



Shri Shamrao Patil (Yadavkar) Educational & Charitable Trust's  
**Sharad Institute of Technology College of Engineering,**  
**Yadrav-Ichalkaranji.**

NBA Accredited Programs . NAAC A Grade Institute.  
ISO 2009:2015 Certified Institute  
AN AUTONOMOUS INSTITUTE



# TECH BEACON

## NEWSLETTER



**DEPARTMENT OF MECHATRONICS  
ENGINEERING**

**ACADEMIC YEAR 2023-24**

**VOL. 1 ISSUE 2**





Hon. Dr. Rajendra Patil (Yadravkar)  
Chairman  
Shri Shamrao Patil (Yadravkar)  
Educational & Charitable Trust



Hon. Shri. Anil Bagane  
Executive Director  
Shri Shamrao Patil (Yadravkar)  
Educational & Charitable Trust



Dr. S. A. Khot  
Principal

## HOD's Words



Dr. S. K. Shikalgar  
Head of Department

It is pleasure to introduce you to the Department of Mechatronics Engineering, which is an emerging multidisciplinary branch of engineering that focuses on electronic and mechanical systems, and also includes a combination of robotics, electrical, computer, telecommunications, control engineering. Today, Mechatronics Engineers are the most demanded in the automation industries. Mechatronics Engineering will continue to grow in demand as more businesses advance their technologies and turn to sophisticated intelligent systems and robotics. We strive to increase our knowledge, enhance critical thinking, motivate innovative projects, and develop entrepreneurial skill. We impart knowledge through a highly competent team of faculty. The diversity of expertise of the faculty helps the students to acquire skill in all disciplines. Our laboratories are equipped as per the norms of AICTE and motivate students to do projects related to automation, robotics, and societal development. We focus to nurture our students to become world class professionals and/or future entrepreneurs.

# Vision and Mission of Institute

## Vision

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

## Mission

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



## Vision and Mission of Department



### Vision

To be center of excellence in Mechatronics 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 carrier.
- To imbibe moral and ethical values in students with concern to society and environment.

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## Achievements by Students

| Sr.No | Name of the student     | Event Type            | Date of Event | Institute Name   | Rank |
|-------|-------------------------|-----------------------|---------------|--|------|
| 1     | Ajinkya Chavan          | Robo tech (robo race) | 25/03/2024    | Walchand College of engineering, Sangli                            | 1st  |
| 2     | Dipak T Mali            | Robo tech (robo race) | 24/03/2024    | Walchand College of engineering, Sangli                            | 1st  |
| 3     | Karan Mukesh Pitroda    | Project Exhibition    | 08/04/2024    | Shree Sant krupa Institute of engineering & Technology, Ghogaon    | 1st  |
| 4     | Karan Mukesh Pitroda    | Project Exhibition    | 20/04/2024    | Tatyasaheb Kore Institute Of engineering And Technology, Wamanagar | 1st  |
| 5     | Prathamesh Sagar More   | Project Exhibition    | 08/04/2024    | Shree Santkrupa Institute of engineering & Technology              | 1st  |
| 6     | Jaykumar Kore           | Robo tech(robo race)  | 24/03/2024    | Walchand College of engineering, Sangli                            | 2nd  |
| 7     | Dipak Tukaram Mali      | Fusion Master         | 23/03/2024    | Sharad Institute of technology college of engineering, Yadav       | 2nd  |
| 8     | Jaykumar Ishwar Kore    | Robot Wrestling       | 23/04/2024    | Sharad Institute of technology College of Engineering, Yadav       | 2nd  |
| 9     | Ajinkya Chavan          | Robomania             | 26&27/02/2024 | Government College of Engineering                                  | 3rd  |
| 10    | Mandhar Sugondh Dongare | Robo race             | 15/03/2024    | Dr. A.D.Shinde college of engineering, Ashta                       | 3rd  |



## Guest/Expert Lectures

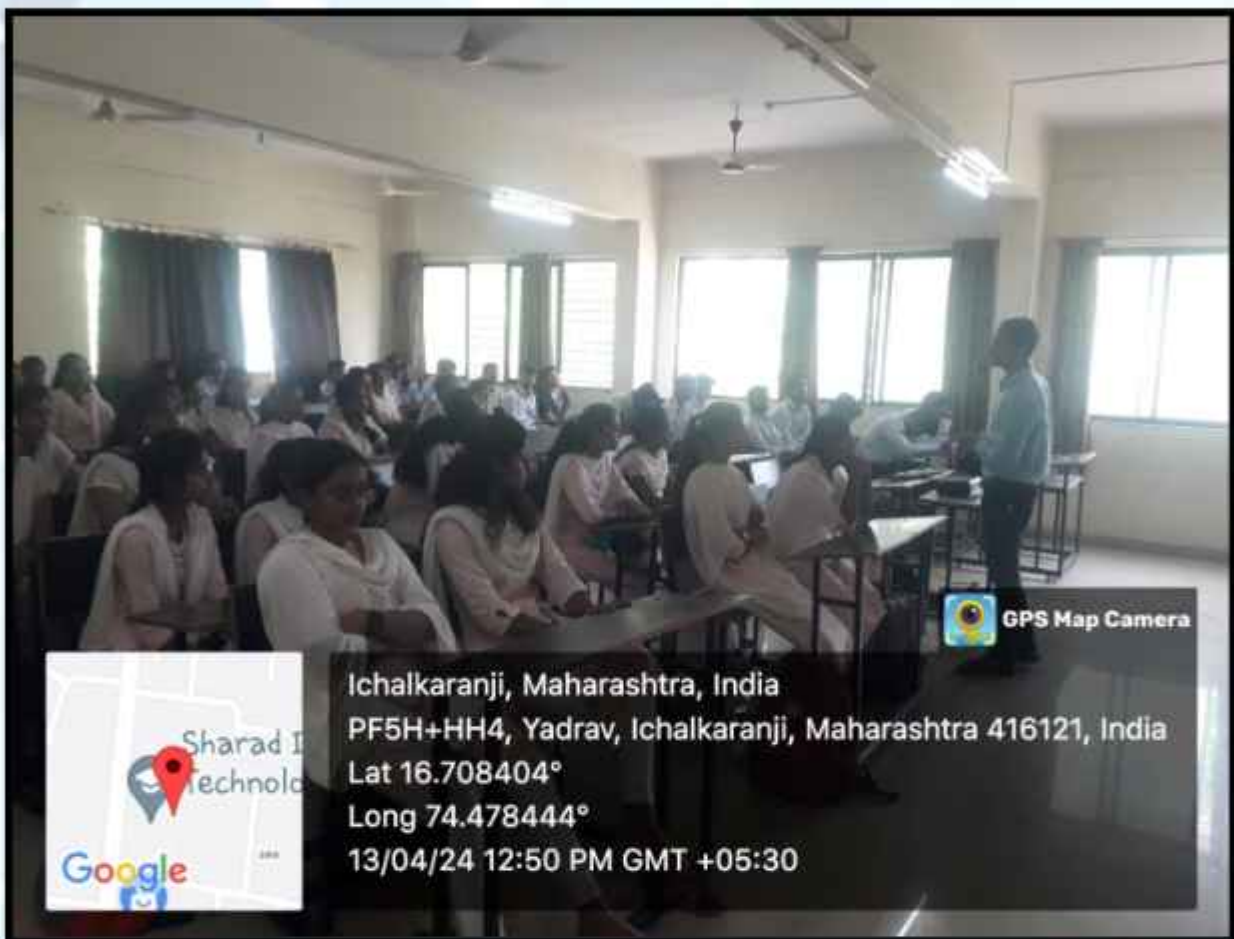
| Sr. No. | Topic for Expert Talk                                     | Expert Name & Designation  | Date of Expert Talk | Class  |
|---------|---|--|---------------------|--------|
| 1       | Enhancing Safety and Efficiency in Automotive Electronics | Mr.Ashwin Gadgil, Owner, HEM Electronics, Kupwad                           | 16/01/2024          | TY     |
| 2       | Career Guidance   | Mr.Abhay Kelkar, Educational Consultant, Shri Mahalaxmi Academy, Kolhapur. | 25/01/2024          | TY     |
| 3       | Process Automation and Control                            | Mr. Akash Dongale, Owner, DS Automation                                    | 03/02/2024          | SY &TY |
| 4       | Financial Well Being                                      | Mr. Deepak Rameshan, Certified Financial Planner, Sushil Finance, Mumbai.  | 24/02/2024          | TY     |
| 5       | Career Opportunities in Digital Marketing                 | Mr. Tushar Patil, Marketing Manager, Vijomi Digital Technology, Kolhapur   | 11/03/2024          | SY     |
| 6       | Career Opportunities in Banking Sector                    | Mr. Yogesh Rajendra Janwade, Clerk, Bank of India, Kurundwad.              | 13/04/2024          | TY     |
| 7       | 3D Printing Technology                                    | Mr. Arun Yeware, Co-Founder, Atelier Technologies, Miraj                   | 16/04/2024          | SY     |



## Few Glimpses of Guest Lectures







## Industrial Visits

| Sr. No. | Name of Company  | Class | Date of Visit |
|---------|--|-------|---------------|
| 1       | Magnewin Energy Pvt Ltd, KUPWAD MIDC, Sangli.                                    | TY    | 11.01.2024    |
| 2       | SNR Electronics, KUPWAD MIDC, Sangli.  | TY    | 11.01.2024    |
| 3       | Advance Measuring System, MIDC, Gokul Shirgaon, Kolhapur                         | SY    | 24.02.2024    |
| 4       | Gokul Shirgaon Manufacturing Association (GOSHIMA) MIDC, Gokul Shirgaon Kolhapur | SY    | 24.02.2024    |
| 5       | Sanjay Ghodawat consumers Limited, Chipri  | TY    | 20.03.2024    |



## Few Glimpses of Industrial Visits





## Few Glimpses of Aptitude Training Program arranged by TPO Cell.





## Value Added Program (VAP)

| Sr. No. | Expert Details   | Name of Topic                                | Class               | Date of Conduction          |
|---------|--|--|---------------------|-----------------------------|
| 1       | Mr. Akash Dongale,<br>Owner, DS Automation                     | Industrial Automation<br>using PLC and SCADA | SY MTRX,<br>TY MTRX | 18-03-2024 to<br>23-03-2024 |
| 2       | Mr. Chetan Vijay<br>Hogade<br>Owner, Technowave<br>Electronics | Basic Embedded<br>Systems                    | TY MTRX             | 1-03-2024 to<br>07-03-2024  |





## PBL Activity

Project-based learning boosts classroom engagement *and* has a direct impact on how well students are prepared to enter the workforce once they graduate. A growing focus on 21st century skills and critical thinking means project-based learning is gaining steam in education. In addition, PBL can help educators:

- Teach students personal responsibility and critical time management skills
- Design assignments that hit higher-order stages in Bloom's taxonomy like analysis, synthesis and evaluation
- Provide multiple ways of assessing students at different stages of the project, whether through a portfolio, annotated bibliography, outline, draft product or finished project

When students leave school, they'll need to understand that work isn't as straightforward as lectures and homework. It's more aligned with a project-based approach, where employees are expected to prioritize, manage their time and deliver work on a deadline. Project-based learning helps teach students:

- Creative problem-solving skills
- The importance of collaboration
- How to find the right tools for the job
- How to build independent learning and project management skills
- How to use relevant technology to find resources, communicate and produce a final product

Project-based learning is important because it helps students approach meaningful learning opportunities with curiosity, while also giving them real-world skills they'll use for the rest of their lives.





## MTESA Activities 2023-24

## DEPARTMENT OF MECHATRONICS ENGINEERING

## Mechatronics Department Student Association

| Sr. No. | Name of Event       | Date of Event |
|---------|---------------------|---------------|
| 1       | Environment day     | 05/06/2023    |
| 2       | Impetus 2K23        | 12/10/2023    |
| 3       | Innovation 2K24     | 23/04/2024    |
| 4       | National Voters Day | 25/01/2024    |

## Innovation 2k24



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### Electronics and Engineering

**1. Paper Presentation**

Topic: [Blank]

Time: 10 minutes

Rules: [Blank]

**2. Quiz**

Topic: [Blank]

Time: 10 minutes

Rules: [Blank]



**On 23<sup>rd</sup> April, 2024**

**A National Level Technical Event**

In Association with ISTE Student Chapter & IQAC

### Mechanical and Robotics

**1. Paper Presentation**

Topic: [Blank]

Time: 10 minutes

Rules: [Blank]

**2. Quiz**

Topic: [Blank]

Time: 10 minutes

Rules: [Blank]

### Software and Computer Engineering

**1. Paper Presentation**

Topic: [Blank]

Time: 10 minutes

Rules: [Blank]

**2. Quiz**

Topic: [Blank]

Time: 10 minutes

Rules: [Blank]

### Data Science and Analytics

**1. Paper Presentation**

Topic: [Blank]

Time: 10 minutes

Rules: [Blank]

**2. Quiz**

Topic: [Blank]

Time: 10 minutes

Rules: [Blank]

### AI/ML and Robotics

**1. Paper Presentation**

Topic: [Blank]

Time: 10 minutes

Rules: [Blank]

**2. Quiz**

Topic: [Blank]

Time: 10 minutes

Rules: [Blank]

### Art and Design

**1. Paper Presentation**

Topic: [Blank]

Time: 10 minutes

Rules: [Blank]

**2. Quiz**

Topic: [Blank]

Time: 10 minutes

Rules: [Blank]

### Entry Fee

**RS. 100/-**

Per student for all events

### Prizes

**1. Winner: Rs. 2,00,000/-**

**2. Runner Up: Rs. 1,00,000/-**

**3. Third Place: Rs. 50,000/-**

For more information, visit our website: [www.sit.ac.in](http://www.sit.ac.in)

Contact: 020-26111111



Address for Correspondence: Sharad Institute of Technology, College of Engineering, Yadav, Dist. Raichur, Karnataka 575002

## Few Glimpses of INNOVATION 2K24



**Paper Presentation**



**Lathe War**



## NSS Activities

| <b>Summary of NSS Volunteering Activity</b>  |  |
|--|--|
| <b>Sharad Institute of Technology, College of Engineering<br/>Yadav- (Ichalkaranji)(An Autonomous Institute)</b> |  |
| <b>SPOC - Volunteering Activities (Name)</b>   | Mrs R S Sajane, Mr P J patil                   |
| <b>Name of Volunteering Activity</b>   | National Voters Day                            |
| <b>Description of the Activity</b>   | Rangoli for awareness                          |
| <b>Date of Activity</b>  | 25/01/2024                                     |
| <b>Duration of Activity</b>  | Whole Day                                      |
| <b>Location of Activity</b>  | Kolhapur, Maharashtra                          |
| <b>NGO Partner</b>   | (Applicable only if activity is done with NGO) |
| <b>Number of volunteers</b>  | 35 (Student and Faculty)                       |
| <b>Type of beneficiary (women, students<br/>children, community)</b>   | Community                                      |

### **Summary: -**

**National Voter's Day (NVD)** is celebrated across the country on 25th January every year to mark the importance of each vote in a democracy. This year, the theme of NVD celebrations is "Nothing like voting, I vote for sure"

Under GR given by the **Assistant Voters Registration officers, Shirol assembly**, the activities mentioned in letter college has done activity of **Rangoli for voters' day**.

In the college campus rangolis are made by student coordinators. The concept behind this activity is to aware students and inform importance of voting for nation building as they are new voters for assembly election.

The competitions to commemorate the National Voters Day to encourage the young voters and to spread awareness among young voters regarding effective participation in the electoral process.

It is celebrated every year with a particular theme. It not only encourages the youth to participate in the electoral process but also focuses on the Right to vote as the basic right.

| <b>Summary of NSS Volunteering Activity</b><br><b>Sharad Institute of Technology, College of Engineering</b><br><b>Yadav- (Ichalkaranji)(An Autonomous Institute)</b>   |   |
|---|---|
| <b>SPOC - Volunteering Activities (Name)</b>  | <b>Mrs R S Sajane, Mr. Pankaj Patil</b>               |
| <b>Name of Volunteering Activity</b>  | <b>National Voters Day</b>                            |
| <b>Description of the Activity</b>  | <b>Taking pledge</b>                                  |
| <b>Date of Activity</b>   | <b>05/02/2024</b>                                     |
| <b>Duration of Activity</b>   | <b>10 min</b>   |
| <b>Location of Activity</b>   | <b>Kolhapur, Maharashtra</b>                          |
| <b>NGO Partner</b>  | <b>(Applicable only if activity is done with NGO)</b> |
| <b>Number of volunteers</b>   | <b>54(Student and Faculty)</b>                        |
| <b>Type of beneficiary (women, students children, community)</b>  | <b>Community</b>                                      |
| <p><b>Summary :-</b></p> <p><b>National Voter's Day (NVD)</b> is celebrated across the country on 25th January every year to mark the importance of each vote in a democracy. This year, the theme of NVD celebrations is "Nothing like voting, I vote for sure"</p> <p>The theme for this year is 'Nothing Like Voting, I Vote For sure', which is a continuation from last year's theme, and conveys an individual's feeling and aspiration towards participation in the electoral process through the power of their vote.</p> <p>The logo for this year's theme is designed in such a way that it showcases festivity and inclusivity of the electoral process. The Ashoka Chakra in the background represents the largest democracy of the world, whereas the inked finger represents participation of each and every voter of the country. The tick mark in the logo stands for informed decision making by the voter.</p> <p><b>Voter's Pledge:</b></p> <p>"We, the citizens of India, having abiding faith in democracy, hereby pledge to uphold the democratic traditions of our country and the dignity of free, fair and peaceful elections, and to vote in every election fearlessly and without being influenced by considerations of religion, race, caste, community, language or any inducement".</p> |   |









## **Toppers List**

### **SY**

| <b>Sr. no.</b> | <b>Name of Students</b> | <b>CGPA</b> |
|----------------|-------------------------|-------------|
| 1              | DAMATE KOMAL SUNHASH    | 9.86        |
| 2              | TOWAR DIKSHA DEEPAK     | 9.80        |

### **TY**

| <b>Sr. no.</b> | <b>Name of Students</b> | <b>CGPA</b> |
|----------------|-------------------------|-------------|
| 1              | KADAM ADITYA AMAR       | 8.72        |
| 2              | CHAVAN SOHAM SHIVAJI    | 8.43        |

### **B Tech**

| <b>Sr. no.</b> | <b>Name of Students</b>          | <b>CGPA</b> |
|----------------|----------------------------------|-------------|
| 1              | DARYAWARDI ROMAAN SAYEEDAHAMAD   | 9.10        |
| 2              | DARYAWARDI DILNAWAZ SAYEEDAHAMAD | 9.05        |

### Student Team behind the Newsletter

| Sr.No. | Name of the Student   | Class  |
|--------|-----------------------|--------|
| 1      | Rohan Sunil Chougule  | B.tech |
| 2      | Sandesh Bhaskar Desai | B.tech |
| 3      | Aditya Amar Kadam     | TY     |
| 4      | Soham Shivaji Chavan  | TY     |
| 5      | Diksha Deepak Towar   | SY     |
| 6      | Komal Subhash Damate  | SY     |



## **Editor's Desk**

It gives us immense joy to present this second issue, Academic Year 2023-24 of the departmental newsletter "Tech Beacon", published by the Mechatronics Department, Sharad Institute of Technology, College of Engineering. At the outset, we would like to express our heartfelt gratitude to the faculty members of the department whose constant support and encouragement made this edition possible.

This newsletter, released biannually, is a reflection of the vibrant academic and co-curricular environment within the department. It encapsulates the vision and mission that drive our department, while showcasing the remarkable efforts, innovations, and accomplishments of our students over the past semester. It also provides a glimpse into the various activities, workshops, and events that enriched the academic calendar. We believe this newsletter will serve as a source of inspiration and motivation for our fellow students to participate actively and demonstrate their creativity and potential. The objective of this publication is to share the essence of our department's progress, achievements, and aspirations, both within and beyond the campus community.

We extend our sincere appreciation to the faculty and staff whose contributions were instrumental in shaping this edition. We welcome constructive feedback and suggestions from our readers, which will help us continue to grow and improve in the forthcoming issues.

**Mr.S.S.Jugale**  
**Assistant Professor, Department of Mechatronics Engineering,**  
**SITCOE, Yadrav-Ichalkaranji.**

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## **From Student Editor's Desk**

With great pride and enthusiasm, we present Volume 1, Issue 2 of "Tech Beacon", newsletter of the Mechatronics Department at Sharad Institute of Technology, College of Engineering. This issue serves as a dynamic platform to highlight the creativity, achievements, and vibrant spirit of our student community. It reflects the core of our department through featured student projects, impactful workshops, technical programs, and competitive activities that have shaped our academic experience.

This publication showcases the determination and innovative thinking of our students, who consistently raise the standard of excellence in engineering. We hope this edition not only informs readers but also motivates them to explore new ideas, take initiative, and pursue learning with passion and purpose.

We are deeply thankful to our faculty members for their constant guidance and encouragement, which played a vital role in making this publication possible. We also extend our sincere appreciation to all the students who contributed by sharing their insights and accomplishments. Looking ahead, we invite more students to actively participate, contribute fresh ideas, and help us make each edition better than the last. Your suggestions and feedback are always welcome as we continue to grow together.

**Diksha Towar**  
**Student, Department of Mechatronics Engineering,**  
**SITCOE, Yadrav-Ichalkaranji.**