

Marathwada Mitra Mandal's
Institute of Technology

Approved by AICTE, New Delhi | Sanctioned by Govt. of Maharashtra
Affiliated to Savitribai Phule Pune University

MANIFESTATION

Volume-II, Issue-II

"Where Mechanics, Electronics and Computing Converge"
DEPARTMENT OF MECHATRONICS ENGINEERING

A.Y. 2022-23 (SEM-II) • June 2023



Welcome and best wishes to all the friends of the Department who receive this Newsletter.

This Newsletter is an attempt towards achieving Motivation. This is one of the first university affiliated departments in the Savitribai Phule Pune University to offer a Bachelor of Engineering degree program in Mechatronics Engineering.

Vision, Mission & Program Specific Outcomes

Vision

To be a centre of excellence in mechatronics engineering producing competent professionals capable of developing innovative solutions for industry and society.

Mission

M1: Providing quality education in interdisciplinary domains through integration of hardware and software systems, while fostering professional ethics and lifelong learning for industry and societal needs.

M2: Equipping students with skills to design, develop, and implement efficient, reliable, and socially relevant engineering solutions through teamwork, innovation, and effective communication.

M3: Promoting innovation, practical learning, and strong industry interaction, enabling students to address real-world challenges and pursue research, entrepreneurship, and emerging technologies.

Program Specific Outcomes (PSO)

PSO1: To be able to apply fundamentals of mechanical, electrical, electronics and control engineering to design, analyze and maintain a mechatronics system.

PSO2: To be able to develop and implement solutions for industrial and societal problems applying multidisciplinary engineering principles.

Message from Head of the Department



Dr. Anjali J. Joshi
Head of Department,
Mechatronics Engineering

A mechatronic system is a multidisciplinary system embodying a synergistic combination of the disciplines of electrical/electronics, mechanical and computer science / information technology. In today's world mechatronic products and systems are all around us; such as the modern auto focus camera, washing machines with electronic controls, printing and photocopy machines etc. Modern automobiles have several mechatronic systems such as electric power assisted steering, engine management system, cruise control etc.

The newsletter is one of the ways in which we can disseminate information on the life of the Department.

This Semester we planned towards teaching effectively by practical training and execution. For this, we organized many activities in the second half of the academic year. As you read through this newsletter, you will get detailed information about the events and activities the department has conducted.

I would like to thank all my colleagues for their tireless efforts to help the department progress at a very steady pace.

– Dr. Anjali J. Joshi (HoD Mtrx.)

Editor's View

This Newsletter also gives an opportunity to our students and staff to creatively solve real life problems with an interdisciplinary approach. Their insights, innovative ideas and to show how this can be applied in almost any organization. The success of this newsletter depends on your response. Your feedback is highly appreciated.

– Asst. Prof. Sonali S. Patil (Faculty Editor)

Events & Activities

Industrial Visit at MahaMetro, Pune

The Department of Mechatronics Engineering of MMIT Lohgaon organized an industrial visit to MahaMetro, Pune, on 7th September 2022 for S.E. & T.E. Mechatronics Engineering students to study the operation and underground construction work of MahaMetro, Pune. The visit was organized as per Pune University guidelines.

Name: MahaMetro, Pune

Location: Garware College Metro Station

Purpose of Visit: To study the operation and underground construction work of MahaMetro, Pune

Details of Activity:

1. Attending Metro Samvad at Garware College station
2. Return journey to Vanaz from Garware College station
3. Underground tunnel section visit at City Court metro station (Shivajinagar)



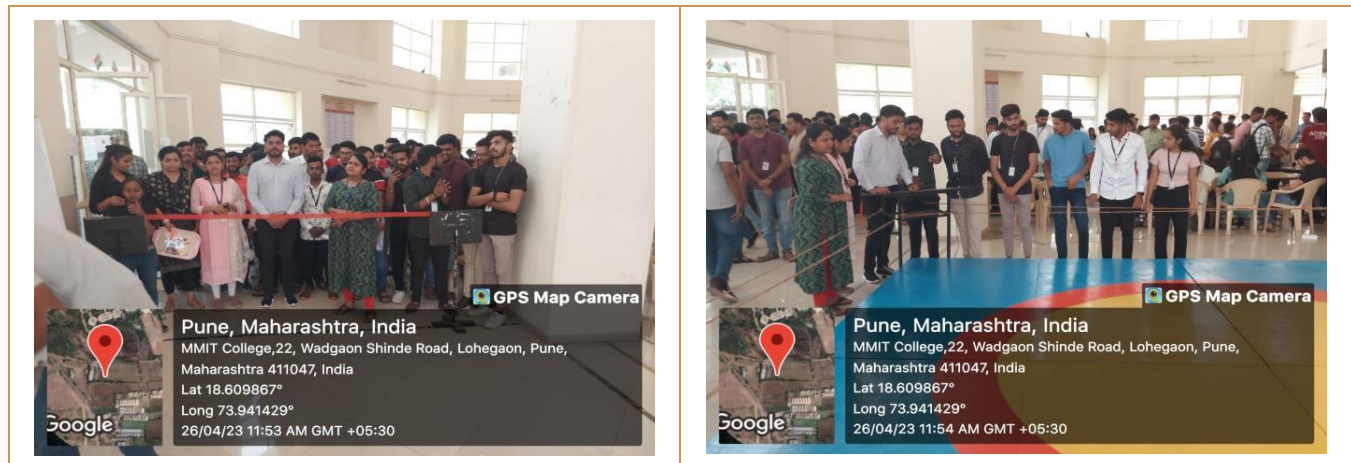
Glimpses of the Industrial Visit to MahaMetro, Pune

Techno-Sci-2K23 — Robowar Event

Last semester focused on Robomaking training & workshop. To uplift and enhance the skills learnt in the previous semester, this semester the exciting event Robowar was organized. Robowar is a thrilling event held at a robowar arena where fights among robots are organized. The arena included three concentric circles — red, yellow and blue. The ultimate goal of the event was to push the opponent's robot into the outer circle, which promoted rigid and reliable robot design and good driving skills. The event was organized in association with the MMIT-IIC Centre, IEI Student Chapter and CSI Institutional Chapter and Robotronix club.

Date: 26th April 2023

Level of the event: State Level



Glimpses of the Robowar Event

Techno-Sci-2K23 — Roborace Event

To enhance Robomaking skills and practically test robots against real-time challenges, this event was organized to make students more interested in robotics — and ultimately in mechatronics. The objective of Roborace, with multiple hurdles, was to challenge teams to push the limits of autonomous driving technology by completing a complex obstacle course with their self-driving race cars. The course included tight turns, high-speed straights and other challenging manoeuvres. The goal of the event was to inspire new breakthroughs in autonomous driving technology and accelerate the adoption of self-driving cars. The event was organized in association with the MMIT-IIC Centre, IEI Student Chapter and CSI Institutional Chapter and Robotronix club.

Date: 26th April 2023

Level of the event: State Level



Glimpses of the Roborace Event

Faculty Achievements

NIPAM — National Intellectual Property Awareness Mission



Ms. Apurva Ulhe (Faculty) | 8th February 2023

Successfully participated in the IP Awareness/Training program organized under the National Intellectual Property Awareness Mission (NIPAM) by the Intellectual Property Office, India.

Industrial Training — Data Analysis with MySQL



Ms. Apurva Ulhe (Assistant Professor) | 29th May – 2nd June 2023

Successfully completed a One Week (10 hours) Live Online Industrial Training on Data Analysis with MySQL, organized by EduLakes Solutions LLP in association with the National Service Scheme (NSS) – IIT Roorkee.

Student Achievements

Our students actively participated in state- and national-level competitions throughout the semester, showcasing their talent and bringing recognition to the department.

TECHNOBASH – 2023 (National Level Event)

Saurabh Bante, Harish Mali, Omkar Tawale, Mitesh Kate and Vrushabh Jain represented the department at TECHNOBASH-2023, a national-level technical event organized by GSMCOE, Pune.



Aditya Mogare | Pimpri Chinchwad College of Engineering, Pune

Participated in Techno Reel Making at "Spectrum 2023", organized by the Department of Applied Sciences and Humanities, PCCOE, Pune.

Academic Toppers — A.Y. 2022-23 (SEM-II)

S.E. (Second Year) — Top 3 Toppers of the Class

Rank	Exam Seat No.	Name of the Student	Credits Obtained	SGPA
1	S190595454	Bante Saurabh Radhesham	22	8.18
2	S190595475	Mulla Rehan Rajesaab	22	7.45
3	S190595453	Awhale Ketan Dattatray	22	7.09

T.E. (Third Year) — Overall Merit List of Toppers

Rank	Exam Seat No.	Name of the Student	Division	SGPA (out of 10)
1	T190595473	Malekar Sharayu Nanasaheb	A	9.14
2	T190595470	Lawand Omkar Bajirao	A	8.71
3	T190595467	Kapse Suraj Vishvas	A	8.62
4	T190595476	Nawale Shubham Mahesh	A	8.38
5	T190595478	Niraj Onkar Mahajan	A	8.38

"It always seems impossible, until it's done." – Nelson Mandela

Editorial Board & About Us

Editorial Board

FACULTY EDITOR

Asst. Prof. Sonali S. Patil

STUDENT EDITOR

Shubham Nawale

STUDENT DESIGN TEAM

About the Institute

Marathwada Mitra Mandal's Institute of Technology, Lohgaon Pune was established in 2008 and conducts the following courses leading to a Bachelor's Degree in Engineering:

- Computer Engineering

Sangramraje Manikrao Deshmukh
Abhijeet Dinkar Shingote
Avishka Umesh Kadam

HEAD OF DEPARTMENT

Dr. Anjali J. Joshi

- Mechatronics Engineering
- Mechanical Engineering
- Civil Engineering
- Artificial Intelligence & Data Science

All these courses are approved by All India Council for Technical Education (AICTE), New Delhi, sanctioned by Govt. of Maharashtra and affiliated to Savitribai Phule Pune University. The Marathwada Mitra Mandal Society, Pune was established in 1963.

CONTACT US

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