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YASHWANTRAO BHONSALE
POLYTECHNIC
NEWSLETTER

Mechatronics Engineering Department

The Robotronics..

VOL : I

APR. 2023

DIRECTOR'S DESK



Hon. Achyut Sawantbhonsale
Executive Chairman, SYBES

I am extremely happy to know announce that from this academic year, we are introducing the new program i.e. Mechatronics Engineering. By observing the present scenario, we have taken this decision to meet the demands of the outer world. As our other programs are doing well, I am sure, this venture will also be definitely fruitful.

I am very satisfied to know that this maiden Newsletter of this department **The Robotronics...** will provide platform for the students 'development. Keeping students' holistic development in the mind, we are providing all the basic amenities to them. So I congratulate all the committee members to bring this Newsletter. I am sure this Newsletter will get the best response from all.

Good Luck! ★★★

Editorial Committee

Editor in Chief

Mr. G. A. Bhosale (Principal)

Co-Ordinator

Mrs. Nehal N. Sandye (Lecturer)

Departmental Faculty Members

Mr. S.S. Lanjekar (Lecturer)



MISSION

To achieve academic and industrial skills in mechatronics engineering by applying an interdisciplinary approach beneficial to industry and society.

§ To circulate knowledge in the fields of mechanical, electrical & electronics, computer, and related fields, with an emphasis on encouraging the essential abilities and skills of Mechatronics Engineers

§ To enhance knowledge of Mechatronics in order to address the needs of society.

§ To expose our students with the outside world for technical advancement.

HOD'S DESK



D. D. Patil
HOD, Mechatronics Dept.

Welcome to the department of Mechatronics Engineering at YBP, Sawantwadi, the department with a state of art facilities and qualified faculty. The department works with the objective of addressing acute challenges faced by the Academia, Industry and the Society. Perhaps, even more important is our focus to persistently improve educational environment in our department, helping the students to learn, cultivate, progress, and accomplish their goals in their chase to excel in their professional career.

As machines and devices become smarter and connected, the engineering behind it is also getting more complex. The traditional divisions between various streams of engineering disciplines are blurring, merging and mixing to create new categories. Mechatronics is now the most important field of engineering that is creating devices, machines and systems that are not just connected but smart enough to create and capture activity data. Mechatronics engineering involves the integration of electrical, mechanical, and software components to develop products, systems, and solutions. In other words, it is an interdisciplinary field of engineering. Previously, you would have had mechanical engineers who would work on mechanical components and products, electrical engineers who would do all the electrical elements, and computer engineers who would look after the computer hardware and software aspects. Modern solutions require much deeper integration of these engineering fields, creating the need for engineers with mechatronics skills.

The increase in robotics that can coordinate with humans and also act alone without human assistance with accuracy and smartness is molding the future of Mechatronics in India. The automation of almost everything, small or large systems has brought an improvement in the demand for the manufacturing of mechatronic products, increasing the need for a technological workforce which makes this branch even more sought after among students. The human intellect and inclination towards all mechanical things are now becoming the future of Mechatronics in India. Since mechatronics applications are vital in many industries such as automotive, aviation, plant cultivation, etc., the study of this emerging technology can be an advantage in empowerment in the future. These days Mechatronics is in demand, and one can make a brighter future by pursuing this program

★★★



About Department

Mechatronics engineering is a multidisciplinary branch of the engineering field that deals with the study of electronics engineering, mechanical engineering, telecommunications, computer engineering, system engineering, and control engineering. It is a connection amongst technicians and engineers and gradually work from origination of a project to the culmination of the undertaking. Mechatronics Engineering programme incorporates a wide range of education in the basic standards and principles of Mechatronics, computer, and mechanical engineering. It mainly focuses on various parts of mechatronics such as modelling, sensors, controllers, real-time computer interfacing, and actuators. A candidate possessing a Mechatronics Engineering degree can work on different aspects of technology such as control systems, artificial intelligence (AI) and expert systems, robotics, transportation, and computer integrated manufacturing systems and much more. Skilled mechatronic engineers are in high demand in the field of implementing, designing and operating internet control of machines, engine management systems and autonomous robots. Mechatronics engineers most commonly work with a mechanical team, an engineering team or both. They often work with electronics, real-time software, instrumentation and other mechanical and/or electrical machines. A mechatronics engineer typically plays a fundamental role in product development and uses engineering principles such as electronics, software, mechanics and control engineering throughout the developmental process.

In a nutshell Mechatronics is now the most important field of engineering that is creating devices, machines and systems that are not just connected but smart enough to create and capture activity data.

WINTER 2022 RESULT : TOPPERS

FY MECHATRONICS



**Kunal
Gawalkar**
81.00%



**Ved
Kopkar**
78.57%



**Zishan
Khanapuri**
77.29%

Teacher Parents Meet

Humanity Department of Yashwantrao Bhonsale Polytechnic Sawantwadi, successfully arranged Parents Meet on 6th April 2023. After the formal inauguration, the meeting started with the speeches given by Principal, HODs and the TPO Head M.R. Desai. The purpose behind this meet was to make the parents aware about the overall schedule of the semester, various academic activities, the examinations, measures taken to improve the result and discipline of the campus. For this meet, YBP Principal G.A. Bhosale,, Mechatronics HOD D.D. Patil, Computer HOD P.D. Kate, Civil HOD P.P. Sawant, Mechanical HOD A.J. Rane, Electrical HOD, B.M. Patil FY Co-ordinator A.G. Prabhu all FY teaching staff members, parents and students were present. At the end of this meet, special parent-teacher interaction session held. Parents queries were properly solved by the respective teachers. Meeting ended with vote of thanks given by A.G. Prabhu.

Guest Lecture for FY students

Humanity Department of YBP organized Guest Lecture on “Importance of Mathematics in Engineering”, for all FY students on 25th Nov. 2022. Mr. Achary Jagdish was the resource person. Mr. Amey Madgaonkar welcomed the guest and then the main session started. The guest speaker explained the importance of Mathematics in day-to-day life in a simple way. He also covered the use of Mathematics in computers, IT industry and latest Engineering trends. He shared his valuable knowledge and industry related scope of emerging technologies. He also cleared the doubts raised by the students, Over 203 students and FY faculty members attended this session. The session ended with delivering vote of thanks by Mr. Amar Prabhu.

WHY MECHTRONICS?

FY Mechatronics

Mechatronics Engineering is a combination of Mechanical and Electronics Engineering and it also includes computer and Electrical Advantages of Mechatronics and reasons for pursuing :

1. Mechatronics unlocks a student's true potential as they can express their talent in any field.
2. This makes the students ready to face any error in any product, be it Mechanical, Electrical or even a system error in a computer.
3. Due to the revelation of new and advanced technology, this field is best for supporting those technological giants.
4. The future of Mechatronics Engineering students can go a lot of ways :



Ved Kopkar

- a) They can pursue robotics
- b) They can go as far as to study AI (Artificial Intelligence)

Overall Mechatronics Engineering has a great future.