

"Where Mechanics, Electronics and Computing Converge"

DEPARTMENT OF MECHATRONICS ENGINEERING

A.Y. 2023-24 (SEM-II) • June 2024



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 & PSO

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. Mukesh G. Ghogare
Head of Department, Mechatronics

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, and printing and photocopy machines. Modern automobiles have several mechatronic systems such as electric power assisted steering, engine management system and cruise control.

The newsletter is one of the ways in which we can disseminate information on the life of the Department. This semester our students took part in an add-on course, showcased their ideas at Technosci 2024, won at the national level and saw automation at work during an industrial visit. We also welcomed parents to the department for a fruitful interaction. As you read through the pages you will realize that the Department had a particularly successful semester.

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

- Dr. Mukesh G. Ghogare (HoD Mtrx.)

EDITOR'S VIEW

This newsletter is a space for our students and staff to share how they tackle real-world problems by drawing on ideas from different disciplines. Through these pages, you'll see their creativity, fresh thinking, and practical solutions that could make a difference in almost any workplace. This newsletter grows with your involvement, so we'd love to hear what you think. Your feedback means a lot to us!

- Asst. Prof. Apurva Ulhe, (Faculty)

Events

Add-on Course

The Department of Mechatronics Engineering organised an add-on course to give students practical skills beyond the university curriculum. Students worked hands-on with the department's automation and robotics laboratory set-ups under the guidance of faculty members.

The course helped students connect classroom concepts with real industrial applications and build confidence in working with modern equipment.



Technosci 2024 – Project / Poster Competition

The Robotronix club organised Technosci 2024, a project and poster competition, on 16th April 2024. Students presented their working projects and posters and explained their ideas to the judges and visitors.

The event gave participants a platform to show their technical creativity, teamwork and presentation skills.

Parents' Meet

The department organised a Parents' Meet on 9th March 2024. Faculty members interacted with parents about their wards' academic progress, attendance and overall development, and shared the department's plans for the semester.

Parents also shared valuable suggestions, which helped strengthen the partnership between the department and families.



Industrial Visit

Industrial Visit – Parle-G, Shivshakti Foods Pvt. Ltd.

Students of the department visited the Parle-G biscuit manufacturing unit of Shivshakti Foods Pvt. Ltd., Wadgaon Maval, Pune on 27th April 2024.

They observed the automated production and packaging lines and saw how sensors, conveyors and control systems work together in large-scale food processing. The visit gave students a real picture of how mechatronics is applied on the shop floor.



Faculty Achievements

Our faculty members actively upgraded their knowledge by completing training and Faculty Development Programmes in emerging areas such as Generative AI and simulation for robotics.

Mr. Harshal Dattatray Vaidya successfully completed a 21-day Masterclass on Generative AI conducted by Pantech e Learning Pvt. Ltd. in association with IETE, from 8th to 27th January 2024.

Mr. Shashikant Vasant Golande participated in the ISTE-approved one-week National Level Faculty Development Programme on “Innovations in Simulation Techniques for Robotics and Mechanical Systems,” organised by Dr. D. Y. Patil Institute of Technology, Pimpri, Pune, from 22nd to 27th January 2024.

Certificate Gallery



Simulation Techniques for Robotics FDP

Student Achievements

Competition Achievements

Our students brought laurels to the department by winning the national level Ideazz 2K24 competition held at SITS, Narhe, Pune on 4th April 2024.

Abhijit Shingote, Omkar Lawand and Abhinay Vishwakarma won Ideazz 2K24, a national-level competition held at SITS, Narhe, Pune on 4th April 2024. They competed against teams from several institutes and impressed the judges with their innovative ideas and clear presentation. Their win reflects their hard work and technical skill, and it brings real pride to the Department of Mechatronics Engineering. Congratulations to all three on this achievement!



Class Toppers

S.E. – Topper

Rank	Exam. Seat No.	Name of the Student	SGPA
1	S190595451	Agarwal Ashutosh Umashankar	9.05
2	S190595476	Kulkarni Prajakta Kishor	8.77
3	S190595490	Phegade Bhavna Chandrashekhar	8.59

T.E. Result – Top 3

Rank	Exam. Seat No.	Name of the Student	SGPA
1	T190595456	Bante Saurabh Radhesham	9.47
2	T190595483	Mulla Rehan Rajesaab	9.02
3	T190595478	Mali Aditya Amol	8.36

B.E. Result – Top 3

Rank	Exam. Seat No.	Name of the Student	SGPA
1	B190595469	Lawand Omkar Bajirao	9.93
2	B190595467	Kapse Suraj Vishvas	9.80
3	B190595474	Nawale Shubham Mahesh	9.60

“It always seems impossible, until it’s done.” – Nelson Mandela

Editorial Board & About Us

Editorial Board

FACULTY EDITOR

Asst. Prof. Apurva Ulhe

Department of Mechatronics Engineering

STUDENT EDITOR

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HEAD OF DEPARTMENT

Dr. Mukesh Ghogare

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
- 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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