

DEPARTMENT OF MECHATRONICS ENGINEERING

December, 2021

Academic Year 2021-22



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 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

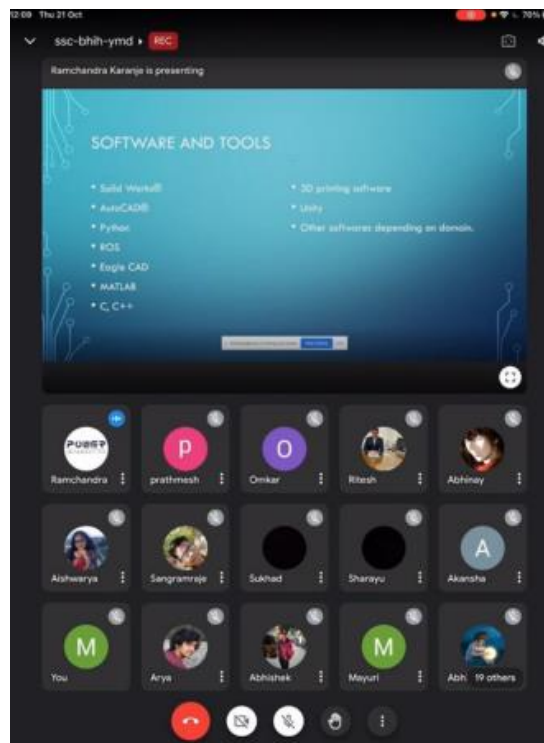


Syllabus framing and implementation workshop

Mechatronics is the new discipline introduced in SavitriBai Phule Pune University in Academic Year 2020-21. The syllabus for Second Year was framed with help of Board of studies Members , Academicians etc. Faculties from our department contributed excellently in the same.

Webinar on Mechatronics Engineering: Industrial aspects and opportunity

The webinar was organized by Mechatronics Engineering Department on 21st Oct 2021 on online platform. The resource person was Mr Ramchandra Karanje, Animatronics Engineer, Power Interactive FZ LLC, Dubai. The webinar aimed to provide an approach to look at the opportunities and what industry has to offer to the newly trained students from mechatronics background. The webinar gave insight to the industrial approach mechatronics branch has all over the world and challenges involved when you start working in the industry. The 27 participants got to learn the scope of Mechatronics in the outside world and some experienced speakers had to share about the opportunities abroad.

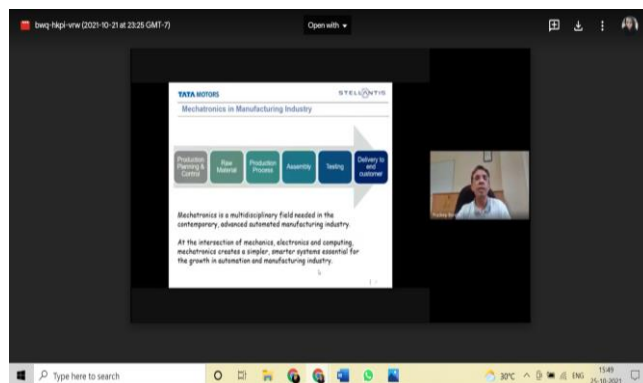
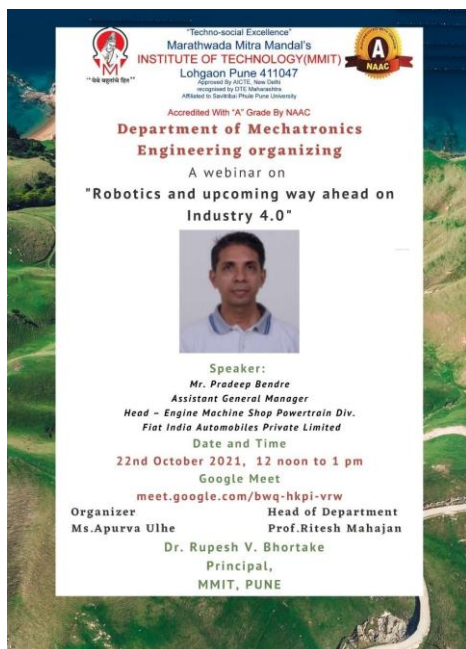


Participants for the webinar

Webinar on Robotics and upcoming way ahead on Industry 4.0

The webinar was organized by Mechatronics Engineering Department on 22nd Oct 2021 on online platform. The resource person was Mr.Pradeep Bendre, FIAT INDIA AUTOMOBILES PVT LTD. The objective of the webinar is to create and select appropriate techniques like Generation of Digital cases of Internet of things, Cloud computing , Big Data Analytics. Apply resources, modern engineering IT tools including prediction and modelling to, Virtual Reality, Cobots, Artificial Intelligence,

engineering activities with an understanding of the limitations. The 27 participants got to learn the scope of Mechatronics in the outside world and some experienced speakers had to share about the opportunities abroad.



Webinar on Robotics and upcoming way ahead on Industry 4.0

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.

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DEPARTMENT OF MECHATRONICS ENGINEERING

June, 2022

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One day workshop on Robot-Making -hands on Worskhop

the workshop was organized by Mechatronics Engineering Department on 21st March 2022 at MMIT, Lohegaon, Pune. The resource person was Mr. Aniket Waykos. The workshop aims to provide an Introduction to the ROBOTIC Environment. The workshop will give insight into Robo making . The participants will get to know interfacing and control of different peripherals by using Mechanical and Electronics Devices. The 25 participants got to learn the scope of Mechatronics in the outside world and some experienced speakers had to share about the opportunities abroad.



Hands on workshop on Robot-Making -hands on Worskhop

A competition on Robowar under Technosci 2K22

The Robowar competition was held at MMIT, Lohegaon, Pune under Techno Sci 2K22 on 22nd March 2022. The objective of the competition were to learn to identify active circuit components, symbols and how to read a circuit diagram, to use a Multimeter, to make a circuit on breadboard etc.



A competition on Robowar under Technosci 2K22

Two days hands on workshop on Arduino -programming & interfacing

The webinar was organized by Mechatronics Engineering Department on 28 th and 29th March 2022 MMIT, Lohegaon ,Pune . The resource person was Mr Prof. Rigved P. Kelkar Assistant Professor, Mechatronics Engineering, MMIT, Lohgaon, Pune. The workshop aims to provide an Introduction to the ARDUINO Environment. The workshop gave insight into the programming of ARDUINO using ARDUINO IDE software. The participants got to know interfacing and control of different peripherals by using ARDUINO Microcontroller . The 27 participants got to learn the scope of Mechatronics in the outside world and some experienced speakers had to share about the opportunities abroad.



Two days hands on workshop on Arduino -programming & interfacing

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