Department of Mechanical Engineering
Report on – K12 Activity

Title: Automation Boon or Bane
Date: 11th December 2023
Time: 9:00 AM to 11:00 AM
Venue: CES's Michael High School, Kurla

Target Audience: Students of St. Micheal school

No. of Participants Present: 30

Resource Person: Ms. Samina
Organization of Recourse Person: CES's Michael High School, Kurla
Organizing Department / Committee / Authority: ISHRAE DBIT Student Chapter
Faculty Coordinator: Prof. Cleta Pereira

Objectives:
❖ Efficiency and Productivity
❖ Innovation and Technological Advancement
❖ Job Displacement vs. Job Creation
❖ Safety and Risk Reduction
❖ Economic Growth and Competitiveness

Outcomes:
❖ Increased Efficiency
❖ Cost Reduction
❖ Innovation and Advancements
❖ Safer Work Environments

Detailed Report:

"Automation Boon or Bane", a K12 activity was held on 11th December 2023 at 9:00 AM. The activity was conducted by ISHRAE DBIT Student Chapter and ISHRAE faculty Advisor, Prof. Cleta Pereira. The activity was conducted offline for the students of CE's Micheal School. The activities performed by the council members was to introduce the students to The World of Automation. So to make the session interesting for the students we the ISHRAE DBIT Chapter student council came up with an intriguing way to make the learning more fun and interactive.

Vilas Kodam (Co K12 Chair) started the event by introducing the audience to the meaning of Automation. He asked the students what Automation means and where they have seen it being used. He introduced the K12 team to students with the topics which are to be covered in this activity.

Activity: Introduction to Automation

Jaee Hindalekar (Women in ISHRAE) explained Automation refers to the use of technology and machines to perform repetitive tasks or functions with minimal human input. It involves creating systems or processes that can operate automatically, following predefined instructions or algorithms. From manufacturing plants to everyday devices like automatic doors or washing machines, automation plays a pivotal role in various aspects of our lives. Imagine a scenario where robots assemble cars in a factory or a system that automatically waters plants based on a set schedule. These are examples of automation simplifying tasks and making our lives easier and more efficient.

Throughout our exploration, we'll delve into the mechanisms behind automation, understanding how machines are programmed to perform specific actions, the role of sensors and computer systems, and how these technologies come together to create seamless automated processes.

The movies chosen were diverse, ranging from science fiction classics to documentaries showcasing real-life examples of automation. These movies sparked discussions about the ethical dilemmas surrounding the integration of AI into society and how machines might interact with humans in the future. They shed light on how automation is revolutionizing industries, transforming manufacturing processes, and impacting the workforce.

Following each movie screening, interactive discussions were conducted to encourage students to reflect on the themes presented. Guided questions prompted them to analyze the benefits and challenges of automation, its potential impact on jobs, ethical considerations, and the role of innovation in shaping our future.Furthermore, hands-on activities were integrated into the workshop to complement the movie screenings. Students engaged in small-group tasks, simulating automated processes using simple props and programming basic sequences, fostering a practical understanding of how automation functions.

The workshop successfully utilized cinematic narratives to engage students and elucidate the complexities of automation. By weaving movies into the curriculum, it provided a multidimensional understanding of automation's impact on society, ethics, and the future of work. The interactive discussions fostered critical thinking and encouraged students to contemplate the role of automation in their lives.

To further enhance understanding, future workshops could incorporate a broader range of films covering various aspects of automation. Additionally, hands-on activities or case studies could supplement the movie screenings to offer practical insights into the workings of automated systems.

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Premier Automobiles Road, Kurla West, Mumbai - 400070

Snapshot of the Event:

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Geotagged Photos:

Event Poster:

List of ISHRAE attendees for the event.

Sr. No.	Name	Position
1	Sahil Jadhav	Secretary
2	Vilas Kodam	Co K12 chair
3	Ankit Kshirsagar	Sports chair
4	Jaee Hindalekar	Environment chair
5	Rahi Prajapati	Chapter working committee
6	Vedika Mathews	Sub-Chapter working committee
7	Amogh Solanki	ISHRAE member
8	Sanjay Gundeti	ISHRAE member

Report Prepared By: Prajapati Rahi

Name of the Student: Prajapati Rahi

Post of the student: Chapter Working

Committee

Report Approved By: Prof. Cleta Pereira

Name of the Faculty: Prof. Cleta Pereira

Post of the Faculty: Faculty Coordinator