



Shri Shamrao Patil Yadravkar Educational & Charitable Trust's

## Sharad Institute of Technology College of Engineering

An Autonomous Institute  
 NBA Accredited Programmes. An 'A' Grade Institute Accredited By NAAC,  
 An ISO 9001:2015 Accredited Institute.  
 Recognized u/s 2(f) & 12(B) of The UGC Act 1956

DEPARTMENT OF AUTOMATION AND ROBOTICS



### INSIGHT

#### A NEWSLETTER

- ⇒ Industrial Interaction
- ⇒ Expert talks
- ⇒ ARESA Events
- ⇒ Value added programmes
- ⇒ Project Based Learning
- ⇒ Students achievements
- ⇒ DAAB, BOS Meeting
- ⇒ Faculty Achievements



**Hon Dr. Rajendra Patil (Yadravkar)**  
 Chairman  
 Shamrao Patil (Yadravkar)  
 Education & Charitable Trust



**Hon Mr. Anil Bagane**  
 Executive Director  
 Shamrao Patil (Yadravkar)  
 Education & Charitable Trust



**Dr. S. A. Khot**  
 Principal



**Dr. G. S. Patel**  
 HOD, Automation & Robotics

## ❖ EDITOR'S MESSAGE

### From Faculty Editor Desk



Dr. George Rapheal,  
Assistant Professor,  
Dept of Automation and  
Robotics

Dear Readers,

It is indeed a great honor to be the editor of “INSIGHT” Newsletter from the Department of Automation & Robotics, SITCOE. And it is an immense pleasure to present you the Vol. 1 Issue 1 of AY 2024-25. Our commitment is to put forth two issues of Newsletter in a year. I convey my heartfelt thanks to all who have contributed for this issue of “INSIGHT” including faculty and our students, without which this newsletter issue wouldn't have been published. Most importantly, I would express my sincere gratitude to Hon. Executive Director, The Principal, Head of the Department and Faculty members for their everlasting encouragement and support throughout the creation of this edition.

### From Student Editor Desk



Mr. Yashvardhan Shirgave

Dear Readers,

We are delighted to bring out the Vol. 1, Issue 1 of our Newsletter “INSIGHT”. Our Faculty have diligently involved in encouraging and motivating students for a bright future. I am glad that I could assist the faculty in the preparation of this Newsletter. I express my sincere thanks to our Department Faculty members and my team members for helping me in the preparation of this issue of “INSIGHT” Newsletter for the AY 2024-25

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### From Executive Director Desk:

I am happy and glad that Sharad Institute of Technology College of Engineering, Department of Automation and Robotics is releasing out "INSIGHT" Newsletter Vol. 1 Issue 1 for the AY 2024-2025. Bringing out a department "INSIGHT" Newsletter will definitely help to showcase the activities like Autodesk, Technical events, Industrial Visits, Expert talk etc., that are happening in the department campus. It also helps in building up teamwork which is very much needed today in the world of competition. It provides a platform for exposing the merits and academic achievements of the faculty and students. This enhances the documentation culture of the institute. This newsletter includes highlights of Automation and Robotics department with perspective of technical event achievements, faculty achievements, professional society events and activities, etc. I hope that this culture of releasing Newsletter continue forever and become a quoted example for all other colleges to follow.

### From Principal Desk:

I am extremely delighted to know that faculties and students of Automation and Robotics Engineering Department of Sharad Institute of Technology College of Engineering, bringing out their departmental "INSIGHT" Vol. 1 Issue 1 Newsletter for the AY 2024-2025. This will benefit all the students as they can now be aspired for greater heights by knowing about their Department's achievements. Students and faculties have exhibited a great zeal and enthusiasm and have contributed significantly in various technical activities. The editorial team has initiated something that will continue to help and guide present and upcoming students of the Department. Personally, I feel that students of Sharad Institute of Technology College of Engineering should set standards and create environment so that they excel in their areas of interests and accordingly guide more and more SITCOE ians in future.

### From Head of the Department Desk:

I feel happy to introduce fourth issue of "INSIGHT" 2024-2025 Issue 1 prepared by faculty and students of Automation and Robotics Department. Our Automation and Robotics Engineering department has been consistently working towards the goal to produce highly skilled and scientifically oriented manpower through flexible, adaptive and progressive training programs along with cohesive interaction with the research organizations, academicians and industries. "INSIGHT" provides good platform for student to update their technical skills. I congratulate "INSIGHT" team for their efforts in launching first issue of year 2024-2025. Wish you all a happy learning here.

## Vision, Mission and PEOs of the Department

### VISION:

To be a centre of excellence in Automation and Robotics 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.

## Educational Objectives (PEOs)

Graduates of the programme will:

**PEO I:** Equip young minds to as proficient engineers with strong foundation fundamental in Automation and Robotics with application of mathematics ,science and engineering fundamentals

**PEO II:** Develop ability to Design, Develop and programme a robot for variety of engineering and multidisciplinary application using state of art tools and technologies

**PEO III:** Make the graduates to understand the need to engage in life long learning ethically so as to appreciate to current issues and develop solutions for cognizant problem for betterment of society.

## Industrial Interaction

A conducted industrial visit is a planned excursion to a particular company or industrial facility, typically organized for educational or professional purposes. Industrial Visit is vital part of the curriculum. The purpose of industrial visit for students is to keep abreast with the technological development in the industry and to understand the gap between the theoretical and practical knowledge that could be passed to the society. These visits are commonly organized by educational institutions, businesses, or industry associations to enhance knowledge, skills, and networking opportunities for students, professionals, or interested individuals. During such visits, participants are guided through the facility to gain firsthand insights into the company's operations, technology, processes, and products. The visit may include interactions with company personnel, presentations, and opportunities to ask questions. Conducted industrial visits offer valuable learning experiences, helping participants understand real-world industrial practices and fostering a deeper appreciation for various industries and their contributions to the economy. It helps to bridge the gap between classroom and real technological world.

Industry interaction refers to the collaboration and engagement between businesses or organizations within a particular industry or across different industries. This interaction can take various forms and can be essential for the growth, development, and innovation within the industry. Here are some key aspects of industry interaction:

- 1. Networking:** Industry interaction often involves networking events, conferences, trade shows, and seminars where professionals from different companies and sectors come together to share knowledge, ideas, and experiences. These events provide opportunities for building relationships and partnerships.
- 2. Collaboration:** Businesses within an industry may collaborate on projects, research, or initiatives to address common challenges or capitalize on new opportunities. Collaborative efforts can lead to innovation and the development of new products or services.
- 3. Information Sharing:** Industry interaction facilitates the exchange of information, best practices, and market intelligence. This sharing of knowledge helps businesses stay informed about industry trends, regulatory changes, and emerging technologies.
- 4. Standards and Regulations:** Industries often work together to establish industry standards and regulations. These standards ensure consistency, safety, and quality across products and services, benefiting both businesses and consumers.

Effective industry interaction can lead to a more vibrant and competitive business environment, benefiting both individual companies and the industry as a whole. It fosters innovation, enhances efficiency, and helps businesses adapt to changing market conditions.

In conclusion, industrial visits are invaluable educational and professional experiences that bridge the gap between theoretical knowledge and practical application. These visits provide participants with real-world insights into various industries, fostering a deeper understanding of industry practices, technologies, and trends. They offer numerous advantages, including enhanced learning, exposure to industry professionals, networking opportunities, and career insights. Industrial visits empower students, professionals, and individuals with the knowledge and motivation to excel in their chosen fields. Overall, industrial visits play a vital role in education, skill development, and career growth, making them a valuable component of learning and professional development programs.

<b>S. No.</b>	<b>Name of Industry</b>	<b>Date of Visit</b>	<b>Class</b>
1	Gokul Dudh Kolhapur Zilla Sahakari Dudh Utpadak Sangh Ltd.	06/07/2024	S.Y.
2	Pragati Automation, Hathkanangale	10/08/2024	T.Y.
3	Sound Castings	29/08/2024	T.Y.
4	GMT Yadrav	05/10/2024	S.Y.
5	Bhudhale & Bhudhale Gokul Shirgaon	10/10/2024	B.Tech.
6	Kolhapur foundry & Engineering cluster	10/10/2024	B.Tech.
7	ISRO Bengaluru	17/10/2024	S.Y. & T.Y.
8	AMS Bengaluru	18/10/2024	S.Y. & T.Y.

## Glimpses of Industrial Visit

**Industry:**

**Gokul Dudh Kolhapur Zilla Sahakari Dudh Utpadak Sangh Ltd.**

**Date of Visit: 06/07/2024**



### **Details of the visit:**

Kolhapur Zilla Sahakari Dudh Utpadak Sangh Ltd, well known with its popular brand 'Gokul' is an Operation flood cooperative dairy project established on 16<sup>th</sup> March 1963. Since then the brand has achieved many land marks in milk procurement, extension, animal health, breeding, milk processing, product making and marketing. At present Gokul has modern 17 lakh litres/day capacity dairy plant, satellite dairy at Udgaon, taluka shirol and 4 owned chilling centers having total 8 lakh litres/day milk capacity in addition to a modern packing unit at Navi Mumbai.

**Industry:**

**Pragati Automation Hathkanangale**

**Date of Visit: 10/08/2024**



**Details of the visit:**

Registered in 2012, Pragati Automation India Pvt. Ltd. has gained immense expertise in supplying & trading of Automatic tool changers, tool turrets etc. The supplier company is located in Ichalkaranji, Maharashtra and is one of the leading sellers of listed products. Pragati Automation India Pvt. Ltd. Stocks a wide variety of quality Automatic tool changers, tool turrets, and are also available for bulk sales in competitive prices, and after sales service.

**Industry:**

**Sound Castings**

**Date of Visit: 29/08/2024**



**Details of the visit:**

Sound castings has strong presence in automotive sector for complex and critical machined ductile and grey cast iron castings. Sound Castings is an IATF 16949:2016 certified manufacturer with a capacity of 5500 MT/month. The firm has fully integrated casting and machining operations within environment friendly foundries and machine shops assisted by technical and strategy expertise available with top management. The firm entered into technical assistance agreement with RYOBI Ltd, a large Japanese Die Casting company having global operations in 2017.

**Industry:**

**GMT Yadarv**

**Date of Visit: 05/10/2024**



**Details of the visit:**

GMT (General machine Tools) Corporation Pvt. Ltd. is an ISO 9001 Company inceptioned in 1989. GMT Corporation Pvt. Ltd. is a technologically driven company with a significant emphasis on engineering and automation skills. 'GMT' has established as a reliable partner for their customers by providing Automotive Components, Heavy Diesel Engine Components, Off-highway Components, Air Compressor & Pumps, Aerospace Components, EV Parts & other special segment for various reputed customers across the globe. The firm manufactures Levers, Rockers, Pulleys, Shafts, Flywheels, Manifolds, Sleeves, Cylinders, Stator, Brackets, Impellers, Bodies & Mounts of various engine parts and over 500 + variety of components.

**Industry:**

**Bhudhale & Bhudhale Gokul Shirgaon**

**Date of Visit: 10/10/2024**



**Details of the visit:**

Established in 1967, company group supplies sheet metal press components to prominent OEMs of Indian and overseas in automotive, telecommunication, health-care, appliances and engine sectors with consistent growth in range volume and values. The trust of company customer in the quality of our products and services are our strengths. The organization is engaged in developing & manufacturing of products for automotive and other applications like telecommunication segment, Engine division, Motor Division, Health care Division etc. The product line includes Oil Engine Parts, Fuel Tank Assembly, Sheet Metal Fabricated Parts, Automotive Chassis Deep Drawn Components, Suspension Parts, Brake Plates, Brake Pedal Assembly etc.

**Industry:**

**Kolhapur foundry & Engineering cluster**

**Date of Visit: 10/10/2024**



**Details of the visit:**

Since long, the Govt. of India have been endeavouring to promote industrial growth in our country, through various types of schemes. However, due to rapid changes and challenges thrown by the "Globalization", the Govt. of India moved further to accelerate the process of industrial development and designed a new scheme viz., Industrial Infrastructure Upgradation Scheme (I.I.U.S.), under the Ministry of Commerce & Industry. Since Kolhapur has a strong base of the Foundry and allied Engineering Industries, the Govt. of India were kind enough to select "Kolhapur Foundry and Engineering Cluster", as one of the clusters to extend the benefits of the new scheme. The scheme envisages improvement of physical infrastructure in selected industrial locations, which have potential to become globally competitive. Initial instructions of this scheme were received around Jan. 2003. The initiative is aimed at upgrade the existing industrial infrastructural facilities around Kolhapur, so as to accelerate the export and to provide maximum employment to the local labour.

**Industry:**

**ISRO Bengaluru**

**Date of Visit: 17/10/2024**



**Details of the visit:**

The Department of Space (DOS) has the primary objective of promoting development and application of space science and technology to assist in all-round development of the nation. Towards this, DOS has evolved the following programmes:

- Launch Vehicle programme having indigenous capability for launching spacecrafts.
- INSAT Programme for telecommunications, broadcasting, meteorology, development of education etc.
- Remote Sensing Programme for application of satellite imagery for various developmental purposes.
- Research and Development in Space Sciences and Technology for serving the end of applying them for national development.

Organisation: With the setting up of Indian National Committee for Space Research (INCOSPAR) in 1962, the space activities in the country were initiated. In the same year, the work on Thumba Equatorial Rocket Launching Station (TERLS) near Thiruvananthapuram was also started. Indian Space Research Organisation (ISRO) was established in August 1969. The Government of India constituted the Space Commission and established the Department of Space (DOS) in June 1972 and brought ISRO under DOS in September 1972.

**Industry:**

**AMS Bengaluru**

**Date of Visit: 18/10/2024**



**Details of the visit:**

Advance Mechanical Services is a technology conglomerate providing solutions and services around Automation and Engineering to its customers worldwide. The Company is backed by decades of experience providing technology solutions in the areas such as CAD/CAM/CAE/PLM, Design Engineering, Controls Engineering, Automation, Robotics programming, Manufacturing Process Planning and Management, Program/Project management & Digital Manufacturing (specifically applicable to Automotive, Aerospace, Heavy Engineering and General Industries).

## Expert Talks

Expert talks provide valuable insights, latest trends, and practical knowledge from industry leaders. They help attendees stay updated, enhance their skills, and explore new career opportunities, fostering professional growth and informed decision-making in their respective fields.

S. No.	Topic for Expert Talk	Expert Name & Designation	Date	Class	No. of Beneficiaries
1	Geometric Dimensioning and Tolerancing	Mr. Jeevan Desai, CAD Axis solutions, Ichalkaranji	3 July 2024	SY & TY	82
2	Career Opportunities in AI and Abroad Studies	Dr. Prasad Rayamane, R&D Department, European Innovation & Development, UK	9 Aug 2024	TY & B.Tech	76
3	Strategy, planning and execution for competitive exams	Mr. Sheetal Kumbhar, Union Bank of India, Pune	3 Sep 2024	TY & B.Tech	74
4	Ideas into project execution and patent	Mr. Vinayak Yadav M.Tech. (IIT, Indore) Director, Pioneer Academy, Kolhapur	18 Sep 2024	TY	78
5	Design, Innovation and Research	Mr. Rushikesh Shrikrushna Khandkole, Assistant Manager, Man bus and Trucks, Pune	21 Sep 2024	SY & TY	82
6	GATE 2025, preparation, Summary of control systems course, techniques to crack exams.	Mr. Parag V. Datar, Head of Department Electrical & Electronics Engineering, K.L.S. Gogte Institute of Technology, Udyambag, Belgavi	27 Sep 2024	SY & TY	92
7	Preparation strategies for state and Central Competitive exams	Mr. Isharak Najir Mujawar, Assistant Section Officer, Mantralay, Mumbai	13 Nov 2024	TY & B.Tech	81

Overall, the events promise to be an enriching experience, offering valuable knowledge and practical insights into a wide range of topics from leading professionals in their respective fields.

**Glimpses of Expert Talks**



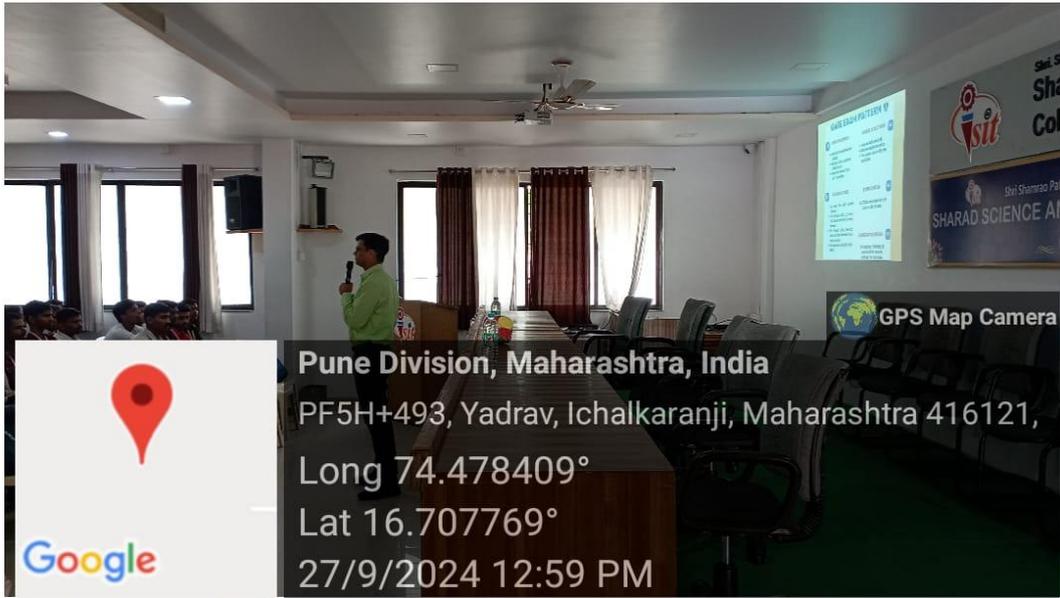




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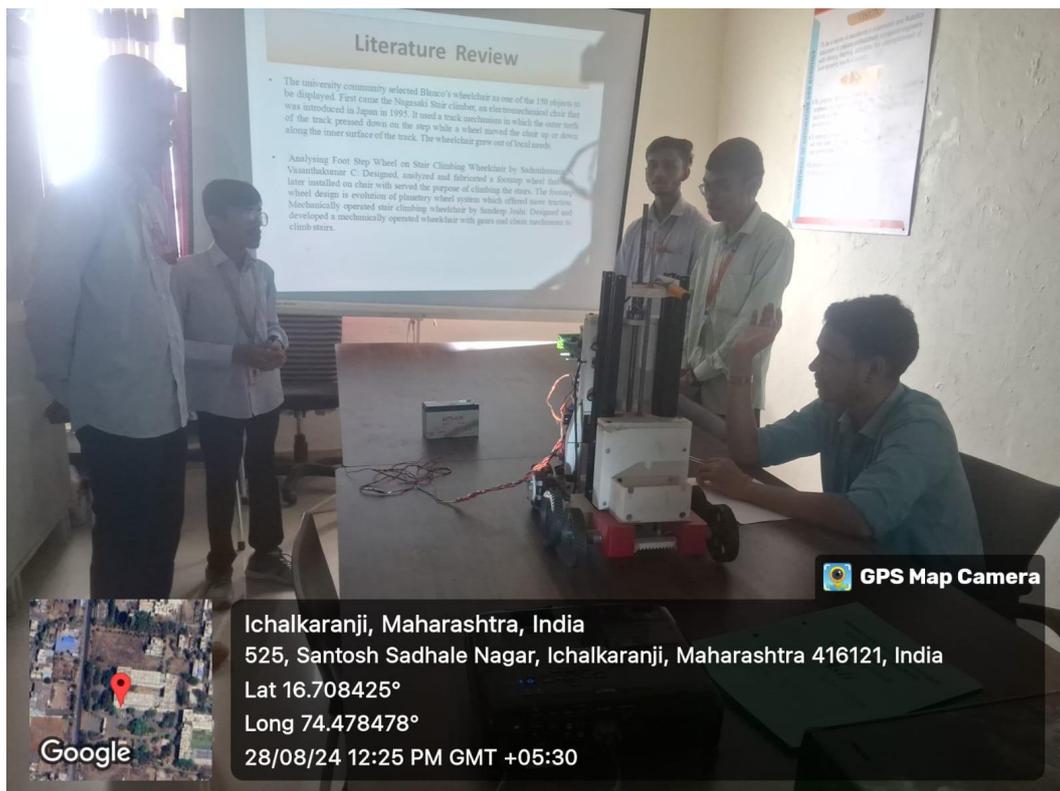


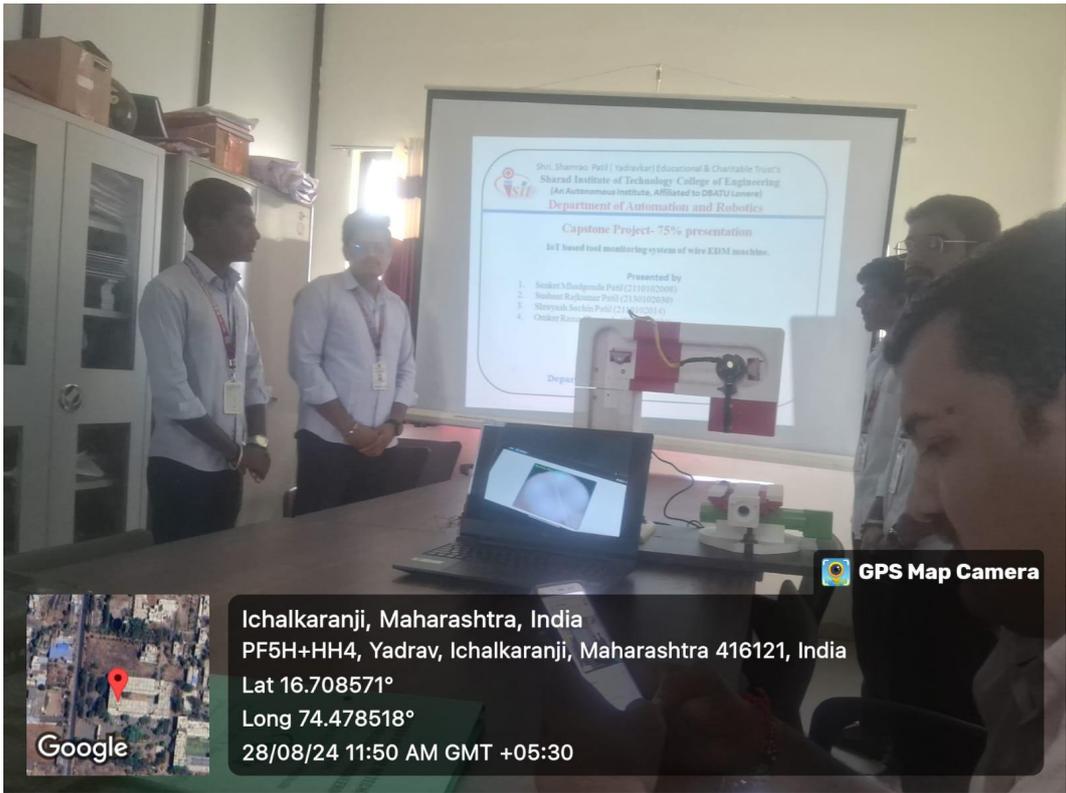
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## Project Based Learning

The institute has taken the wide-ranging decision to implement the concept of **Project Based Learning (PBL)**. With this approach students actively explore real-world problems and challenges and acquire a deeper knowledge. Under this initiative, various value added programs and activities are conducted by department. The details are as follows.

### Project Exhibition:





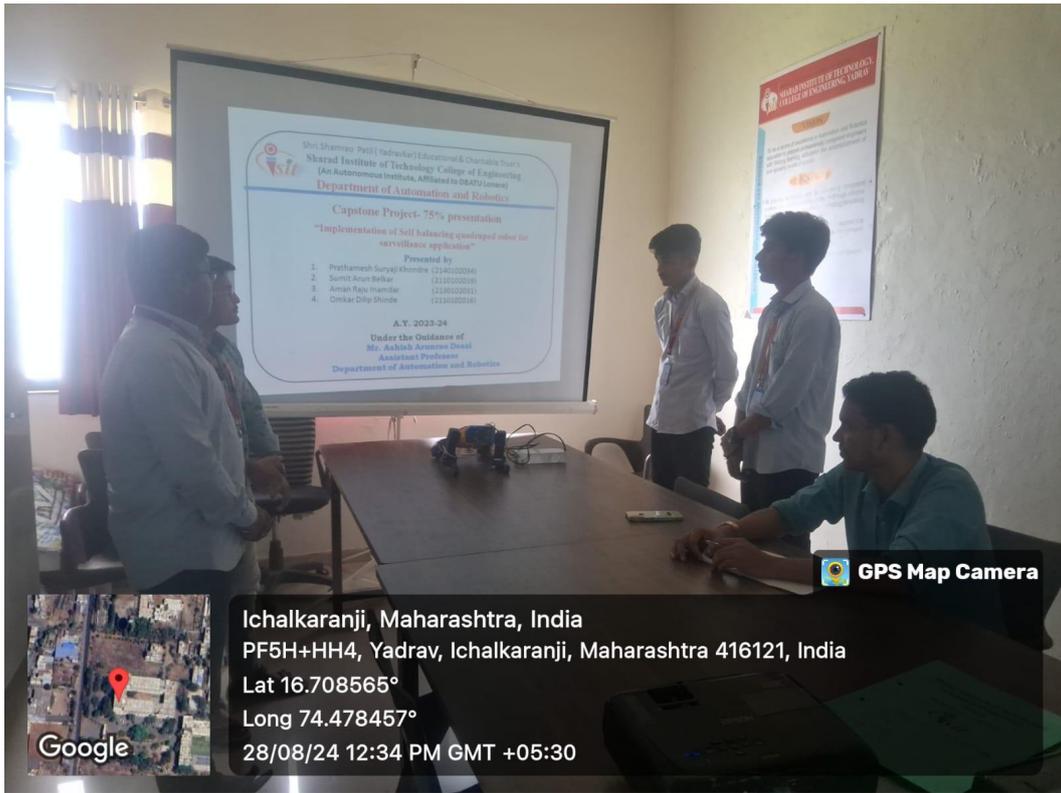
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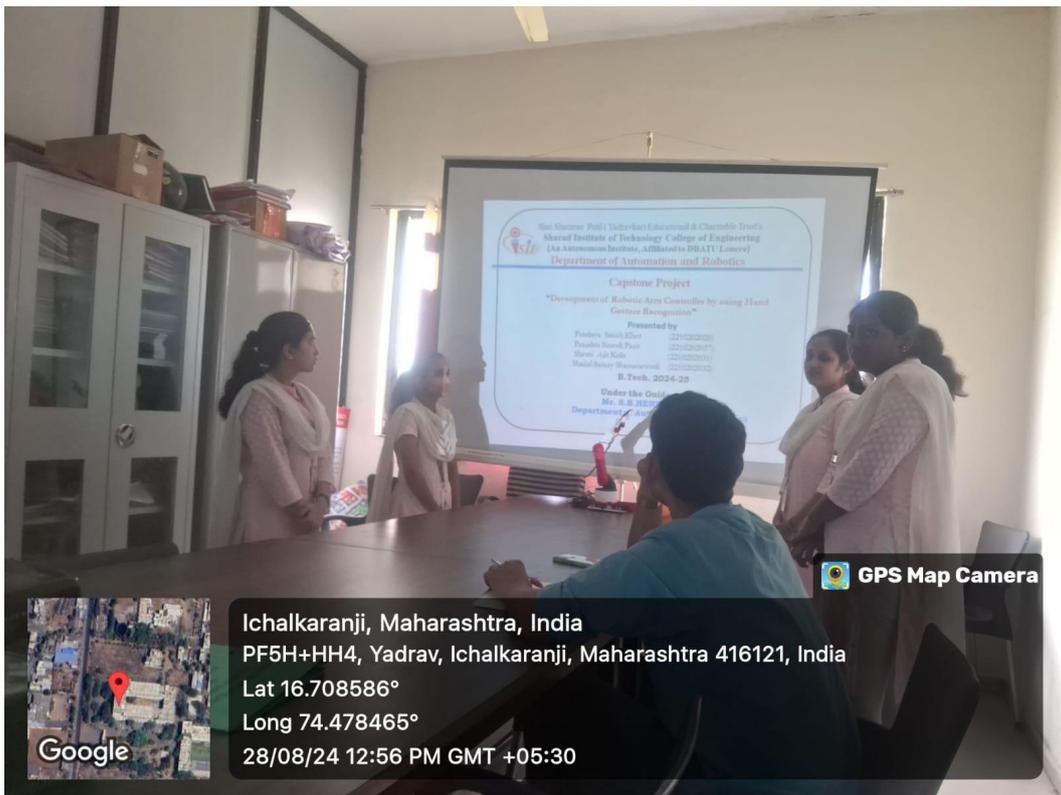


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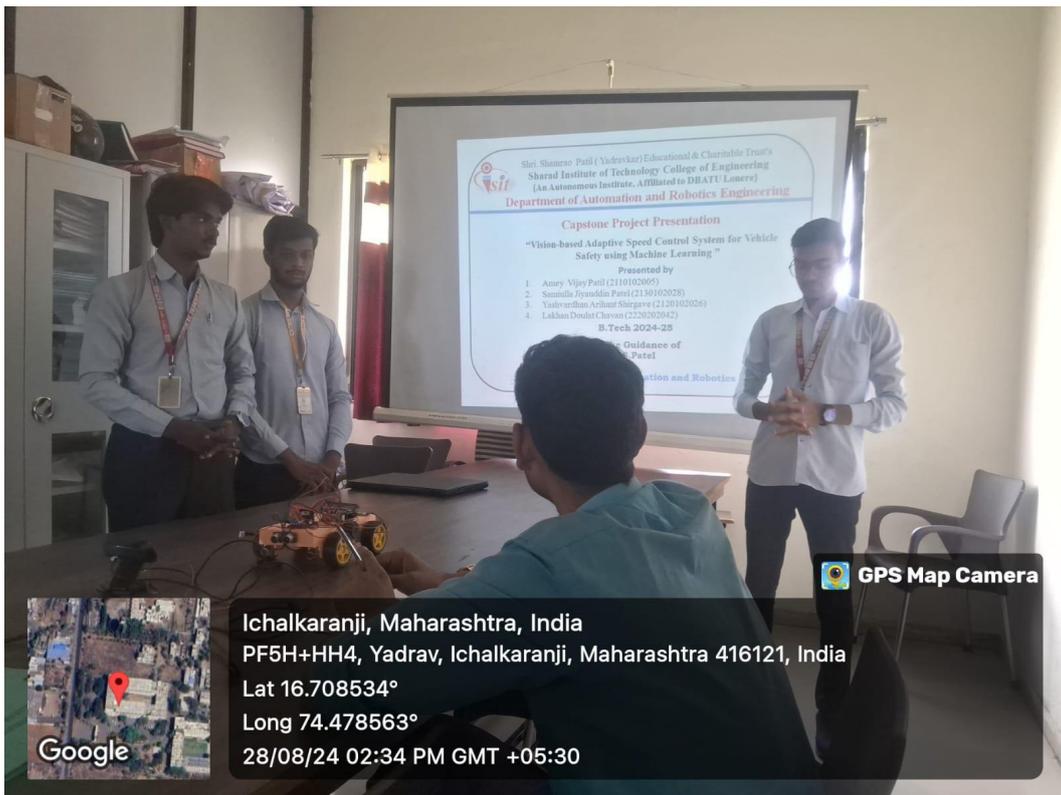


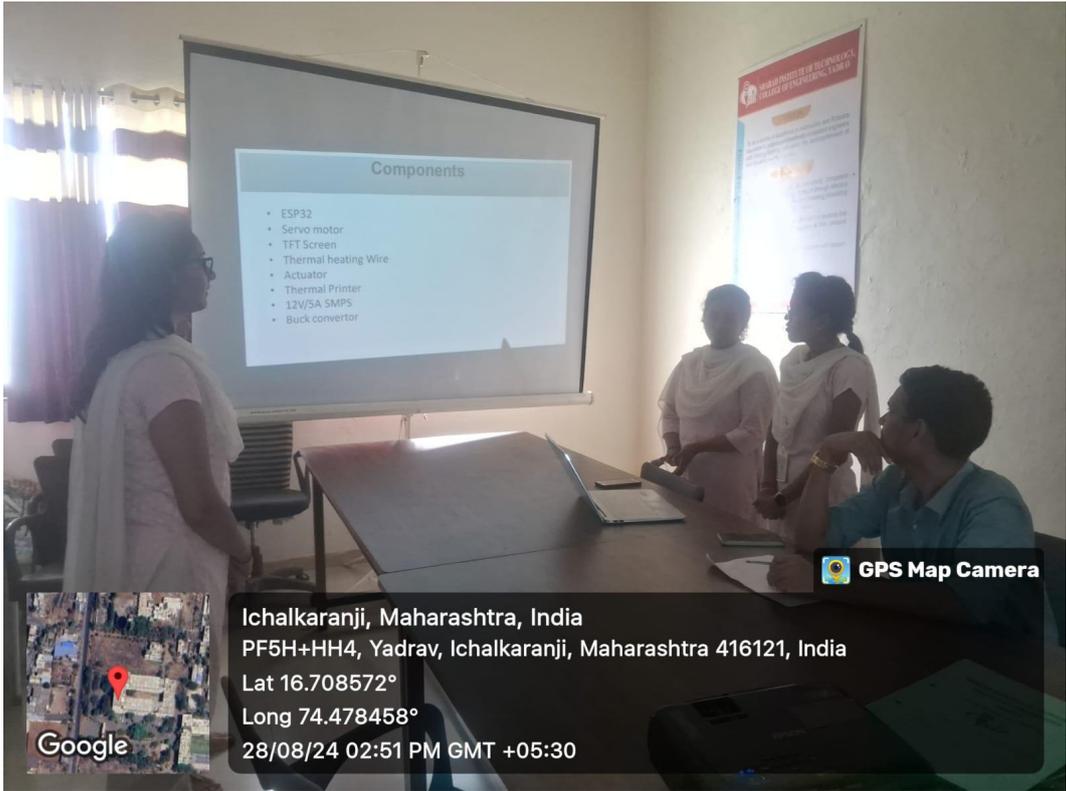
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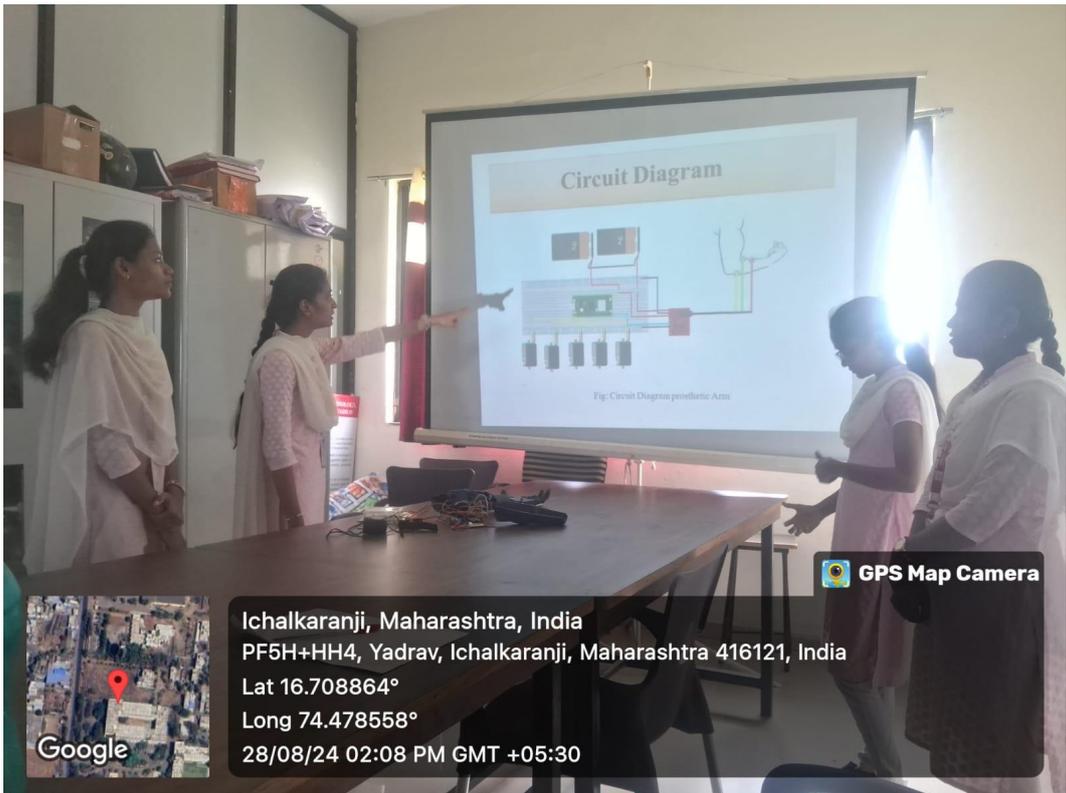
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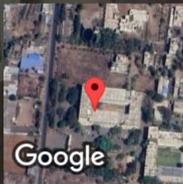
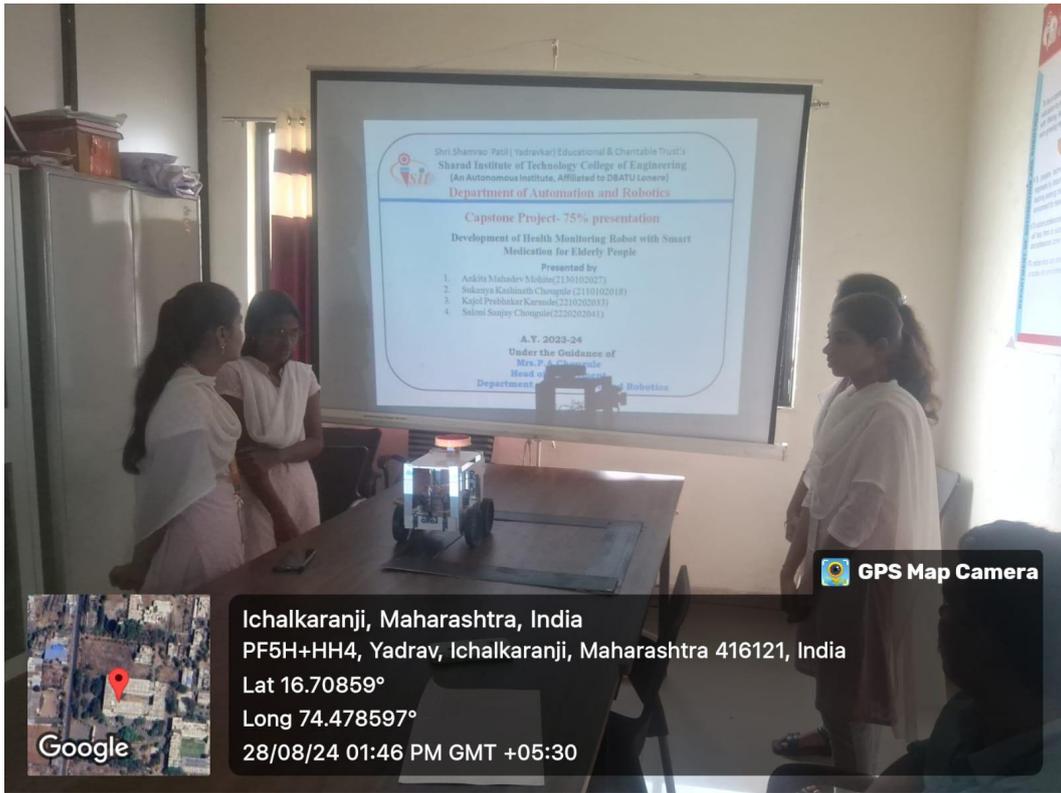




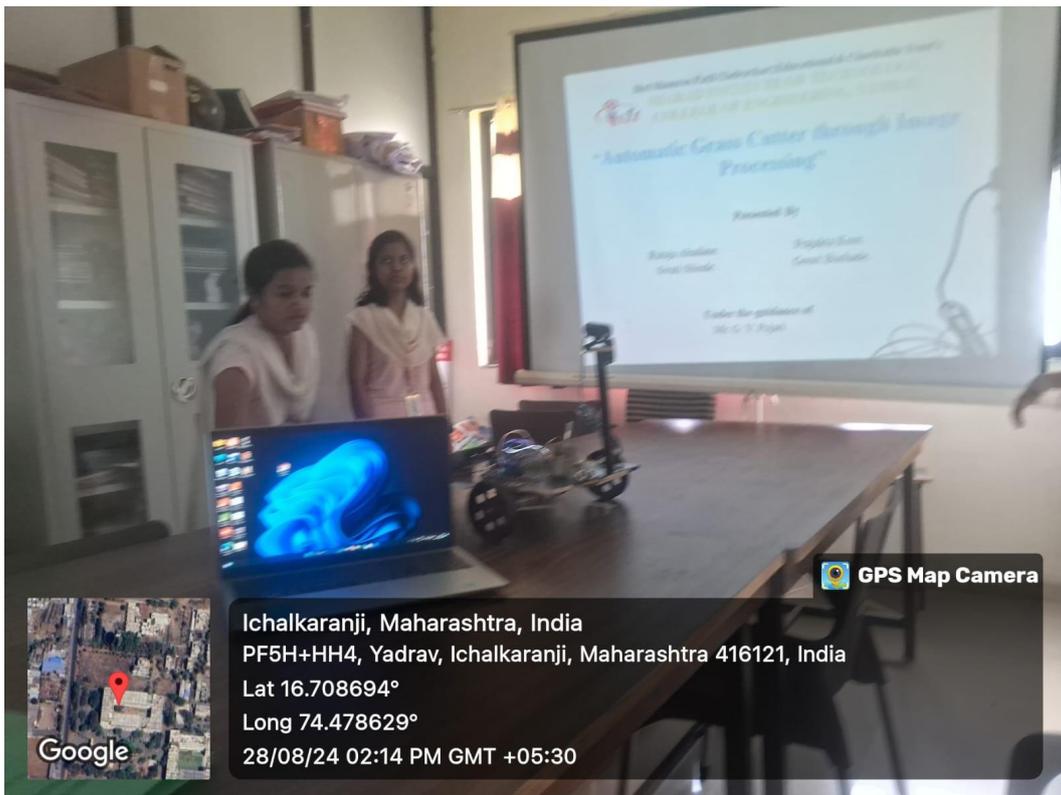
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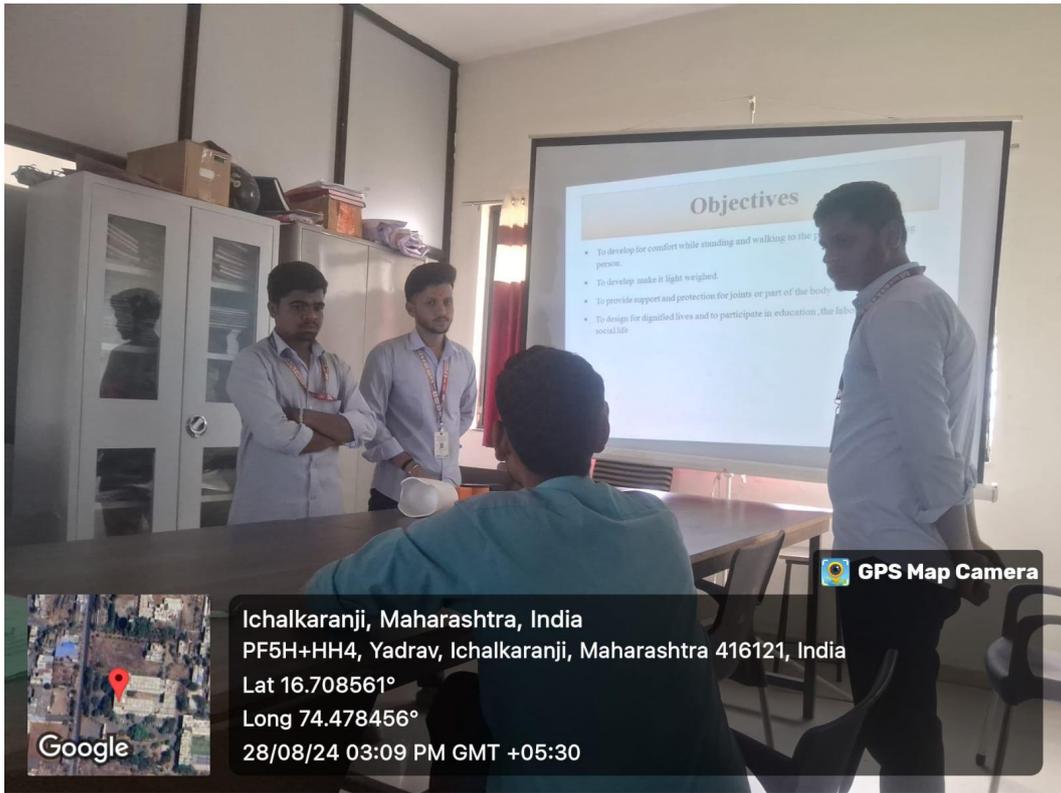
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# CERTIFICATE OF INTERNSHIP

THIS INTERNSHIP PROGRAM CERTIFICATE IS PROUDLY  
AWARDED TO

**PATEL SAMIULLA JIYAUDDIN**

For his outstanding completion of the compulsory internship program on  
***"Real-Time Vehicle Detection at Blind Spot using Computer Vision and Machine Learning"***  
at College of Arts, Media and Technology, Chiang Mai University, Thailand  
from June 17th, 2024, to July 26th, 2024.

**ASST. PROF. DR. WORAWIT JANCHAI**  
(Dean of College of Arts, Media and Technology)

**ASST. PROF. DR. PRADORN SUREEPHONG**  
(Program Manager)



To Whom It May Concern,

I am delighted to write this letter of recommendation for Patel Samiulla Jiyauddin, who completed an internship program at the College of Arts, Media, and Technology, Chiang Mai University. During the internship, Patel Samiulla Jiyauddin demonstrated remarkable dedication and a strong aptitude for programming, public speaking, team management and strategic planning.

As Patel Samiulla Jiyauddin 's supervising mentor, I had the opportunity to observe his work closely. From 17<sup>th</sup> June 2024 to 26<sup>th</sup> July 2024, Patel Samiulla Jiyauddin was actively involved in various projects and tasks, showcasing a keen interest in learning and professional growth. He displayed a comprehensive understanding of concepts and techniques required and consistently delivered high-quality work.

One notable project that Patel Samiulla Jiyauddin contributed to was *Real-Time Vehicle Detection at Blind Spot using Computer Vision and Machine Learning*, where he demonstrated exceptional skills in Python programming, computer vision and machine learning. Patel Samiulla Jiyauddin was particularly adept at design, programming, and implementation as well as research and development which greatly benefited the team and the project's outcome.

In addition to his technical skills, Patel Samiulla Jiyauddin exhibited a commendable work ethic and a positive attitude. He was punctual, reliable, and always eager to contribute beyond the required tasks. His enthusiasm and proactive approach were highly appreciated by both peers and supervisors.

Based on his performance and contributions during the internship, I am confident in Patel Samiulla Jiyauddin's potential to excel in his future academic and professional endeavors. I highly recommend him for further studies and job opportunities, I believe he will be a valuable asset to any organization he joins.

If you have any questions or require further information, please feel free to contact me.

Yours sincerely,

Asst. Prof. Dr. Pradorn Sureephong  
College of Arts, Media, and Technology  
Chiang Mai University  
pradorn.s@cmu.ac.th

## Automation and Robotics Engineering Student Association, (ARESA) Activities

### Events Organized:

Events	Name	Date	Competitions
1	TEACHERS DAY 2K24	5 <sup>th</sup> Sep 2024	(a) Essay Writing (b) Speech Competition
2	IMPETUS 2K24	15 <sup>th</sup> Oct 2024	(a) Robo Race (b) Project Competition (c) Pick and Place
3	PLACE MASTER 2K24	16 <sup>th</sup> Oct 2024	(a) Group Discussion (b) Technical Essay Writing
4	NATIONAL INTEGRATION DAY 2K25	9 <sup>th</sup> Jan 2025	Poster Presentation

### EVENT 1: TEACHERS DAY 2K24

Date: 5<sup>th</sup> Sep 2024

Entry Fee: No

Competitions:

(a) Essay Writing

(b) Speech Competition

#### Event Description:

**(a) Essay Writing:** Essay writing is organizing ideas into a clear structure to present arguments or information effectively.

#### Winners:

1st: Madhura Gurav

2nd: Disha Shinvagi

3rd: Savali Sanjay Shetake

**(b) Speech Competition:** A speech competition is an event where participants deliver speeches to showcase their public speaking skills and creativity, often judged on content, delivery, and impact.

#### Winners:

1<sup>st</sup> : Prachi Upalane

2<sup>nd</sup> : Pradnya Kesarakar

3<sup>rd</sup> : Anushka Bhale

4<sup>th</sup> : Prathamesh Tambekar

## Glimpses of TEACHERS DAY 2K24:



Speech Competition



Essay writing

# EVENT 2: IMPETUS 2K24

Date: 15<sup>th</sup> Oct 2024

Entry Fee: Rs. 100 per head

## Competitions:

- (a) Robo Race
- (b) Project Competition
- (c) Pick and Place

## Event Description:

(a) **Robo Race:** The Robot can be wired or wireless to critique obstacle complete a following path.

## WINNERS:

- 1<sup>st</sup> : Hujefa A Dadhiwale
- 2<sup>nd</sup> : Sangram Singh Nhavi , Mahadev G. Jamgam
- 3<sup>rd</sup> : Aniket Ajit Bhosale

(b) **Project Competition:** A project competition showcases innovative projects, where participants present their work to be evaluated based on creativity, execution, and impact.

**Winners:**

1<sup>st</sup> : Rohit Yadav

2<sup>nd</sup> : Prathamesh A Khondre ,Sumit Belkar ,Omkar Shinde

3<sup>rd</sup> : Pranav S Mathapati

**(c) Pick and Place:** It was basically a specific task is completed. The pick and place maximum time 10 min. The pick to the object and place.

**Winners:**

1<sup>st</sup> : Rohit R Yadav, Dattaraj Indulakar,Aditya A Patil.

2<sup>nd</sup> : Pranav S Mathapati

3<sup>rd</sup> : Sammed Patil

**Glimpses of IMPETUS 2K24:**



Project Competition



Robo Race



Pick and Place

# Event 3: PLACE MASTER 2K24

Date: 16<sup>th</sup> Oct 2024

Entry Fee: Rs. 30 per head

Events:

(a) Group Discussion

(b) Technical Essay Writing

Shri Shamrao Patil (Yadavkar) Educational & Charitable Trust's

## SHARAD INSTITUTE OF TECHNOLOGY, YADRAV

AN AUTONOMOUS INSTITUTE

NBA Accredited Programmes | NAAC 'A' Grade Institute | An ISO 9001:2015 Certified Institute

### PLACE MASTER

on 16<sup>th</sup> October 2024

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

ENTRY FEE RS.30/-

Per head for all events.

**Computer Science and Engineering**

**1) Group Discussion**

Topic: AI in business analysis: Threats and strategies.

Rules: 1. Maximum 6 participants in one group. 2. Time limit: 10 mins. 3. Let everyone speak. 4. Respect everyone's view. 5. Do not abuse each other's view.

**2) Technical Essay Writing**

Topic: The impact of AI on the job market.

Rules: 1. The essay should be in the original work and should not be copied from anywhere. 2. The essay should be 100-150 words. 3. The topic should be in the original work and should not be copied from anywhere. 4. The essay should be 100-150 words. 5. The topic should be in the original work and should not be copied from anywhere.

**Mechanical Engineering**

**1) Group Discussion**

Topic: The future of autonomous vehicles.

Rules: 1. Maximum 6 participants in one group. 2. Time limit: 10 mins. 3. Let everyone speak. 4. Respect everyone's view. 5. Do not abuse each other's view.

**2) Technical Essay Writing**

Topic: The impact of 5G technology on society and economy.

Rules: 1. The essay should be in the original work and should not be copied from anywhere. 2. The essay should be 100-150 words. 3. The topic should be in the original work and should not be copied from anywhere. 4. The essay should be 100-150 words. 5. The topic should be in the original work and should not be copied from anywhere.

**Artificial Intelligence & Data Science Engineering**

**1) Group Discussion**

Topic: AI in business analysis: Threats and strategies.

Rules: 1. Maximum 6 participants in one group. 2. Time limit: 10 mins. 3. Let everyone speak. 4. Respect everyone's view. 5. Do not abuse each other's view.

**2) Technical Essay Writing**

Topic: The impact of AI on the job market.

Rules: 1. The essay should be in the original work and should not be copied from anywhere. 2. The essay should be 100-150 words. 3. The topic should be in the original work and should not be copied from anywhere. 4. The essay should be 100-150 words. 5. The topic should be in the original work and should not be copied from anywhere.

**Civil Engineering**

**1) Group Discussion**

Topic: The future of autonomous vehicles.

Rules: 1. Maximum 6 participants in one group. 2. Time limit: 10 mins. 3. Let everyone speak. 4. Respect everyone's view. 5. Do not abuse each other's view.

**2) Technical Essay Writing**

Topic: The impact of 5G technology on society and economy.

Rules: 1. The essay should be in the original work and should not be copied from anywhere. 2. The essay should be 100-150 words. 3. The topic should be in the original work and should not be copied from anywhere. 4. The essay should be 100-150 words. 5. The topic should be in the original work and should not be copied from anywhere.

**Automation & Robotics Engineering**

**1) Group Discussion**

Topic: The future of autonomous vehicles.

Rules: 1. Maximum 6 participants in one group. 2. Time limit: 10 mins. 3. Let everyone speak. 4. Respect everyone's view. 5. Do not abuse each other's view.

**2) Technical Essay Writing**

Topic: The impact of 5G technology on society and economy.

Rules: 1. The essay should be in the original work and should not be copied from anywhere. 2. The essay should be 100-150 words. 3. The topic should be in the original work and should not be copied from anywhere. 4. The essay should be 100-150 words. 5. The topic should be in the original work and should not be copied from anywhere.

**Electronics and Computer Engineering**

**1) Group Discussion**

Topic: The future of autonomous vehicles.

Rules: 1. Maximum 6 participants in one group. 2. Time limit: 10 mins. 3. Let everyone speak. 4. Respect everyone's view. 5. Do not abuse each other's view.

**2) Technical Essay Writing**

Topic: The impact of 5G technology on society and economy.

Rules: 1. The essay should be in the original work and should not be copied from anywhere. 2. The essay should be 100-150 words. 3. The topic should be in the original work and should not be copied from anywhere. 4. The essay should be 100-150 words. 5. The topic should be in the original work and should not be copied from anywhere.

**Basic Sciences & Humanities**

**1) Technical Essay Writing**

Topic: The impact of AI on the job market.

Rules: 1. The essay should be in the original work and should not be copied from anywhere. 2. The essay should be 100-150 words. 3. The topic should be in the original work and should not be copied from anywhere. 4. The essay should be 100-150 words. 5. The topic should be in the original work and should not be copied from anywhere.

**Electrical Engineering**

**1) Group Discussion**

Topic: The future of autonomous vehicles.

Rules: 1. Maximum 6 participants in one group. 2. Time limit: 10 mins. 3. Let everyone speak. 4. Respect everyone's view. 5. Do not abuse each other's view.

**2) Technical Essay Writing**

Topic: The impact of 5G technology on society and economy.

Rules: 1. The essay should be in the original work and should not be copied from anywhere. 2. The essay should be 100-150 words. 3. The topic should be in the original work and should not be copied from anywhere. 4. The essay should be 100-150 words. 5. The topic should be in the original work and should not be copied from anywhere.

**Mathematics Engineering**

**1) Group Discussion**

Topic: The future of autonomous vehicles.

Rules: 1. Maximum 6 participants in one group. 2. Time limit: 10 mins. 3. Let everyone speak. 4. Respect everyone's view. 5. Do not abuse each other's view.

**2) Technical Essay Writing**

Topic: The impact of 5G technology on society and economy.

Rules: 1. The essay should be in the original work and should not be copied from anywhere. 2. The essay should be 100-150 words. 3. The topic should be in the original work and should not be copied from anywhere. 4. The essay should be 100-150 words. 5. The topic should be in the original work and should not be copied from anywhere.

College - ID & Receipt is mandatory for Event

Registration QR-CODE      Payment QR-CODE

Mrs.Sharda Salunke      Dr. Sanjay A. Khol      Hon. Shri. Anil. A. Bagane      Hon. Shri. Rajendra S. Patil (Yadavkar)

Convener      Principal      Executive Director      Chairman

Address for Correspondence: Sharad Institute of Technology, College of Engineering, Yadrav (Dhankarwadi)-412121 Tal. Solani, Dist. Kolhapur Ph. (02222)-257986 or contact@stioec.org.in or www.stioec.ac.in

## Event Description:

(a) **Group Discussion:** The everyone can be also speak and the respect to everyone view.

## Winners:

1<sup>st</sup> : Pradnya Kesarakar

2<sup>nd</sup> : Rishikesh Koli

3<sup>rd</sup> : Disha Shivangi

## (b) Technical Essay Writing:

### Topics:

1. Artificial intelligence Boon or Bane for Humanity?
2. Cybersecurity: Threats and Countermeasure in the Digital Age
3. Electric Vehicles: The further of Transportation or a Passing Fad?
4. The Impact of 5G Technology on Society and Economy.
5. The Role of Engineers in Sustainable Development.

6. The Future of Work: How Automation and AI Will Change the Job Market.
7. Disaster Management and Response: The Role of Technology and Engineering.

**Winners:**

- 1<sup>st</sup> : Madhura Gurav  
2<sup>nd</sup> : Sandhya Kadam  
3<sup>rd</sup> : Tejaswini Khot

**Glimpses of PLACE MASTER 2K24:**



Group Discussion



Group Discussion



Essay Writing

## Event 4: NATIONAL INTEGRATION DAY 2K25

Date: 9<sup>th</sup> Jan 2025

Entry Fee: No Fee

Events: Poster Presentation

Poster presentations are visual displays of research or project findings, often presented at conferences. They combine concise text, visuals, and graphs to communicate key ideas effectively.

### Winners:

1<sup>st</sup> : Sanskruti Karande, Shambhupriya Kute.

2<sup>nd</sup> : Sanika Abhijit Hogade, Rutuja Suresh Vanmore.

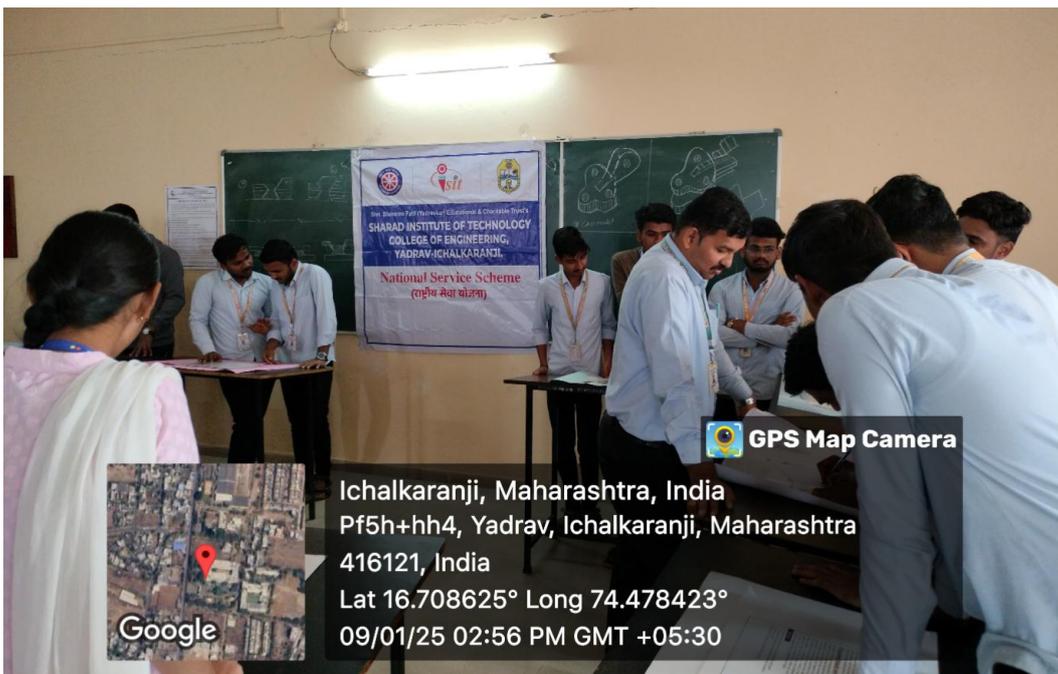
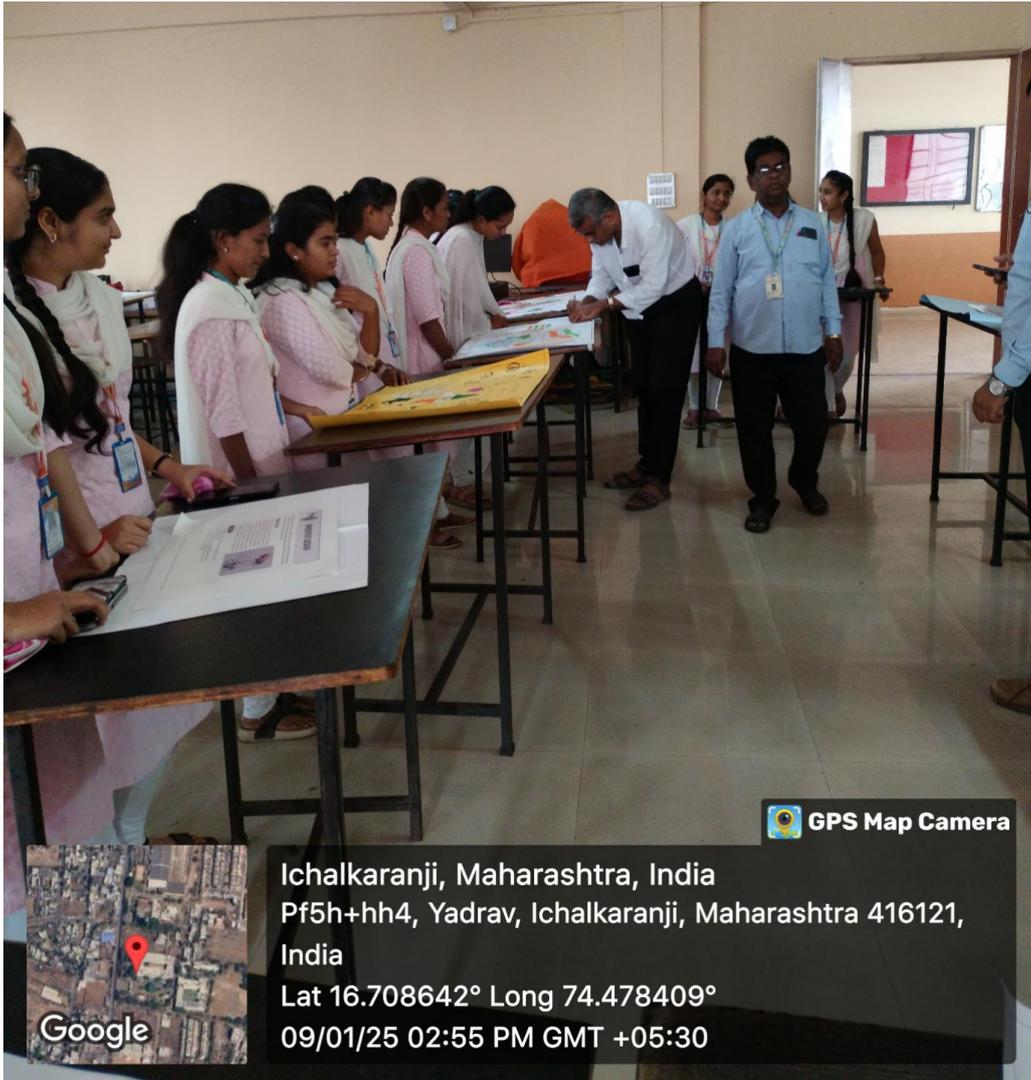
3<sup>rd</sup> : Nikita Killedar, Tejaswi Mohan Waghmode.

3<sup>rd</sup> : Atharv Bhosale, Rohan Chavan, Amey Borgave.

### Glimpses of NATIONAL INTEGRATION DAY 2K25:







Poster Presentation

## Value added programmes (VAP):

Following is the summary of the programmes conducted:

S. No.	Expert Details & Affiliation	Name of Topic	Class	Date of Conduction	No. of Beneficiaries
1	Mr. Yash Chavan Logibit Technologies Pvt. Ltd.	Embedded Systems and Advance Arduino	S.Y.	12/08/2024 - 19/08/2024	36
2	Mr. Akash Dongale D.S. Automation	Industrial Automation Using PLC and SCADA	T.Y.	7/09/2024 - 14/09/2024	45

## 2. Industrial Automation using PLC and SCADA

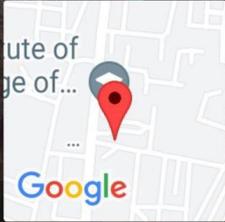
### About the programme:

- Title of the VAP programme : PLC and SCADA
- Date : 07/10/2024 to 14/10/2024
- No of Student Participants : 40
- Industry : D.S. Automation, Kolhapur
- Industry Coordinators : Akash Anil Dongale
- Faculty Coordinator : P.A. Chougule
- Mode of Delivery : Offline

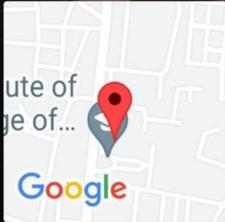
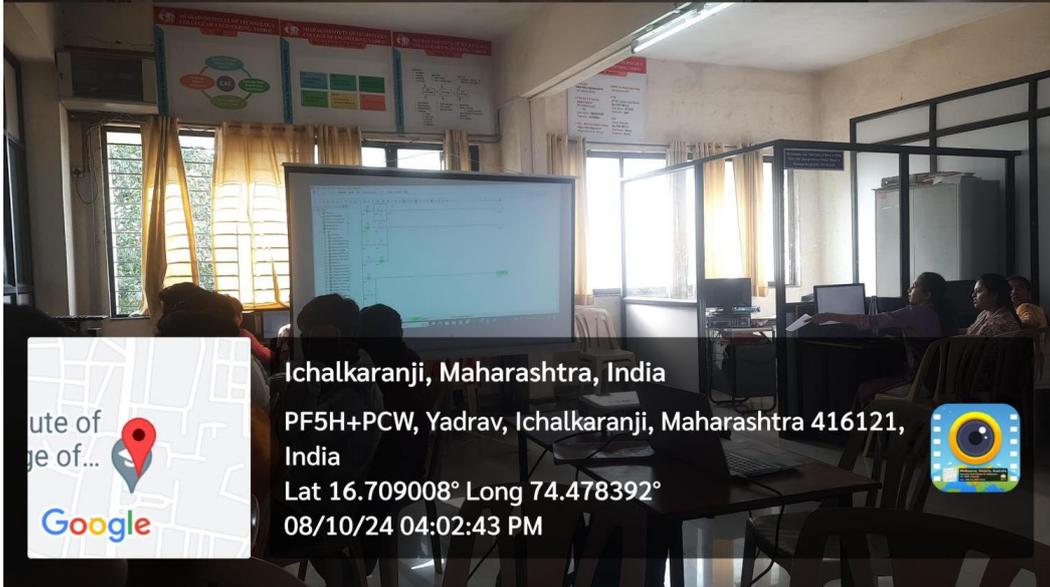
This program was organized by Department of Automation, and conducted under the aegis of IIC from 07/10/2024 to 14/10/2024. The industrial expert handled the sessions was Mr. Akash Anil Dongale, DS Automation, Kolhapur. The objective of the programme was to improve the technical knowledge and creativity of the students by providing practical knowledge from industry experts.

### Glimpses of the programme:

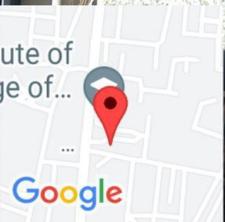
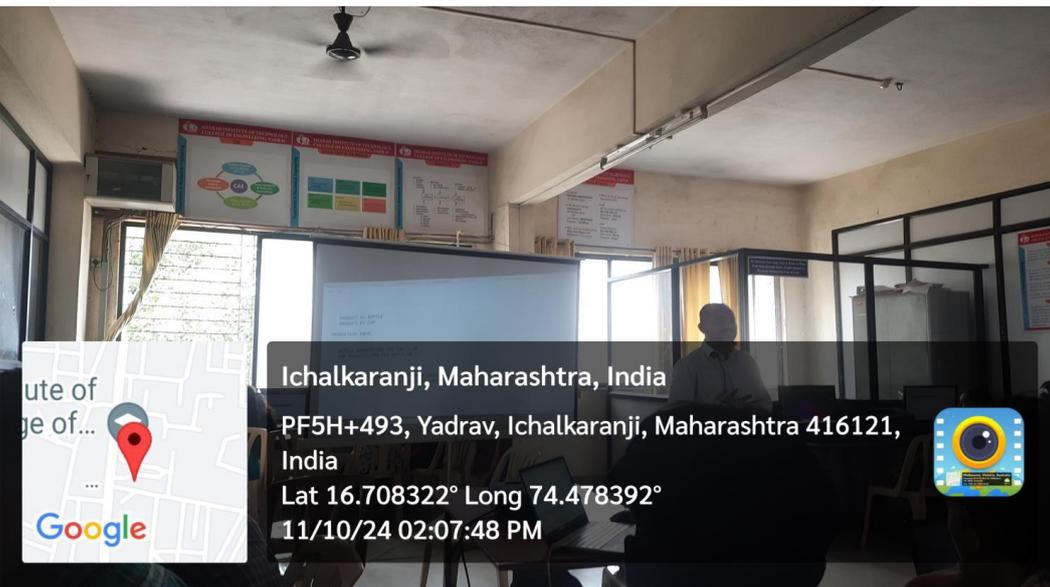




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India  
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PF5H+PCW, Yadrav, Ichalkaranji, Maharashtra 416121,  
India  
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Ichalkaranji, Maharashtra, India  
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India  
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Ichalkaranji, Maharashtra, India  
PF5H+493, Yadrav, Ichalkaranji,  
Maharashtra 416121, India  
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## Student Achievements

S. No.	Name of the student	Name of Event	Event Type	Level	Date of Event	Institute Name	Rank
1	Rajesh Pandurang Patil	Impetus 2K24	Project Competition	National	10/15/2024	SITCOE, Yadrav	First
2	Pradnya Raju Kesarkar	Impetus 2K24	Paper Presentation	National	10/15/2024	SITCOE, Yadrav	First
3	Dattatray Gajanan Indulkar	Impetus 2K24	Project Competition	National	10/15/2024	SITCOE, Yadrav	First
4	Prabhat Hiremath	Sarvodaya 2K24	Robo Rodeo	College	10/25/2024	RIT, Islampur	First
5	Sourabh Bhosale	Sarvodaya 2K24	Robo Rodeo	College	10/25/2024	RIT, Islampur	First
6	Pradnya Raju Kesarkar	Place Master	Group Discussionn	College	10/16/2024	SITCOE, Yadrav	First
7	Madhura Gurav	Place Master	Essay Writing	College	10/16/2024	SITCOE, Yadrav	First
8	Pranav Mathapati	Orion 2K24	Line Bot	College	10/25/2024	RIT, Islampur	Second
9	Pranav Mathapati	Impetus 2K24	Pick and Place	National	10/15/2024	SITCOE, Yadrav	Second
10	Pradnya Raju Kesarkar	Impetus 2K24	Paper Presentation	National	10/15/2024	SITCOE, Yadrav	Second
11	Pradnya Raju Kesarkar	Zero To One	Think Tank	College	8/13/2024	SITCOE, Yadrav	Second
12	Sandhya Kadam	Place Master	Essay Writing	College	10/16/2024	SITCOE, Yadrav	Second
13	Sandhya Kadam	Impetus 2K24	Paper Presentation	National	10/15/2024	SITCOE, Yadrav	Second
14	Pradnya Raju Kesarkar	Place Master	Group Discussionn	College	10/16/2024	SITCOE, Yadrav	Third
15	Aniruddha Jarandikar	Avinya	Arjanya	College	9/14/2024	SITCOE, Yadrav	Third
16	Disha Shivanagi	Place Master	Group Discussionn	College	10/16/2024	SITCOE, Yadrav	Third
17	Savali Sanjay Shetake	Teachers Day 2K24	Essay Writing	College	9/5/2024	SITCOE, Yadrav	Third
18	Tejaswini Shashikant Khot	Place Master	Essay Writing	College	10/16/2024	SITCOE, Yadrav	Third
19	Sammed Patil	Impetus 2K24	Pick and Place	National	10/15/2024	SITCOE, Yadrav	Third
20	Pranav Mathapati	Impetus 2K24	Project Competition	National	10/15/2024	SITCOE, Yadrav	Third
21	Anushka Anil Bhale	Teachers Day 2K24	Speech Competition	College	9/5/2024	SITCOE, Yadrav	Third

## DAAB, BOS Meeting

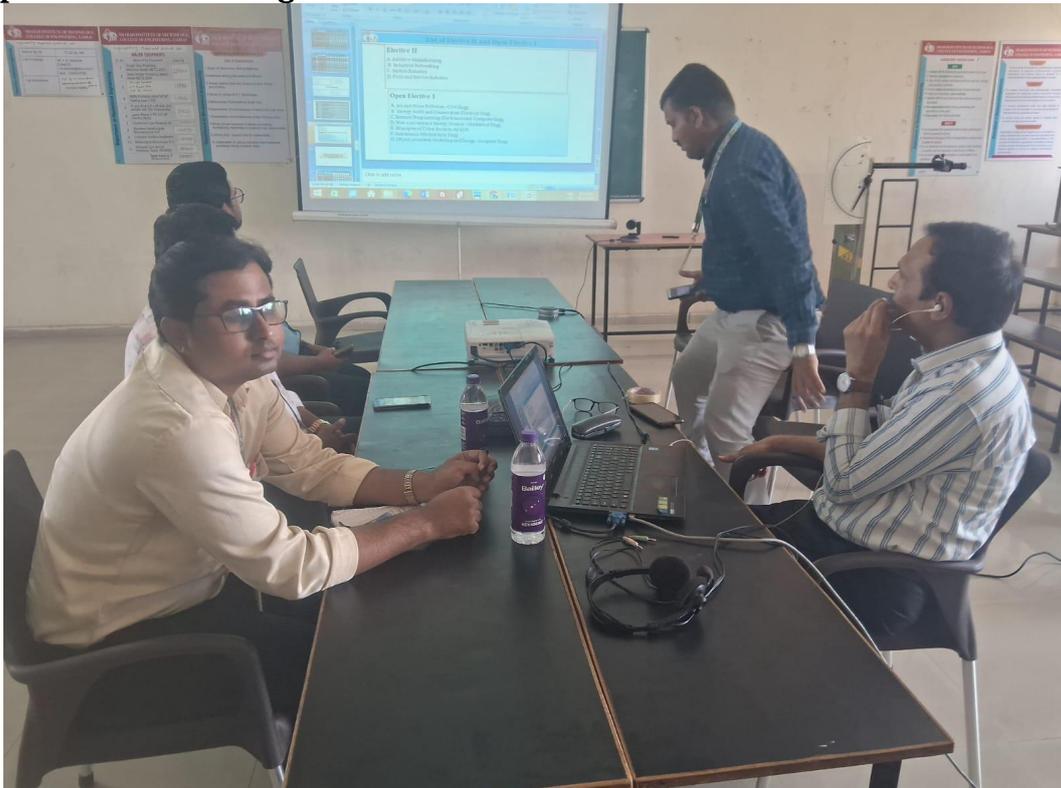
For improvement in quality of the curriculum as well as the quality of students, Department Accreditation Advisory Board (DAAB) and Board of Studies (BOS) is conducted in every semester. The Department Accreditation Advisory Board consists of expert from industry, experienced academicians from different colleges and the faculty of the department.

### Glimpses of DAAB Meeting:





**Glimpses of BOS Meeting:**





Ichalkaranji, Maharashtra, India  
525, Santosh Sadhale Nagar, Ichalkaranji, Maharashtra 416121, India  
Lat 16.708289°  
Long 74.478678°  
10/09/24 05:35 PM GMT +05:30

## Faculty Achievements:

### Research publications:

S. No.	Title of the Paper	Authors	Name of the Journal
1	Design of Fractional-NPLL for low phase noise	Muqueem M.A, Saxena S, <b>Patel G.S</b>	AIP Conference Proceedings, 2024, 3072(1), 030006
2	Multi-objective optimization of laser machining parameters for carbon-glass reinforced hybrid composites: Integrating gray relational analysis, regression, and ANN	<b>Ashish A. Desai</b> , S.N. Khan, Pooja Bagane, Sagar Dnyandev Patil,	MethodsX Vol. 13, Dec 2024, 103066,
3	Optimizing Nd: YAG laser cutting of carbon fiber reinforcing polymer with newly developed resin using Taguchi-GRA approach and machine learning integration	<b>Ashish A. Desai</b> , Subim Khan	Multidiscipline Modeling in Materials and Structures, Vol 20, 6, Sep 2024, ISSN: 1573-6105
4	Hard and wear resistant AISI304 stainless steel clad layer deposited on mild steel substrate by TIG cladding	<b>Mohd Aslam</b> , Guddakesh Kumar Chandan, Brajesh Kumar Kanchan	Manufacturing Letters, Vol 42, Nov 2024, Pages 34-39
5	Exploring the machining characteristics of aluminum 6061 using nanosecond pulse fiber laser machine	<b>Aslam Mohd</b> , Chandan G.K., Saha S, Kanchan B.K	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, Vol 0, No. 0, Aug 28, 2024

### Book Chapters:

1. Experimental investigation of orientations effect on 70-watt LED under natural convection, Avadhut R. Jadhav, Jitendra G. Shinde, J. Gajendra, Pol, Ranjeet S. Mithari, **Sujit V. Kumbhar**, Recent Advances in Green Technologies and Sustainable Development, Taylor & Francis, 1st Ed., 2024.



Shri Shamrao Patil (Yadravkar) Educational & Charitable Trust's

# **SHARAD INSTITUTE OF TECHNOLOGY, COLLEGE OF ENGINEERING**

Yadrav (Ichalkaranji), Dist.-Kolhapur (Maharashtra)

▪ NBA Accredited Programmes ▪ NAAC 'A' Grade Institution ▪ An ISO 9001 : 2015 Certified Institute

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Gat No. 525,473/A Behind Onkareshwar Temple Yadrav-Ichalkaranji,  
Tal-Shirol, Dist-Kolhapur, Maharashtra, India

Email : [contact@sitcoe.org.in](mailto:contact@sitcoe.org.in), Tel : +91-2322-252796, Fax : +91-2322-252897

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