

**Annasaheb Awate Arts, Commerce and Hutatma Babu Genu Science College,
Manchar, Pune 410503**

Department of Electronic Science

Webinar Report on Robotics & Its Application in Real-Life

2022-23

Department of Electronic Science, Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College Manchar, Pune organized a State Level Webinar on **“ROBOTICS & ITS APPLICATION IN REAL LIFE”** for students and staff from other colleges also. The Webinar was held on **18th October 2022 at noon on Google Meet.**

Respected, **Dr Shaikh, Assistant Professor, Department of Electronic Science, New Arts, Commerce and Science College, Ahmednagar** was a Resource person. The Webinar began at noon in the presence of all the members of the Electronic Science Department. The objectives of the webinar were to learn about Parts of Robot and their application, and the current research trends in it.

The webinar was hosted by Ms Afroj M Dange, Assistant Professor at the Department of Electronic Science, also with a brief introduction of the Chief Guest who welcomed all the participants.

The Webinar witnessed active participation from Electronic Science students from our college and other colleges also. Nearly **153 Participants** joined the Webinar virtually.

Dr. Shaikh Sir delivered his presentation on **ROBOTICS & ITS APPLICATION IN REAL LIFE** he started the session with ppt showing how sensors are placed on Mars to collect data. He gave information about the various parts of Robotics. He discussed the types of details of robots, and sensors about the various standards of sensors. He also explains all types of sensors and actuators.

The session was very informative. They discussed areas that were of great benefit to the participants as the topic was very much relevant to the current scenario and working domain. Participants were enlightened with the most widely used advanced technologies in this domain. The Webinar ended with a Questionnaire session followed by a vote of thanks. Feedback for the session was also collected and E-certificate was distributed to all the active participants.

Our Head, Mr.S.A.Belage addressed participants in a presidential speech.

The session ended with a vote of thanks. Ms J B Khilari proposed the formal vote of thanks.

Outcome:

These 65-minute webinars provided great benefits for participants in ROBOTICS fundamental concepts and how to accelerate Robotics as well as the technical consideration for successfully developing and implementing Robotics solutions.

Enclosures:

- Flyer of the Webinar
- Invitation to the Webinar
- Photos of the webinar




Head
Dept. of Electronics Science
A. A. College, Manchar

Photos of the Webinar

What is Robotics?

Definition:

- ❖ Robotics is an **interdisciplinary** field that integrates **computer science** and **engineering**.
- ❖ Robotics involves **design**, **construction**, **operation**, and use of robots.
- ❖ The **goal** of robotics is to design machines that can help and assist humans.
- ❖ Robotics is the device that can move and react to sensory input.

Software, Robotics, Hardware

Dr. Mudassar Shaikh is presenting

Afroj Dange is presenting

Dr. Mudassar Shaikh has left the meeting

Swati Bhokare and Umesh Waghmare roll no.3464 have raised hands

12:31 PM | zqo-hdtq-rdp

What is Mechatronics

Mechanics + Electronics = Mechatronics

- Synergistic combination of mechanics, electronics, microprocessors and control engineering.
- Does not take advantage of inherent uniqueness available.
- Control of complex electro-mechanical systems.

Control Systems, Digital Control Systems, Computers, Mechanical CAD, Mechanical Systems, Electronic Systems, Control Electronics

Dr. Mudassar Shaikh is presenting

Dr. Mudassar Shaikh is presenting

mohansing padvi can now join this meeting

12:18 PM | fze-twez-rab

Google Meet interface showing a presentation titled "What is Robotics?". The presentation content includes:

Definition:

- ❖ Robotics is an **interdisciplinary** field that integrates computer science and engineering.
- ❖ Robotics involves **design, construction, operation, and use of robots.**
- ❖ The **goal** of robotics is to **design machines** that can help and assist humans.
- ❖ Robotics is the device that can move and react to **sensory input.**

The presentation also features a Venn diagram illustrating the interdisciplinary nature of robotics, with overlapping circles for Software, Hardware, and Robotics. Below the text, there is an image of a robotic hand.

The meeting interface shows participants: Gyanendra Singh, C-61 Rutuja Ubale, suresh belage, GAURAV DANE, Swati Bhokare, Umesh Waghmare roll..., and 12 others. The time is 12:33 PM on 10/18/2022.

Google Meet interface showing a presentation titled "Components of Robotics (Continue...)". The presentation content includes:

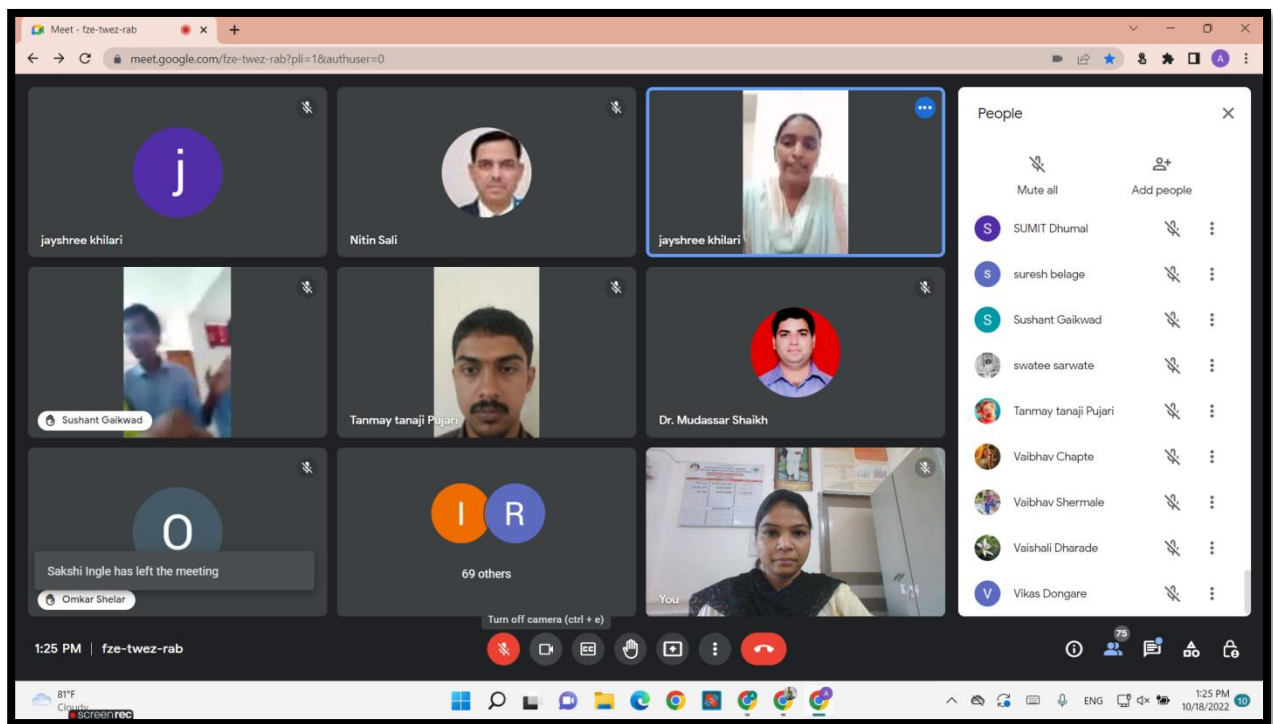
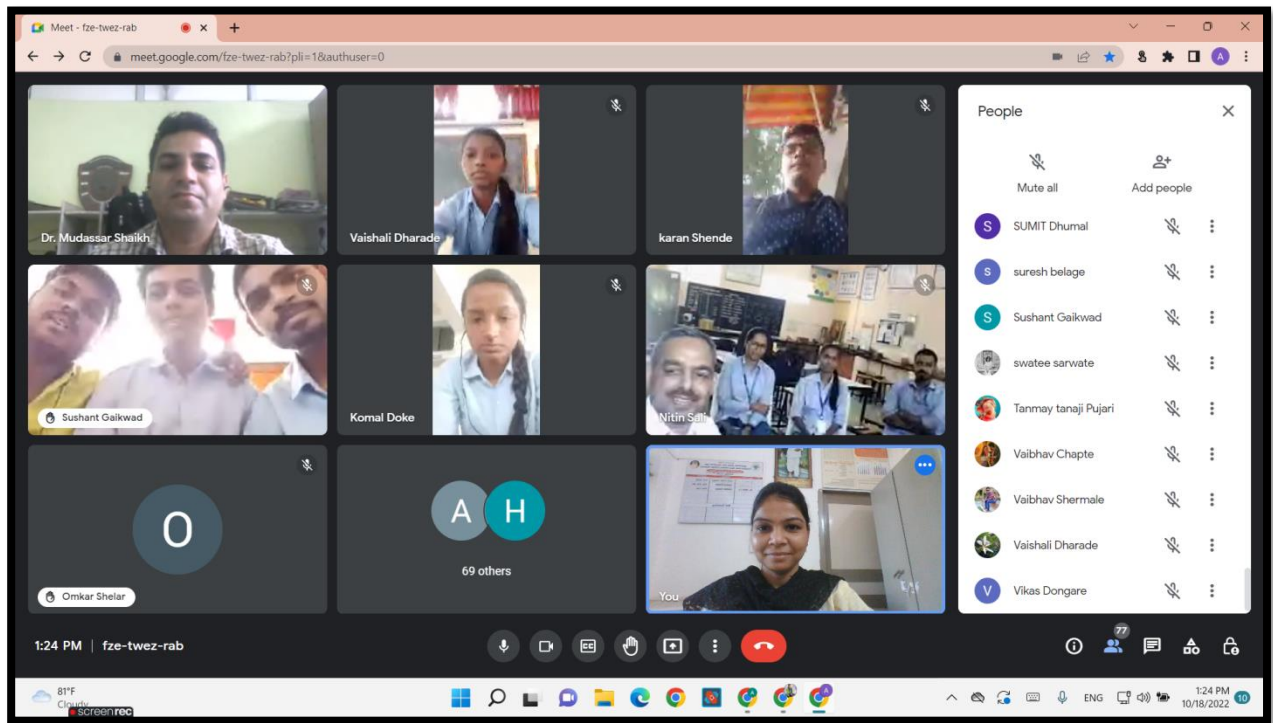
Sensors

Actuators

Manipulators

The presentation also features a diagram illustrating the components of a robotic system, including sensors, actuators, and manipulators, connected to a central control unit.

The meeting interface shows participants: Jayshree Pachorkar, GAURAV DANE, Umesh Waghmare roll..., Afroj Dange, Sayali Shinde, suresh belage, and Pallavi Agarkar joined. The time is 12:40 PM on 10/18/2022.



Handwritten signature
 Head
 Dept. of Electronics Science
 A. A. College, Manchar