

## DEPARTMENT OF MECHATRONICS ENGINEERING

December ,2023

Academic Year 2023-24



### Message from Head of the Department

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.

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. The past semester was highly affected by the Pandemic of Covid-19. Most of the activities were conducted through online mode. As you read through the pages you will realize that the Department had a particularly successful semester, during pandemic.

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 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. Shalaka A. kshirsagar



## Appointment of New Head of Department

### Dr. Mukesh G. Ghogare

Dr. Mukesh G. Ghogare is qualified in B. E Instrumentation, M. E. Instrumentation and Control Engineering, and Ph. D Instrumentation and Control Engineering. He has 22 Years of Experience in the teaching field. His Research Areas are Control Systems, Signal and Image Processing. He has 22 + National and International publications in Journal/Conference/Book Chapter.

## Five Days Workshop on Advanced Industrial Automation Training

**Date: 12th September 2023 to 16th September 2023**

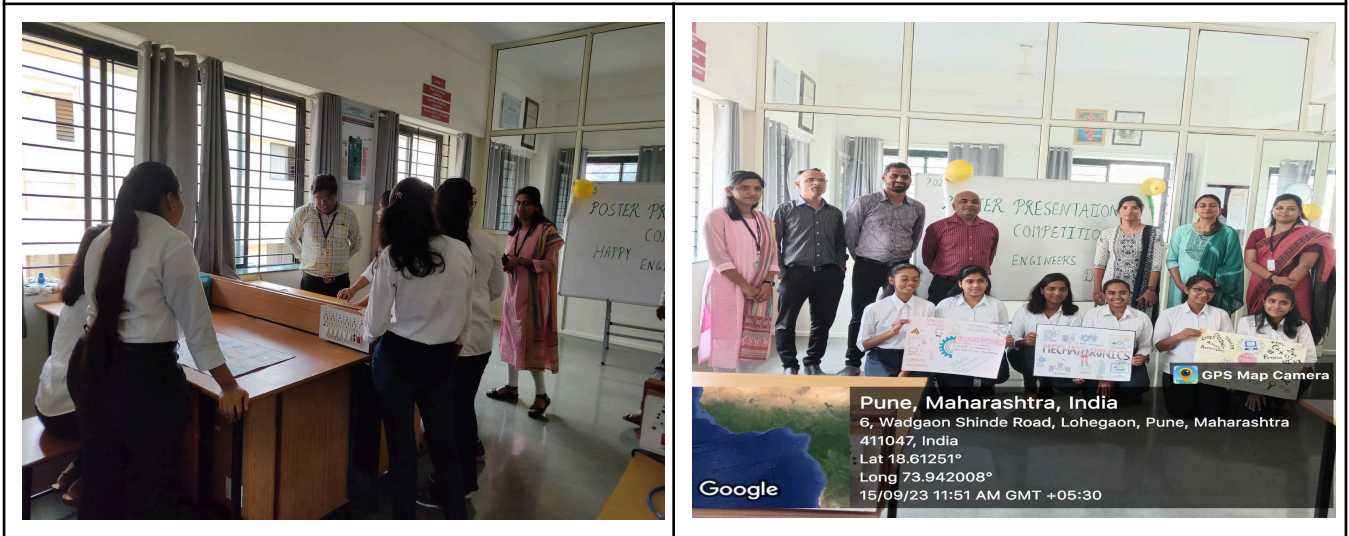
This Add-on course aimed to provide Automation awareness of PLC, HMI, SCADA, DRIVES and ANALOG for students and also provided some practical exposure with different kinds of applications in PLC, SCADA and HMI.

This add-course focused on following points:

- Introduction about PLC
- Types of PLC: Leading hardware, Software, Logic development.
- Introduction about HMI: Interfacing with PLC, Screen development, digital amp, analog data configuration, analog data scaling.
- Introduction about SCADA: Interfacing with PLC, Screen development, digital & analog data configuration, analog data scaling.
- Introduction about AC Drive: hardware, parameter setting, speed, direction, acceleration, and deceleration time control of induction.
- Introduction about Analog Signal: standard signal type, block diagram, ATD and DTA
- conversion program and wiring, Interface with SCADA.

### Images of workshop



**Poster Competition on Occasion of Engineer's Day****15th September 2023****Poster Competition Images**

This event was organized by MXEA of Mechatronics Department on the occasion of Engineers Day. Poster competition's theme was to depict and explain "What is Mechatronics?".

This topic was given so as to know what our students think about this branch. As Mechatronics is a multidisciplinary branch we received various posters of the branch through this poster competition.

**Session: "My Story - Motivational Session by Entrepreneur/Startup Founder"****28th November 2023**

This session was organized by the faculty of Mechatronics in collaboration with IIC. Mechatronics students attended the session in an interactive manner. The outcome of this session was to spread knowledge about entrepreneurship and the startup ecosystem and show how to take startups as a career option for students while studying. Also, Session was about motivating students and faculties to pursue the same. It was also an inspirational session for students about employability and how they can get better opportunities with the core knowledge in their field.



## Session Images



## Result for the academic year 2023-24 SEM 1

## Toppers 2023-24 (SEM 1)

## BE Class

Rank	Exam. Seat No.	Name of the Student	SGPA
1	B190595469	LAWAND OMKAR BAJIRAO	9.85
2	B190595467	KAPSE SURAJ VISHVAS	9.6
3	B190595474	NAWALE SHUBHAM MAHESH	9.35

## TE Class

Rank	Exam. Seat No.	Name of the Student	SGPA
1	T190595456	BANTE SAURABH RADHESHAM	9.14
2	T190595483	MULLA REHAN RAJESAAB	9
3	T190595481	MITESH MOTIRAM KATE	7.81

***It always seems impossible, until it's done. -Nelson Mandela.***

Marathwada Mitra Mandal's Institute Of Technology, Lohgaon Pune was established in 2008 and conducted the following Courses leading to Bachelor's Degree in Engineering 1.Computer Engineering 2. Mechatronics Engineering 3. Mechanical Engineering 4. Civil Engineering 5.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.

*College Website:*

[www.mmit.edu.in](http://www.mmit.edu.in)

*College Address:*

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