

One-Day Online Workshop on "Mechanical Automation using Arduino and its application in Industry 4.0"

Date: January 21, 2022

Participants: 20

Saffrony Institute of Technology organized a one-day online workshop on "Mechanical Automation using Arduino and its application in Industry 4.0" for 6th-semester Mechanical Department students. The workshop aimed to provide a comprehensive understanding of automation principles, focusing on Arduino applications, and bridging the gap between theoretical knowledge and practical implications.

Workshop Highlights:

- ✚ **Objective:** The primary objective of the workshop was to equip 6th-semester Mechanical Department students with a deep understanding of automation principles, particularly in the context of Arduino applications and their relevance to Industry 4.0.
- ✚ **Comprehensive Learning:** The workshop covered a wide range of topics related to mechanical automation, emphasizing the practical application of Arduino in real-world scenarios. This comprehensive approach ensured that students gained a holistic understanding of modern automation in the field of mechanical engineering.
- ✚ **Industry 4.0 Focus:** Recognizing the importance of Industry 4.0, the workshop emphasized how the skills acquired through the understanding of Arduino applications contribute to the ongoing technological revolution in the industry.
- ✚ **Skill Development:** The hands-on nature of the workshop allowed students to apply theoretical concepts in a practical setting, enhancing their skills and proficiency in the realm of mechanical automation.

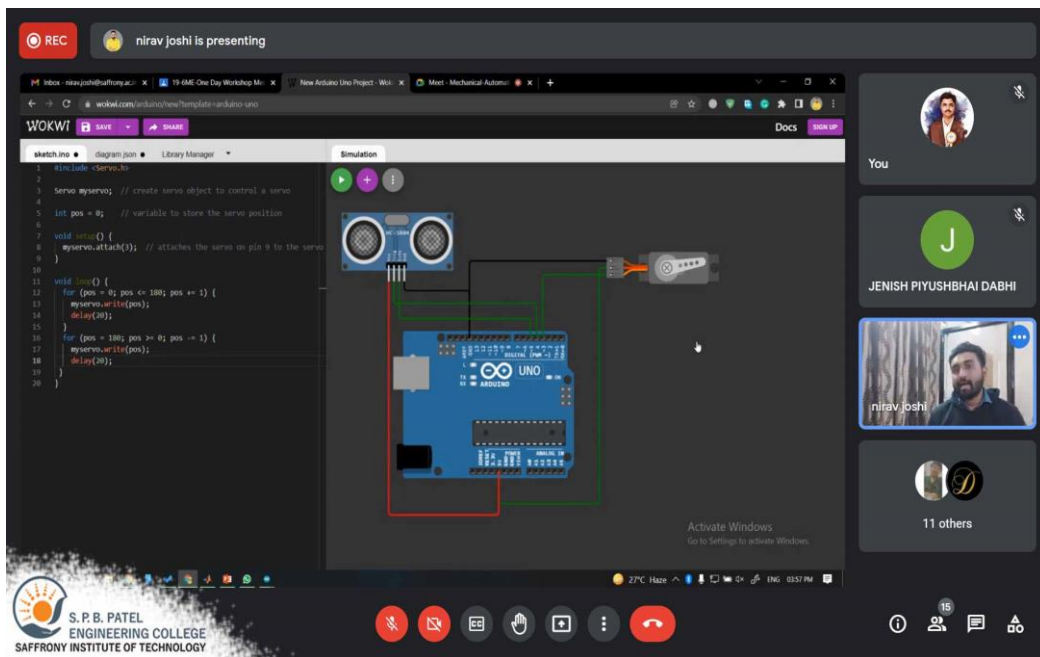
Outcome:

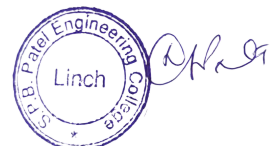
The one-day online workshop proved to be a success, with 20 participants gaining valuable insights and skills in the field of mechanical automation using Arduino. The practical focus and relevance to Industry 4.0 ensured that students were well-prepared for the demands of modern mechanical engineering.

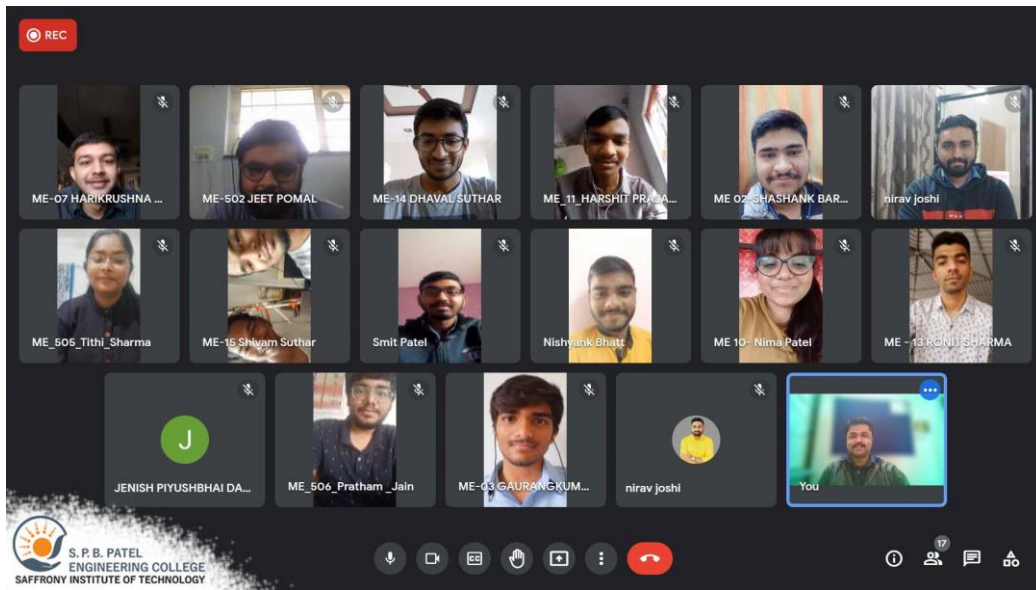
Conclusion:

Saffrony Institute of Technology acknowledges the success of the One-Day Online Workshop and the positive impact it has had on the skill development of 6th-semester Mechanical Department students. The institution remains committed to organizing such events that bridge the gap between theory and practice, preparing students for the evolving landscape of their respective fields.

Photographs:







REC
nirav joshi is presenting


Introduction to Arduino

- Arduino is an open-source electronics platform based on easy-to-use hardware and software.
- Arduino boards are able to read inputs [via light on a sensor, a finger on a button or from pin] and turn it into an output [by activating a motor, turning on an LED, publishing something online].
- The Arduino Uno can be powered via the USB connection or with an external power supply.
- The power source is selected automatically.






You



nirav joshi

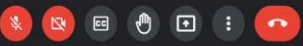



ME-14 DHAVAL SUTHAR

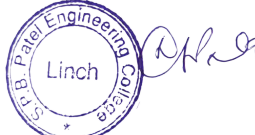


ME-10- Nima Patel


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ENGINEERING COLLEGE
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18




A screenshot of a Zoom meeting interface. The top left corner has a red 'REC' button. The main area displays a grid of 17 video thumbnails. The first row contains six thumbnails with names: ME-07 HARIKRUSHNA..., ME-502 JEET POMAL, ME-14 DHAVAL SUTHAR, ME_11_HARSHIT PRA..., ME 02 SHASHANK BAR..., and nirav joshi. The second row contains six thumbnails with names: ME_505_Tithi_Sharma, ME-15 Shivam Suthar, Smit Patel, Nishyank Bhatt, ME 10- Nima Patel, and ME -13 RONIT SHARMA. The third row contains four thumbnails: a green circle with 'J' for JENISH PIYUSHBHAI DA..., ME_506 Pratham Jain, ME-03 GAURANG KUM..., and nirav joshi. A larger thumbnail on the right shows 'You' with a blue border. The bottom control bar includes icons for mute, video, chat, hand raise, share screen, and a red end call button. On the right side of the control bar, there are icons for a help menu, a participant list showing 17 people, a chat icon, and a share icon.

S. P. B. Patel Engineering College
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