



Walchand Institute of Technology, Solapur Department of Electronics Engineering

Student Activities

Telecommunication and Electronics Students Association (TESA)

Faculty Coordinator: Mr. S.A. Utage, Mr. V.V.Anagire, Mr. P.Y.Kumbhar

TESA committee of the department works with the objective of developing the leadership qualities in individuals, some cohesive organizational skills and to enhance the technical skill. It also provides a platform for the students of the department to exhibit their talents.

Every year various guest lectures are organized by the committee such as walk in interview, preparation of various competitive exams, Project development cycle & Opportunities in Robotics industry, Pre-Placement Guidance Session and Career Guidance.

TESA also organized competitions like technical aptitude, project competition, problem statement contest, Mock placement drive, Circuitrix and technical poster making every year. Department students participate with great enthusiasm in all the events. Winners of the competitions are awarded certificates, trophies and cash prizes. All the activities are organized successfully by the students. TESA Faculty coordinator from department is allotted to guide the students in all respect.

Activities Conducted under Telecommunication and Electronics Students Association (TESA)

2025-26

Sr. No.	Activity	Date	Topic covered	No. of participants
1	TESA Office Bearer interview	20/08/2025	Personal Interview	24
2	Guidelines from Smart India Hackathon Winners 2024	28/08/2025	Understanding of hardware testing strategies used in competitive hackathon settings	51
3	Teachers Day Celebration	05/09/2025	Felicitation of faculties by students	87
4	SYNAPSE – Simulation Competition Event	30/09/2025	Understanding of electronic circuit concepts and simulation methodologies.	60
5	Expert Talk by: Mr. R.S.Khamitkar (DICETEKLLC)	05/03/2026	Introduction to simulation of ESP 32	70

1. TESA Office Bearer 20/08/2025,Wednesday

22-08-2025

**Walchand Institute of Technology, Solapur
TESA
(Telecommunication Electronics Student Association)**

CONGRATULATIONS

We are pleased to announce the selection of below students as TESA office bearers (*ECM*) for academic year 2025-26.

• **General Secretary-**

Ms. Rigvedi Patil (T.Y.-ECM)

• **Committee Members-**

Mr. Usman Nichalkar

(T.Y.-ECM)

Mr. Ishan Umarjekar

(T.Y.-ECM)

Mr. Sudarshan Kahate

(S.Y.-ECM)

Ms. Sakshi Vaidya

(S.Y.-ECM)

Mr. Shourya Varma

(S.Y.-ECM)



Mr.S.A.Utage
(Faculty Advisor)



Dr.S.R.Gengaje
Head
Department of Electronics Engineering

2. Guidelines from Smart India Hackathon Winners 2024

26 August 2025



Walchand Institute of Technology, Solapur
Telecommunication & Electronics Student Association (TESA)
(2025-26)
Notice

For S.Y. and T.Y. B.Tech. Students

Dear students,

Join us for an inspiring expert talk by the SIH 2024 winners, where they will share their journey, challenges, and experiences of turning ideas into impactful solutions.

Expert Talk By: 1. Ritesh Patil (Final Year ECM)
2. Varun Dornal (T.Y. ECM)
3. Ishan Umarjika (T.Y. ECM)
4. Omkar Awade (T.Y. ECM)
5. Rigvedi Patil (T.Y. ECM)

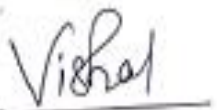
Topic : Decoding SIH (Smart India Hackathon)

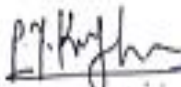
Day & Date : Thursday ,28/08/2025

Venue : Class room, M302

Time : 4pm to 5pm


Mr.S.A. Utage


Mr.V.V. Angire
(Faculty Coordinators)


Mr.P.Y. Kumbhar


Dr.A.V. Thalange
Head
Department of E&TC Engg.


Dr.S.R. Gengaje
Head
Department of Electronics Engg.



Objectives:

1. To share firsthand experience of participating in and winning the Smart India Hackathon 2024.
2. To provide students with insights into hardware testing techniques and its significance in the product development lifecycle.
3. To guide students on how to ideate, build, and present impactful solutions during hackathons.
4. To motivate students to participate in national-level technical competitions and enhance team collaboration skills.

Outcomes:

1. Students gained practical understanding of hardware testing strategies used in competitive hackathon settings.
2. Participants became more confident and motivated to participate in Smart India Hackathon and other national events.
3. Improved awareness among students regarding team management, problem-solving, and time-bound solution delivery.

Detailed Report:

On August 28, 2025, the **Telecommunication Students' Association (TESA)** organized an expert talk titled “**Guidelines from Smart India Hackathon Winners 2024 to Students**”. The event was specially conducted for **Second and Third Year Engineering students**, attracting a total of **51 participants**. The session was led by a team of past winners: **Mr. Ritesh Patil, Rigvedi Patil, Varun Dornal, and Omkar Awade**, who represented their institution and achieved recognition in **Smart India Hackathon 2024**.

The main focus of the session was to shed light on the practical challenges and solutions encountered during hackathon projects, especially those involving **hardware-software integration and testing**. The experts walked students through their journey from ideation to final presentation, sharing techniques, tools, and strategies that proved instrumental in their success.

The speakers also highlighted the importance of **team dynamics, role distribution**, and how to handle pressure under tight deadlines. Students actively engaged with the panel during the interactive Q&A, seeking advice on project ideas, technologies to explore, and tips for preparing for upcoming competitions.

3. Teachers Day Celebration:

04/09/2024, Thursday





4. SYNAPSE – Simulation Competition Event

SAPD Jain Pathshala's

Walchand Institute of Technology, Solapur

T.E.S.A. PRESENTS

SYNAPSE

SIMULATION COMPETITION EVENT.

ENTRY
FEES
100/-



Cash prizes for winners
E-Certificate for all
participants !!

SEARCH FOR THE SOLUTION.
SIMULATE THE CIRCUIT.
MEET THE CHALLENGE.

30 September

2 PM onwards
AICTEL lab (M2C9)

Scan the QR for
Details & Registration.



Open for all Students

Prerequisites - BEEE knowledge. All resources will be provided

Circuits based on basic components (timers, op-amps, etc.).

3 questions will be given – solve any 2.

Focus on neat circuit diagrams & proper simulation.

Contact

Prof. Dr. Chandra Shekar



Objectives:

- To provide students with a practical learning platform to apply theoretical knowledge of basic electronics in real-world circuit design and simulation.
- To enhance students' understanding of various circuit components, including operational amplifiers, timers, and logic circuits, through problem-solving and experimentation.
- To promote analytical and logical thinking by encouraging participants to develop optimized and efficient circuit designs.
- To strengthen participants' skills in using simulation tools for design verification and validation, which are essential in modern engineering practices.
- To cultivate teamwork, creativity, and technical communication among students while working collaboratively in a competitive environment.

Outcomes:

- Students developed a deeper understanding of electronic circuit concepts and simulation methodologies.
- The event helped participants enhance their ability to identify, analyze, and troubleshoot circuits using simulation software.
- Improved proficiency in handling simulation tools and interpreting output results accurately.
- Participants demonstrated improved communication and presentation skills while explaining their circuit logic and simulation outcomes.
- The event instilled confidence among students to participate in future technical competitions and pursue innovation-oriented projects.

Detailed Report:

The Telecommunication & Electronics Students Association (TESA) of Walchand Institute of Technology, Solapur organized a Simulation Competition titled “SYNAPSE” on 30th September 2025 at the AICTEL Laboratory (M209). The event began at 2:00 PM and witnessed enthusiastic participation from Third Year and Final Year B.Tech. students of the Telecommunication and Electronics Engineering departments.

The competition was aimed at assessing and enhancing the students’ skills in electronic circuit design and simulation. The participants were given three problem statements, each focusing on circuits based on timers, operational amplifiers, and other fundamental analog/digital components. Out of the three, participants were required to simulate and present any two circuits within the stipulated time frame.

All required resources, including simulation tools, were provided by the organizers. The evaluation criteria were based on the accuracy of circuit design, clarity of diagrams, correctness of simulation, and innovative approach to solving the given problems. The event received an overwhelming response, with 50 participants forming teams and demonstrating remarkable enthusiasm and teamwork. Students showcased strong analytical and logical reasoning skills while applying theoretical concepts in a simulated practical environment. The competition helped bridge the gap between classroom learning and real-world circuit implementation, emphasizing the importance of design validation and optimization. The event concluded with a prize distribution ceremony where cash prizes and E-certificates were awarded to the winners and participation certificates were distributed to all participants.

Winners:

First Prize:

- Ms. Mrunali Wadkar (S.Y. ECM)
- Ms. Sanchita Patil (S.Y. ECM)

Second Prize:


- Mr. Krishna Singan (Final Year ECM)
- Mr. Varun Dornal (T.Y. ECM)

Third Prize:

- Ms. Sanika Shirote (S.Y. ECM)
- Ms. Renee Palsapure (S.Y. CSE)


5. Expert Talk by: Mr. R.S.Khamitkar: Introduction to simulation of ESP 32

4th March 2026



Walchand Institute of Technology, Solapur
Telecommunication Electronics Student Association (TESA)

Invites S.Y. and T.Y.B.Tech. Students




Expert Lecture By: Dr. Ravikanth Khamitkar

Topic : Introduction to simulation of ESP 32


Day & Date : Thursday 05/03/2026

Venue: Class room, M308

Time: 2.15 pm



Mr. S.A. Utage
(Faculty Advisor)



Dr. S.R. Gengaje
Head
Department of Electronics Engineering



Objectives:

1. To introduce students to the ESP32 microcontroller and its applications in IoT systems.
2. To demonstrate simulation techniques for ESP32-based projects.
3. To provide hands-on knowledge of tools and platforms used for ESP32 programming and simulation.

Outcomes:

1. Students gained basic understanding of ESP32 architecture and its features.
2. Students learned about simulation tools and methods for testing IoT applications virtually.
3. Students developed interest in building IoT-based projects using ESP32.

Detailed Report:

On March 5, 2026, an expert talk on “Introduction to Simulation of ESP32” was organized for S.Y., T.Y., and B.Tech. students. The session was conducted by Mr. R. S. Khamitkar, who provided an in-depth introduction to the ESP32 microcontroller and its role in Internet of Things (IoT) applications.

The expert demonstrated how simulation tools can be used to design, test, and validate ESP32-based projects without requiring physical hardware. He explained programming concepts,

interfacing techniques, and real-time applications such as smart systems and automation. The session included practical insights into software platforms used for simulation and development.

A total of 70 students attended the session and showed keen interest in learning about IoT technologies. The expert talk was highly informative and helped students understand the importance of simulation in embedded system design, encouraging them to explore innovative project ideas using ESP32.

2024-25

Sr. No.	Activity	Date	Topic covered	No. of participants
1	TESA Office Bearer interview	29/08/2024, Thursday	Personal Interview	10
2	Teachers Day Celebration	05/09/2024 Thursday	Felicitation of faculties by students	84
3	ROBOMETRIX-2K24 Introduction to Basic Components	17/10/2024 Thursday	Participants acquired a basic comprehension of fundamental elements required to build the robots.	43
4	ROBOMETRIX-2K24 Robo Race Bot Circuit Design and Coding	18/10/2024 Friday	Participants learned to interpret and implement a circuit diagram.	47
5	ROBOMETRIX-2K24 Robo Race Bot Hands-on-Practicing	19/10/2024 Saturday	Students demonstrated their skills in building bots.	26

3. TESA Office Bearer 29/08/2024, Thursday

CONGRATULATIONS

We are pleased to announce the selection of below students as TESA office bearers (*ELN*) for academic year 2024-25.

- **General Secretary-**
Mr. Satvik Totad (Final Year)
- **Treasurer**
Mr. Ritesh Patil (Third Year)
- **Social Media Handler**
Ms. Akanksha Potabatti (Third Year)
- **Committee Members-**
Mr. Paras Deshmane (Final Year)
Ms. Sachita Patil (Third Year)
Mr. Varun Dornal (Second Year)
Ms. Rigvedi Patil (Second Year)


Mr. S.A. Utage
(Faculty Advisor)


Dr. S.R. Gengaje
(Head, Eln Engg. Dept.)

4. Teachers Day Celebration 05/09/2024, Thursday

THOUGH YOU WROTE IN BLACK AND WHITE
YOU BOUGHT COLOUR IN MY LIFE..

Teachers Day

INVITING YOU TO JOIN US ON
THIS SPECIAL OCCASION

SEPTEMBER
THURSDAY **05** AT 2:30 PM
2024

DEPARTMENT OF ELECTRONICS
ENGINEERING
W.I.T. SOLAPUR
VENUE: CLASSROOM M308



3. ROBOMETRIX-2K24 Introduction to Basic Components

17/10/2024, Thursday

- **Objective:** To introduce participants to the fundamental components needed for building robots.
- **Event Images:**



4. ROBOMETRIX-2K24 Robo Race Bot Circuit Design and Coding

18/10/2024, Friday

- **Objective:** To teach participants the Robo race bot's circuit diagram and provide the necessary code.
- **Activities:**
 - **Detailed Circuit Explanation:**
 - Walkthrough of the Robo race bot's circuit diagram, explaining how the components connect.
 - Understanding the roles of motors, sensors, and driver modules in the race bot.
 - **Code Distribution:**
 - Providing participants with the base code to control the Robo race bot.
 - Explanation of key aspects like motor control, speed management, and sensor input.
- **Event Images:**



5. ROBOMETRIX-2K24 Robo Race Bot Hands-on-Practicing

19/10/2024, Saturday

- **Objective:** To engage students in a competitive activity to build the Robo race bot in real-time.
- **Activities:**
 - **Competition Format:**
 - Selected participants competed head-to-head in a group to assemble and program the Robo race bot.
 - **Team Collaboration:**
 - Emphasis on teamwork, problem-solving, and quick debugging.
 - **Hands-On Building:**
 - Participants started assembling the full Robo-race bot according to the provided circuit and code.
- **Event Images:**





Activities Conducted under Telecommunication and Electronics Students Association (TESA)

2023-24

Sr. No.	Activity	Date	Topic covered	No. of participants
1	TESA Office Bearer interview	26/08/2023, Saturday	Personal Interview	8
2	Teachers Day Celebration	05/09/2023	Felicitation of faculties by students	75
2	Guest Lecture by: Mr. Rohit Palli (DICETEKLLC)	14/10/2023 Saturday	Cognizance lecture on software testing	63
3	Guest Lecture by: Mr. Shivram Madur CRIF Solution India Pvt.Ltd.	10/02/2024, Saturday	Job opportunities in IT industry	59

- **Teacher day celebration**



2022-23

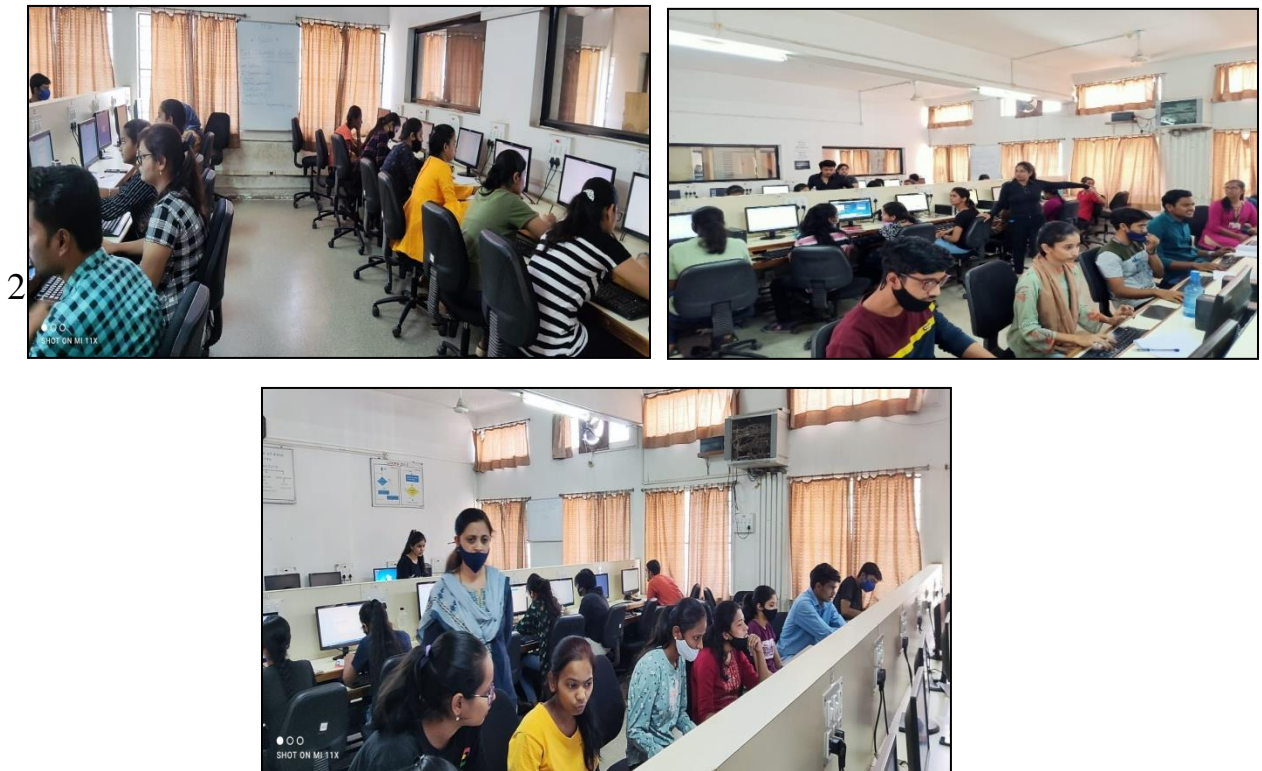
Sr. No	Activity	Date	No of Participants
1	Guest Lecture by Mr.Prabal Jain, NXP Semiconductor, Bangalore. Topics : Career in VLSI Industry	18/8/2022	62
2	Robo Race Event	8/10/2022	13 Teams (Max 3 Students)
3	Seminar on IEEE Membership Topics : Internet of Things : Opportunities & Challenges	23/11/2022	92
4	Guest lecture by Anurag Jain & Deepan Lodha, TCS , Bangalore Topics: Career in Software Engineering.	29/12/2022	47
5	Guest lecture by Ayush Jain , Infosys Ltd & Tanmay Jain, TCS , Bangalore Topics: Job opportunities in Core Industry	2/1/2023	61

2021-22

1. IT Industry, a Mock Placement Drive was conducted by the TESA The event organized in 2 rounds:

1. Aptitude + Coding.
2. Interviews.

First round was conducted on 31/3/2022 with 121 entries. Round 2 was conducted on 1/4/2022 with 13 shortlisted students



2. A guest lecture by **Nikhil Bidkar**, Program Manager – Operations Planning, eShakti.com, Delhi was arranged on 1st April 2022 under Telecommunication and Electronics Students Association (TESA). The Chief Guest for this lecture was Mr. Nikhil Bidkar, the Program Manager on Operating Planning at eShakti.com. Near about 121 students attended this guest lecture



3. A guest lecture on “The future of Renewable Energy and scope for Engineers” by Ayesha Shaikh, M.D., Shams Energy was organized by TESA on 18th April 2022



4. “Identify the Problem First”, creative and innovative contest conducted by TESA on 30th April 2022. Problem statement using the google form link were submitted by students. Top three problem statements were rewarded

Activities Conducted by Department

2025-26

- On August 23, 2025, a “Workshop on PCB Design” was organized for S.Y. and T.Y. (ECM) students. The session was conducted by Mr. Shantanu Maske, Operational Executive at PHN Technology Pvt. Ltd., Pune, with expertise in PCB design and embedded systems. A total of 30 students actively participated in the workshop
- Industrial Visit to ‘Vishwa Industries’ was arranged for S.Y. (ECM) on 17th August 2025. A total of 17 students and faculty Mr. S.C.Kalshetti visited the industry.
- Industrial Visit to ‘Himalaya Textiles, Solapur’ was arranged for S.Y. (ECM) on 30th September 2025, A total of 17 students and faculty Mr. S.C. Kalshetti accompanied with students for this visit
- Industrial Visit to ‘Sunil Industries, Solapur’ was arranged for S.Y. (ECM) on 11th October 2025. A total of 17 students and faculty Mr. S.C. Kalshetti accompanied with students for this visit.
- Industrial Visit to ‘Roopam Weaving Mill’ was arranged for T.Y. (ECM) on 13th March 2026. A total of 37 students and faculty Mr. S.A. Utage visited the industry.

2024-25

- The **Two-Day National Level Workshop on "Recent Trends in AI with IoT Perspective"** was conducted from **31st January 2025 to 1st February 2025** by Electronics Engineering Department at **Walchand Institute of Technology, Solapur**, in association with **Punyashlok Ahilyadevi Holkar Solapur University, Solapur**. A total of **43 participants** attended the workshop, including students, faculty members, and industry professionals.
- Special awareness program was arranged by Telecom Regulatory Authority of India (TRAI) Bengaluru on 26th March 2025 for S.Y.(ECM) and T.Y.(ECM). A total 70 **participants** attended the workshop.
- Presentation activity was organized for SY (ECM) students on various contemporary topics on 6th Feb 2025. A total of 32 students participated in this event
- Debate activity was organized for SY (ECM) students on various contemporary topics on 8th Feb 2025. A total of 25 students participated in this event
- Industrial Visit to ‘Vishwa Industries, Solapur’ was arranged for S.Y. (ECM) on 20th August 24. A total of 20 students and faculty Mr. S.C.Kalshetti accompanied with students for this visit
- Industrial Visit to ‘Betul Oil Limited, Solapur’ was arranged for S.Y. (ECM) on 11th January 25. A total of 30 students and faculty Mr. S.C.Kalshetti accompanied with students for this visit.
- Industrial Visit to ‘Om Agro-Tech,Sangli’ was arranged for S.Y. (ECM) on 17th January 25. A total of 28 students and faculty Mrs. D.P.Wadkar visited the industry.

2023-24

1. Industrial Collaborated Internship Training Program of 3 months for Final Year (Electronics Engineering and Electronics and Telecommunication Engineering) on 'Full-Stack Web Development' was organized by Department of Electronics Engineering in technical collaboration with Agency09 Pvt. Ltd., Mumbai and Agrawal Technologies Limited, Solapur from 1st February to 30th April 2024. Total of 30 students enrolled for this activity
2. Department of Electronics Engineering has organized an Industrial visit to Sathe Engineering Company, Bale, Solapur on 24th February, 2024. Total 54 students participated in this visit and are accompanied by 2 faculty members of the Department.

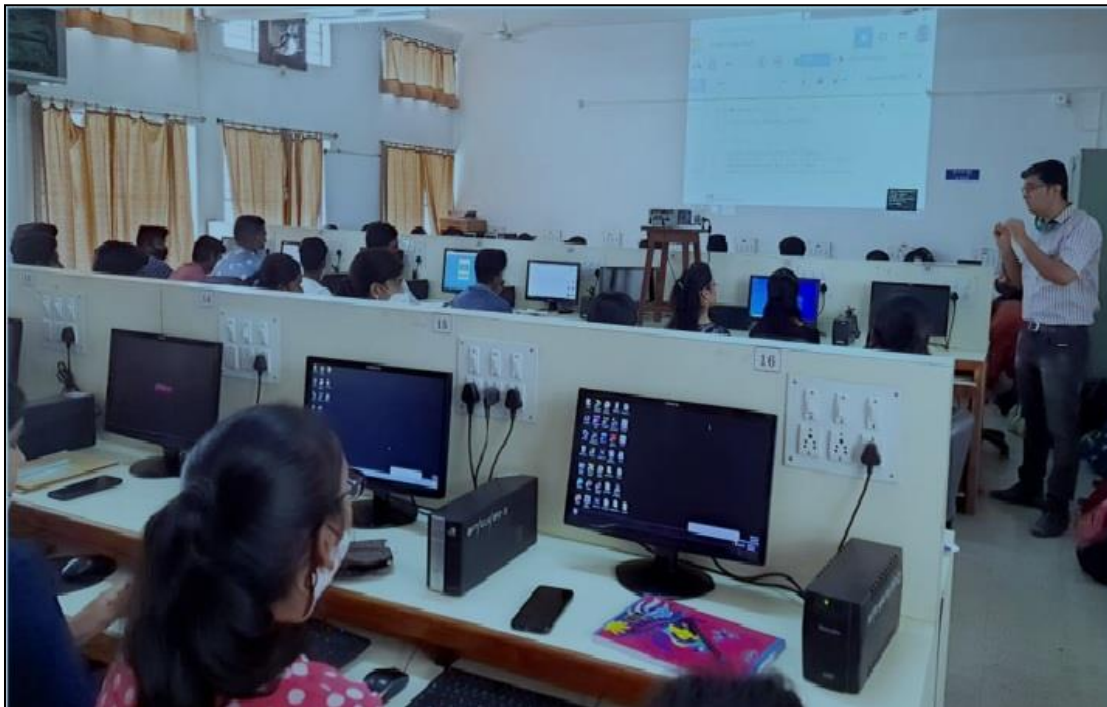
2022-23

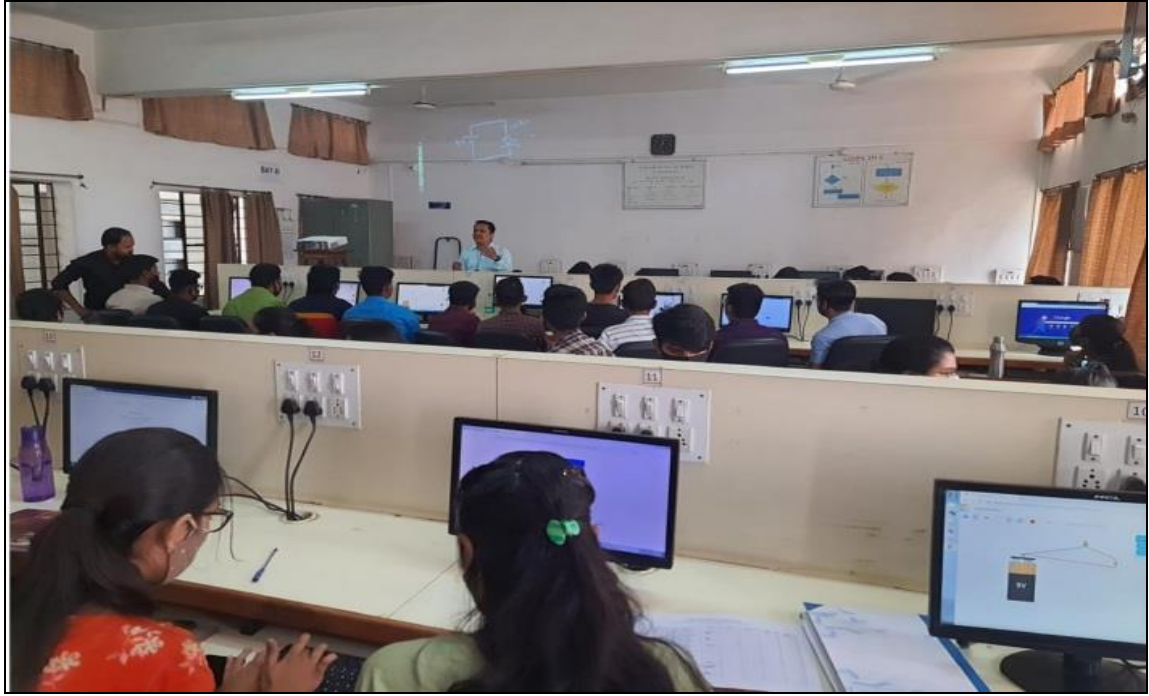
1. Industrial Collaborated Internship Training Program of 15 days on 'IOT Full- Stack Development Bootcamp (Using Angular + AWS + ESP32) was organized by Department of Electronics Engineering and Department of Electronics & Telecommunication Engineering, in technical collaboration with RMTAG Solution LLP, Bangalore and Saksham Medicare Equipments and Services, Solapur from 17th August to 3rd September 2022
2. Industrial Visit to "Bhumi Radio Station, Solapur" was arranged for SY (ECE) on 11/12/2022 by Department of Electronics Engineering. A total of 45 students were present for this visit. Dr. R.J. Shelke was the faculty coordinator for this activity
3. Open Debate Competition was conducted for TY (Electronics) and TY (Electronics and Telecommunication) on 1/10/2022 on three different topics – E_commerce – a necessary evil!, Online learning in colleges is the way of the future and Technology is increasing people's quality of life. A total of 20 students participated in this activity. Dr. S.R. Gengaje was the faculty coordinator for this activity
4. Presentation Competition was conducted for TY (Electronics) and TY (Electronics and Telecommunication) on 15/10/2022 on topic – "Case Study of an Indian Fintech Company". A total of 20 students participated in this activity. Dr. S.R. Gengaje was the faculty coordinator for this activity
5. Presentation Competition was conducted for SY (ECE) by Department of Electronics Engineering on various state of the art topics on 25/11/2022. A total of 20 students participated in this activity. Mr. S.C. Kalshetti was the faculty coordinator for this event
6. Debate Competition was conducted for SY (ECE) by Department of Electronics Engineering on various on 26/11/2022. A total of 42 students participated in this activity. Mr. S.C. Kalshetti was the faculty coordinator for this event
7. A guest lecture on 'Ethical and Social Issues related to IT' by Mrs. Smita J. Chakote, MBA (HR & Marketing) was conducted for TY (Electronics) and TY (Electronics and Telecommunication) on 20/12/2022. A total of 72 students were present for this event
8. Industry Expert lecture on 'Career with Salesforce' by Mr. Navid Bakshi, Success Engineer, Salesforce Hyderabad was conducted for TY (Electronics) and BE (Electronics) on 13/12/2022. A total of 53 students were present for this event

9. Industry Expert lecture on ‘Career in Core Electronics Engineering’ by Mr. Shridhar Duddam, Smart Logic, Pune was conducted for TY (Electronics) on 28/11/2022. A total of 32 students were present for this event

2021-22

1. Induction/Refresher Programme on “Low Power VLSI System Design” was conducted by Department of Electronics Engineering sponsored by AICTE – ISTE on 10th and 15th January, 2022 with a total of 90 participants. Dr. S.R. Gengaje and Mr. R.N. Chavan were the coordinator for this event
2. Five days workshop on “ARDUINO and CAD Tools for Digital Innovation” for S.Y. B. Tech. students of Electronics & Telecommunication Engineering and Electronics Engineering was organized by Electronics and Electronics & Telecommunication Engineering, Walchand Institute of Technology, Solapur conducted under Institution’s Innovation Council (IIC) held from 7th March to 14th March 2022. A total of 175 students attended this workshop





3. “Innovative Circuit Simulation Contest” for SY and TY Students was organized by Electronics and Electronics & Telecommunication Engineering, Walchand Institute of Technology, Solapur conducted under Institution’s Innovation Council (IIC) and TESA held on 12th July and 15th July 2021

Guest Lecture/ Seminars/Webinars conducted :

<i>Sr.</i>	<i>Name of Expert</i>	<i>Topic</i>	<i>Class</i>	<i>Date</i>	<i>No. of participants</i>
1.	Mr. Govind Kumar	Career in Cloud Technology Preparation	B.E.	19/08/2021	57
2.	Dr. Pratap Sanap	Current Trends in the Market & Preparation	B.E.	05/08/2021	52
3.	Mr. Pulkit Vaya	Preparation for Interview	B.E.	17/10/2021	40