 25th May, 2022

A National Level Technical Event...

Computer & Engineering

1. Name of Event: Paper Presentation
2. Subject: Computer & Engineering
3. Faculty coordinator: Mr. S. K. Patil
4. Venue: Sharad Institute of Technology, Yadrav
5. Date: 25th May, 2022

Basic Electronics & Instrumentation

1. Name of Event: Paper Presentation
2. Subject: Basic Electronics & Instrumentation
3. Faculty coordinator: Mr. S. K. Patil
4. Venue: Sharad Institute of Technology, Yadrav
5. Date: 25th May, 2022

Mechanical Engineering

1. Name of Event: Paper Presentation
2. Subject: Mechanical Engineering
3. Faculty coordinator: Mr. S. K. Patil
4. Venue: Sharad Institute of Technology, Yadrav
5. Date: 25th May, 2022

E & EC Engineering

1. Name of Event: Paper Presentation
2. Subject: E & EC Engineering
3. Faculty coordinator: Mr. S. K. Patil
4. Venue: Sharad Institute of Technology, Yadrav
5. Date: 25th May, 2022

Production Engineering

1. Name of Event: Paper Presentation
2. Subject: Production Engineering
3. Faculty coordinator: Mr. S. K. Patil
4. Venue: Sharad Institute of Technology, Yadrav
5. Date: 25th May, 2022

CAD Engineering

1. Name of Event: Paper Presentation
2. Subject: CAD Engineering
3. Faculty coordinator: Mr. S. K. Patil
4. Venue: Sharad Institute of Technology, Yadrav
5. Date: 25th May, 2022

Prizes Worth More than Rs. 1,00,000/-

Entry Fee Rs. 100/-
The Fee for all events

Dr. Shubham R. Shikharajkar, Faculty Coordinator | Dr. S. K. Patil, Faculty Coordinator | Dr. Sagar A. Khat, Faculty Coordinator | Prof. Dr. Anil A. Eggole, Faculty Coordinator | Prof. Dr. Rajendra S. Patil (Yadrav), Faculty Coordinator

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-2021-22, SEM-II)

Sr.No	Type of Visit	Name	Class	Conduction Date	Link/Address	Total Student
1	Offline	Mahavir Industry	S.Y., T.Y.	08/04/22	Parvati Real Estate, Yadrav	200
2	Offline	ISRO Bangalore	T.Y.	12/05/22	Banglore	51
3	Offline	Prasaditi Medical Equipment	S.Y.	11/05/22	Miraj MIDC, Miraj	98
4	Offline	SNR Electronics	T.Y.	14/05/22	Kupwad MIDC, Sangli	50
5	Offline	Hem Electronics	S.Y.	09/06/22	Miraj MIDC, Sangli	96



GUEST LECTURE SUMMARY/STUDENT ENRICHMENT PROGRAM

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

Sr No	Topic of guest/Expert Talk	Beneficiary Audience	Date/week of Conduction
1	The Applications of Labview	S.Y, T.Y, B.Tech	29-03-2022
2	Cloud Services (AWS)	S.Y., T.Y	01-04-2022
3	Latest Software Industrial trends	S.Y.	05-04-2022
4	Active Filters	S.Y.	09-04-2022
5	Introduction to sales force	T.Y, B.Tech	11-04-2022
6	Interfacing of ROM and RAM with 8085 Microprocessor	S.Y.	15-04-2022
7	Applications of 5G	T.Y., B.Tech	19/04/2022
8	Constitutionals studies for Engineer	S.Y.	27/04/2022
9	Intellectual Property Rights	M.Tech and Faculties	20/05/2022
10	Network essentials	T.Y.	02/06/2022
11	Speech coding techniques	T.Y.	05/06/2022
12	Speech coding techniques	T.Y.	04/06/2022
13	Image enhancement technique	T.Y.	10/06/2022
14	Introduction to neural network	T.Y.	10/06/2022

VALUE ADDITION PROGRAM

Our Department organizes value addition programs for improving the student's technical knowledge

Sl. No	Title	No. of Students	Duration	Resource person
1	"Machine Learning with Python Programming"	15	22.02.2021 To 10.03.2021	Mr. Bhosale Jayvardhan TECHNO PLUS LOGIC
2	"Cloud Computing & DevOps"	60	11.07.2021	Mr. Yuvraj Ravasa Sonale Decos Software Development Pvt. Ltd. Pune



INNOVATION CENTRE

1. CENTER 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 the Ministry of Skill Development. The Center of 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 of faculties, students, and non-teaching staff by providing appropriate training and bridging the gap between industry and academia.

CENTRE@SITCOE

In this center of Excellence, Mentor Graphics (A Siemens Business) provides the software tools worth a price of Rs. 50 Crore. The tools and software provided are Capital, Board Stations, Hyperlink Advanced, Hyperlink VRC, Source RY 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 successfully completing training.
- Students acquire the knowledge of making the startups.
- Students will be upgraded with the appropriate skill set.

2. TEXAS INSTRUMENT LAB

Exposure to state of the art technology through hands-on learning experience by using Microcontrollers such as MSP430 LAUNCH PADS, TIVA LAUNCH PADS, Educational Booster Pack MKII

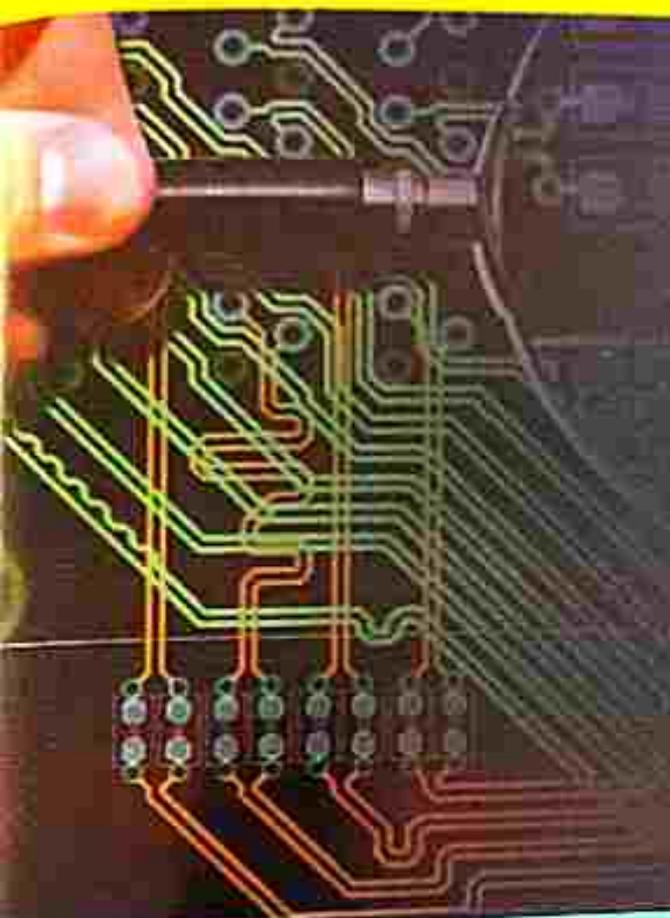
Objective: -To utilize the launch pad and booster packs kits which are up gradated versions of recent microcontrollers by Electronics & Telecommunication Engineering Students to develop an innovative project. Better employability opportunities to students in embedded system domain companies

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

Sr. No	Name of Activity	Name of Resource Person	Date	No. of Participants
1	Webinar on Campus Engagement Program for SITCOE		12/4/22 to 13/4/22	25

PCB DESIGN AND WIRELESS SENSOR NETWORK

PCB design and development is one of the important steps in product or system development for all electronics-based projects, 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

Outcomes and Activities:

Consultancy proposal has been accepted by SURYA Electronics Pvt. Ltd, for designing And manufacturing of 3000 PCBs within the agreement signed for the contractual span of a year till date 600 PCBs have been manufactured and handover.

Students training on LED strip Designing and Manufacturing, which has resulted in developing various products like LED strip manufacturing and Decorative LED light flower vase

Commercialization of Decorative LED light flower vase

Students training on PCB Designing & Manufacturing, which has resulted in creating their PCB for their mini project and final year project.

Activity Summary (2021-22) SEM -II

Sr. No	Activity	Class	Duration	
			From	To
1	PCB workshop for Mechatronics students (simulation and pcb design)	Second year SITCOE	22 March 2022	22 March 2022
2	PCB workshop for second year E&TC students Under ISTE (simulation and pcb design)	DIV - BY - A (E&TC)	12 April 2022	12 April 2022
3	PCB workshop for second year E&TC students Under ISTE (simulation and pcb design)	DIV - BY - B (E&TC)	13 April 2022	13 April 2022
4	PCB workshop for diploma mechatronics students (simulation and pcb design)	Second Year SITPOLY	07 May 2022	07 May 2022

4. E-Yantra Lab

OBJECTIVE

The objective is to provide hands-on Learning to engineering students who have limited access to labs and mentors to create the next generation of (Embedded systems) engineers from college with a practical outlook to tackle challenging problems and provide solutions.

OUTCOME

- The student will be able to construct robotic concepts (gesture robotics, sensor guided robotics, spy robotics, etc)
- The student will be able to examine the different behaviour of robotics.

Activities report of LAB

1. Total number of students registered : 92

2. Departments involved

Mechanical, Computer Science Engineering, and Electronics and Computer Engineering

3. Activities Done:

- Level 1: Students had completed their programming task
- Level 2: Students attended their (IIT) Lecture
- Level 3: We have got an IOT kit from IIT Bombay.
- Level 4: Attending IIT Videos

MINI PROJECT

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 learn knowledge and skills by working for an extended period to investigate and respond to an authentic, engaging, and complex question, problem, or challenge.

SY A

Sr. No	Name of Project
1	Smart Irrigation System
2	Solar Inverter
3	Smart Solar Planner Cleaner
4	Automatic Hand Sanitizer Machine
5	Advanced Solar Mobile Battery Charger
6	Solar Power Bluetooth Speaker
7	Intelligent Security and Safety System for Industries
8	IoT Based Irrigation
9	Solar Powered Battery Charging with Reverse Current Protection
10	Vehicle Overspeed Sensor
11	Obstacle Avoiding Robot Using L293N
12	Women's Safety Gadget
13	Smart Blind Stick using Arduino
14	Mobile Through Car Operating System using IoT
15	Bi-Directional Visitor Counter Using 7 Segment
16	IoT-Based Smart Door Lock System
17	Solar Power Monitoring System
18	Alcohol Detection with automatic engine Locking System
19	Automatic Room Light Controller Using Arduino and PIR Sensor

Sr. No.	Class	Total No. of Mini Projects
1	SY A	19
2	SY B	23
1	TY A	18
2	TY B	18

B

No	Name of Project
1	Arduino-Based Automatic Light ON-OFF Control System
2	Arduino-Based Digital Thermometer
3	Wireless Power Transmission
4	Automatic Street Light Control using LDR
5	Counting Products by using Colour Sensor
6	Wireless Mobile Charger
7	Invisible Security System
8	Temperature Controlled Fan
9	Bluetooth Controlled Home Appliance
10	Automatic Room Light using PIR Sensor
11	Automatic Rain Sensing Wiper
12	Automatic Plant Irrigation System using IC 555
13	Non-Contact AC Current Detector
14	Student Management System using Python
15	Laser Security Alarm System with Mirror Reflection
16	Voice Controlled Home Automation
17	Smart Power Bank for Home
18	Bluetooth Controlled Dustbin for Hospital Use
19	Bluetooth Controlled LCD Display
20	Heart Beat Sensor
21	Audio transmission using LED light
22	Touchless Doorbell System
23	Digitally Controlled Home Automation

TY A

Sr. No	Name of Project
1	Multiple services App
2	Motor control using DSM
3	Lidar Technology in a self-driving car
4	IoT-based weather monitoring system
5	IoT based Saline monitoring system
6	Solar Panel using cool cap
7	Colour sorting robot
8	Staircase light using Piezoelectric
9	Military Spy robot
10	Solar Dryer
11	Theft detection in Agriculture motors
12	E-Paper writing Arduino
13	ECG Sensor using Arduino
14	Android Bluetooth based Home automation
15	Library Management Using SQL
16	Temperature controller
17	Microstrip Patch Antenna for IEEE 802.11 applications
18	IoT-based Saline Monitoring system

TY B

Sr. No	Name of Project
1	Smart Home Security System
2	Agribot
3	AC Power Controller System
4	Advance Automatic Plant System Using IoT
5	Gas Leakage Detector
6	Fire Extinguisher Robot
7	Automatic Floor Cleaner Using Arduino
8	IoT-Based Home Automation System
9	Solar Power Monitoring System
10	IoT-Based Irrigation System
11	IoT-based Smart Agriculture
12	Li-Fi System
13	IoT-Based E-PUC System
14	IoT-Based Vehicle System
15	Weather Forecasting using HTML&Java
16	Moisture control using a Microcontroller
17	Android controls the car Jack
18	Patient Monitoring System using IoT

FACULTY OF DEPARTMENT

Sr.No	NAME OF FACULTY	EXPERIENCE	AREA OF SPECIALIZATION
1	Mrs Supriya P Kurlekar(Vice Principal)	23	VLSI
2	Mr. Kupade K. A.(Dean, IIPC)	12(Teaching),9.5(Industry)	VLSI System Design
3	Ms. Priya D. Ghate(Dean, FDP)	12	Communication
4	Dr. Pravin Kumar S. Palil(HOD)	24.5	Wireless communication, signal processing
5	Dr. S.T. Jadhav	19.5	Networking & Image Processing
6	Dr. Govind Singh Patel	18.5(Teaching), 2 (Industry)	VLSI and Signal Processing
7	Mrs. Dhanashri M. Biradar (Program Coordinator)	9	Embedded System
8	Mr. Rohan A. Chougule (Academic Coordinator)	10.5	Wireless communication
9	Ms. Sharda Y Salunkhe	13	Image processing
10	Mrs. Shital R. Ghorpade	15	Image Processing
11	Ms. Kalpana N Rode	17.5	communication
12	Ms.Madhuri B Mulik	15	VLSI And Embedded
13	Mr. Vaibhav V.Khandare	15	Image Processing
14	Mr.Mohan A. Chimanna	13.5(Teaching),2(Industry)	Antenna and Microwave Engineering
15	Mr. Manoj M. Babar	13	Embedded System
16	Dr. Sachin Surendra Gurav	10.5	Image and video
17	Ms. Madhuri N. Sachane	10.5	Image Processing
18	Mr. Diwakar M Tayagar	10	VLSI System Design, Embedded System
19	Ms. Halunde Swati S.	9.5	Image Processing, Wireless Communication
20	Mr. Ullas Jayakumar Maisale	9.5	Measurement, Communication, and PLC
21	Dr. K. Ghosh	11	RF & Microwave

SUPPORTING STAFF

Mr. A. S. Patil (B. E. Electronics)	Ms. Pooja Khawate (S.E.)
Mr. R. A. Sudhal (Dip. Electronics)	Ms. Shubhangi Chougule (S.E)
Mr. S. A. Jangate (Dip. Electronics)	Mr. Rahul Joshi (S.Tech)
Peon	Mr. Amol M. Karande



OUR PROFESSIONAL SOCIETY



Shri Shamrao Patil (Yadavkar) Educational & Charitable Trust's
SHARAD INSTITUTE OF TECHNOLOGY
COLLEGE OF ENGINEERING

Yadav (Ichalkaranji)
(Approved by AICTE, Govt. of Maharashtra and Affiliated to DBATU Lonere)

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