



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

Sharad Institute of Technology College of Engineering

- NBA Accredited Programmes
- An A Grade Institute Accredited By NAAC
- An ISO 9001:2015 Accredited Institute
- Recognized u/s 2(f) and 12(B) of the UGC Act 1956

An Autonomous Institute

"TECH BEACON"



NEWSLETTER

DEPARTMENT OF MECHATRONICS ENGINEERING



**Academic Year
2022-23**

Volume 01, 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.

Inside

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- **Guest/Expert Lectures**
- **Industrial Visits**
- **Few Glimpses of Aptitude Training Program arranged by TPO**

Cell

- **VAP Activity**
- **PBL Activity**
- **MTESA Activities**
- **NSS Activities**
- **Toppers List**

Achievements by Students

- Secured **2nd Rank** in Treasure Hunt at Dr.D.Y.Patil Technical Campus, Talsande by



1. Shreyash Gadkari & Nikita Chavan

- Secured **Best Startup Project Award** from Radio Mirchi-Kolhapur Startup Festival by
 1. Virendra Band
- Secured **1st rank** in Paper Presentation Event at SITCOE, Yadrav by
 1. Dilnawaz Daryawardi
 2. Rومان Daryawardi
- Secured **3rd rank** in Poster Presentation Event at SITCOE, Yadrav by
 1. Sahil Bandar

Guest/Expert Lectures

Sr. No.	Topic for Expert Talk	Expert Name & Designation	Date of Expert Talk	Class
1	Cybersecurity	Mr. Ranjeet Pal, Center head, Institute of advanced Network Technology, Kolhapur	18/01/2023	TY
2	Career opportunities in hardware networking and software programming	Miss. Asawari Dandekar, Software trainer, Institute of advanced Network technology, kolhapur	18/01/2023	TY
3	Future of digital marketing	Mr. Tushar Patil, Marketing manager, Vijomi Digital Technology, kolhapur	11/02/2023	TY
4	Learn and earn through digital marketing	Mr. Tushar Patil, Marketing manager, Vijomi Digital Technology, kolhapur	11/02/2023	TY
5	3D printing technology	Mr.ArunYeware, Co-Founder, Atelier Technologies, Miraj	13/02/2023	SY
6	Competitive exams	Mr.Sheetal Kumbhar, Union bank of India, Pune	25/02/2023	SY, TY
7	Industry 4.0	Mr.Milind Shinde, Owner	27/02/2023	SY
8	Job opportunities in mechatronics	Mr. Onkar Kulkarni, System Engineer, Volta Trucks	27/03/2023	TY
9	Industry 4.0	Dr. Vishal Balwan, Administrator, Enhance Techno Systems	20/04/2023	SY
10	Resent trends in mechatronics	Mr. Chetan Hogade, Owner, Technowave Electronics	16/05/2023	SY

Few Glimpses of Guest Lectures





Industrial Visits

Sr. No.	Name of Company	Class	Date of Visit
1	Bakare Engineers Pvt Ltd, Kolhapur	T.Y	27/01/2023
2	Arni Mech Products Pvt. Ltd, Gokul Shirgaon	T.Y	27/01/2023
3	SNR Electronics, Kupwad MIDC	T.Y	23/01/2023
4	Sharda Electronics, Kupwad MIDC	T.Y	23/01/2023
5	Siddhi Technozen, Kolhapur	S.Y	23/02/2023
6	Innovista Automation, Shirol	S.Y	23/02/2023
7	Swabhimani Milk Dairy, Dugaon	S.Y	11/03/2023
8	Pragati Automation Pvt. Ltd	S.Y	14/02/2023
9	Sharad SSK, Narande	S.Y	19/05/2023

Few Glimpses of Industrial Visit.





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. Ashwin Gadgil Hem Electronics, Miraj	Industrial Automation using PLC and SCADA	SY MTRX, TY MTRX	14/11/22 to 19/11/22
2	Ms. Bina Pathan Ms. Asawari Khandekar, Institute of Advanced Networking Technology, Kolhapur	Machine Learning with Data Science	TY MTRX	06/02/23 to 11/02/23



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 2022-23

DEPARTMENT OF MECHATRONICS ENGINEERING

Mechatronics Department Student Association

Sr. No.	Name of Event	Date of Event
1	Quiz Competition	29/08/2022
2	Teacher Day – conducting lectures and felicitation of Teachers	05/09/2022
3	Impetus 2K22	8/10/2022
4	Innovation 2K23	01/04/2023
5	Worlds Earth day - Tree plantation in campus	22/04/2023
6	Environment day- Cleaning area in institute	05/06/2023

Innovation 2k23



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Computer Science and Engineering

1.1 Project Competitions

1.2 Paper Presentation

1.3 Quiz Contest

1.4 Hackathon



On 1st April, 2023

A National Level Technical Event

In Association With IETD (Student Chapter)

2

Mechanical Engineering

2.1 Project Competitions

2.2 Paper Presentation

2.3 Quiz Contest

2.4 Hackathon

3

Electrical Engineering

3.1 Project Competitions

3.2 Paper Presentation

3.3 Quiz Contest

3.4 Hackathon

ENTRY FEE
RS.100/-
The Fee is for All Rounds

▶ For more information visit
www.sit.edu.in

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Information Technology

4.1 Project Competitions

4.2 Paper Presentation

4.3 Quiz Contest

4.4 Hackathon



Prizes worth more than Rs. **2,00,000/-**

Mrs. Sharda Salunkhe
Ex-Officio

Dr. Sanjay A. Khar
Principal

Mr. Shri. Anil A. Sogam
Executive Director

Mr. Shri. Rajendra S. Patil (Yadavkar)
Chairman

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Few Glimpses of INNOVATION 2K23





Few glimpses of Sherlock Holmes Event



Glimpses of Paper Presentation Event

NSS Activities

Summary of NSS Volunteering Activity	
Sharad Institute of Technology, College of Engineering Yadav- (Ichalkaranji)(An Autonomous Institute)	
SPOC - Volunteering Activities (Name)	Mr Pankaj J. Patil
Name of Volunteering Activity	Worlds Earth day
Description of the Activity	Tree plantation in campus
Date of Activity	22/04/2023
Duration of Activity	1Hr
Location of Activity	Kolhapur, Maharashtra
NGO Partner	(Applicable only if activity is done with NGO)
Number of volunteers	10(Student and Faculty)
Type of beneficiary (women, students children, community)	Community
Summary :- The annual Earth Day event takes place on April 22 each year. This year, Earth Day is on Saturday, 22 April 2023. Participating in this global event raises awareness of the importance of protecting our planet and its natural resources. In addition, it encourages people to engage in conserving the environment. Rallies, concerts, and tree-planting activities are among the many activities and events that take place on Earth Day. The aim of the day is to increase environmental conservation and awareness. It offers an opportunity for people and groups to get together to organize and take part in projects like neighborhood clean-up campaigns, tree plantings, and various eco-education initiatives. People are made aware of the detrimental effects of human activity on the ecosystem. We all should take the day as a reminder that we can all contribute to preserving the planet's health for coming generations.	



Summary of NSS Volunteering Activity	
Sharad Institute of Technology, College of Engineering Yadrav- (Ichalkaranji)(An Autonomous Institute)	
SPOC - Volunteering Activities (Name)	Mr. Pankaj Patil
Name of Volunteering Activity	Meri Mati meradesh
Description of the Activity	Taking pledge
Date of Activity	09/08/2023
Duration of Activity	10 min
Location of Activity	Kolhapur, Maharashtra
NGO Partner	(Applicable only if activity is done with NGO)
Number of volunteers	74(Student and Faculty)
Type of beneficiary (women, students children, community)	Community
Summary :- "Meri Maati Mera Desh", with the tagline 'Mitti ko naman, veeron ka vandan', is a nationwide and people led "Jan bhagidari" initiative to commemorate 75 years of India's independence. It is the finale of Azaadi ka Amrit Mahotsav program. 'Meri Maati Mera Desh' celebrates the many achievements of the nation. It involves paying tribute to the 'Veers' who protect our nation. The ceremonies would be conducted at the level of village, Panchayat, Block, Urban Local body, State and National level. We affirm our bond to the nourishing earth and honor our braves with the following simple actions: <ol style="list-style-type: none"> 1) Dedication of Shilaphalakam-installation of nameplate of Veers. 2) Taking the Panch Pran Pledge. 3) Vasudha Vandan—creation of Amrit Vatika with 75 saplings of indigenous trees. 4) Veeron Ka Vandan- honoring freedom fighters/braves who protect the nation and families of braves. 5) Hoisting of National Flag and singing of National Anthem. 	



Summary of NSS Volunteering Activity

Sharad Institute of Technology, College of Engineering Yadrav- (Ichalkaranji)(An Autonomous Institute)

SPOC - Volunteering Activities (Name)	Mr Pankaj J. Patil
Name of Volunteering Activity	Environment day
Description of the Activity	Cleaning area in institute
Date of Activity	05/06/2023
Duration of Activity	2 Hr
Location of Activity	Kolhapur, Maharashtra
NGO Partner	(Applicable only if activity is done with NGO)
Number of volunteers	25(Student and Faculty)
Type of beneficiary (women, students children, community)	Community

Summary :-

World Environment Day is an annual global event celebrated on June 05. It is observed to raise awareness on the protection and preservation of the environment.

World Environment Day is the largest platform that advocates the practice of sustainable development around the world. With the current pace of the overutilization of natural resources, the future generation is likely to be deprived of these resources. Millions of people around the world participate in this program to protect and conserve the environment to fulfill the needs of the future generation.



Toppers List

SY Semester III

Sr. no.	Name of Students	CGPA
1	Kadam Aditya Amar	8.7
2	Chavan Soham Shivaji	8.43
3	Chougule Pranali Bhalchandra	8.05

TY Semester V

Sr. no.	Name of Students	CGPA
1	Daryawardi Dilnawaz Sayeedahamad	9.12
2	Daryawardi Romaan Sayeedahamad	9.11
3	Sandesh Bhaskar Desai	8.78

Student Team behind the Newsletter

Sr.No.	Name of the Student	Class
1	Desai Sandesh	TY
2	Chougule Punam	TY
3	Daryawardi Dilnawaz	TY
4	Chougule Rohan	TY
5	Kadam Aditya	SY
6	Chavan Soham	SY

Editor's Message...

It is with great pleasure that we bring you the Volume 01, Issue 2 Academic Year 2022-23 of the newsletter "Tech Beacon" of Mechatronics department of Sharad Institute of Technology, College of Engineering. Please let me start by conveying my regard to the entire Mechatronics engineering faculty members who supported me for making this happen. The newsletter is published twice in a particular academic year. The current newsletter highlights the vision, mission, and activities of our students and the achievements of Students during the past semester. This newsletter also throws light on the different activities incorporated during the semester.

I do hope that this newsletter will encourage many more students to come forward and express their talent and creativity. The intent of newsletter is to disseminate information about our Institute, and we hope that the readers find the issues informative and useful. We are thankful to the faculty and staff of our department for their valuable inputs, and we welcome suggestions and feedback that will help us improve further.

Mr.S.S.Sajane
Assistant Professor,
Mechatronics Engineering Department

From Student Editor's Desk

It is with immense enthusiasm that we present Volume 01, Issue 2 of "Tech Beacon", the official newsletter of the Mechatronics Department, Sharad Institute of Technology, College of Engineering. This newsletter serves as a platform to showcase the achievements, innovations, and activities of our fellow students, highlighting the dedication and passion within our department. Through this issue, we aim to bring forth insights into student projects, technical events, workshops, and competitions that have shaped our learning journey. It is inspiring to witness the creativity and technical excellence displayed by our peers, and we hope this newsletter motivates everyone to explore new ideas and innovations.

We extend our sincere gratitude to our faculty members for their continuous guidance and encouragement in making this newsletter a reality. A special thanks to all the students who contributed their work and experiences. We look forward to more engaging contributions, innovative ideas, and active participation from students in the future. Your suggestions and feedback are always welcome as we strive to improve with each edition.

Sandesh Desai
Student, TY Mechatronics Engineering Department