



NEW HORIZON COLLEGE OF ENGINEERING

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

GREEN ENERGY CLUB



“INDUSTRY 4.0 REVOLUTION WORKSHOP”



DATE : 10-06-2023

CLUB COORDINATOR : MR. VINOD KUMAR S

VENUE : SCHNEIDER LAB, NHCE

CLUB PRESIDENT : YASHWANTHA P

TIME : 9AM ONWARDS

OBJECTIVE

The phrase "industry 4.0" has gained popularity and use during the past few years. Organizations from various industries around the world are developing strategies to switch from manual production methods to automated and digital processes. This workshop objective was to innovative ways of thinking, networking opportunities, and the acquisition of new skills.

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COLLEGE OF ENGINEERING

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Azadi Ka
Amrit Mahotsav

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

GREEN ENERGY CLUB & CODENPLAY ROBOTICS
PRESENTS
HANDS-ON WORKSHOP

"INDUSTRY 4.0 REVOLUTION WORKSHOP"
BEYOND AUTOMATION

 **Dr. MANIKANDAN P**
Chief Technology Officer
Codenplay Robotics
Bengaluru



CONVENOR
Dr SUJITHA.S
HOD- EEE

FACULTY COORDINATOR
Mr. VINOD KUMAR S
Senior Assistant Professor

FOR REGISTRATIONS



Student Coordinators
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SRINIVAS : 89715 96709

Date: 10/06/2023

Time: 9:00 AM onwards

Venue: Schnider Lab, NHCE



INTRODUCTION

Workshop held on 10-6-23, brought a wide idea about revolution of industries.

We will be able to investigate real world instances, discover the most recent breakthroughs, and create plans for applying industry 4.0 in our unique projects. The logical sequential gates been revealed will broaden our thinking in industrial point of view. The trend towards automation and data exchange in manufacturing technologies and processes, including cyber-physical systems (CPS), IoT, industrial internet of things, cloud computing, cognitive computing, and artificial intelligence, is essentially what the Fourth Industrial Revolution entails.

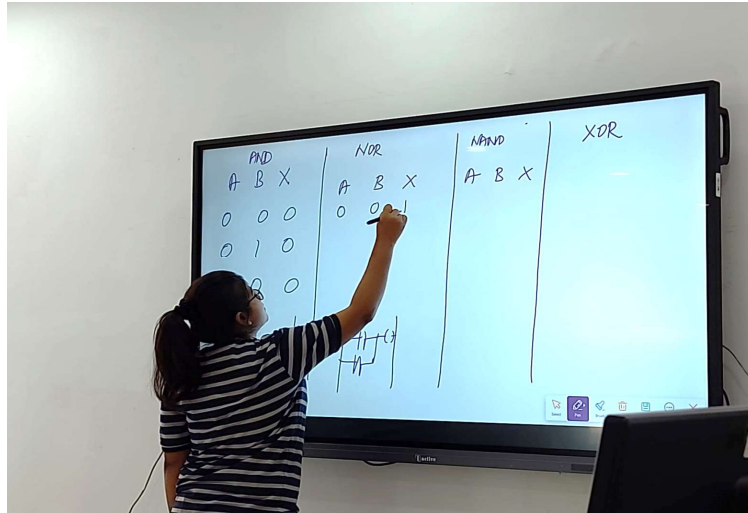


ACTIVITY HANDS ON TASK



Our minds were stimulated by a quick task that used different types of logic circuits and a hardware-software system that interacted. Both sequential and combinational logic circuits can be found in logic circuits, which are composed of their component parts. A learnt truth table containing basic logic gates (AND, OR, and so on) is used to construct a Boolean statement that explains combinational logic.





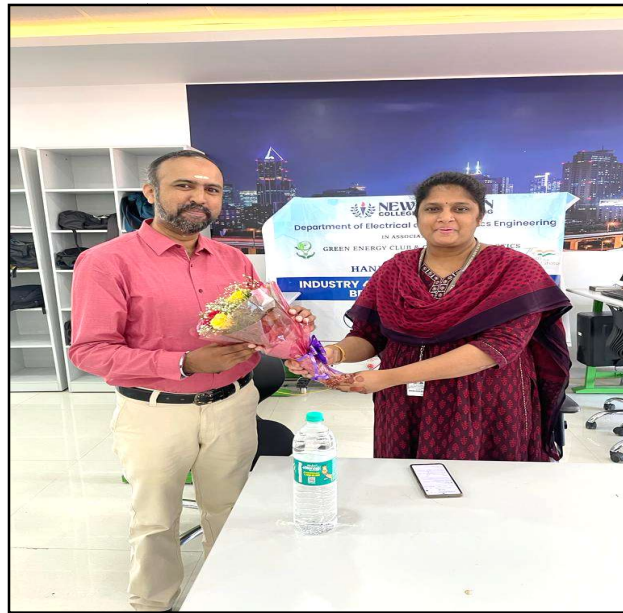
In order to promote efficiency, innovation, and competitiveness, it strives to provide a thorough grasp of how cutting-edge digital technology may alter manufacturing and industrial processes. Participants will look at actual instances, with the main lessons being interlocking systems (with various examples) and how logic gates are used in various technologies. Through this activity, we learned about the most recent developments and developed strategies for incorporating Industry 4.0 into our various upcoming projects.





CONCLUSION

We finished all the tasks by 12.30 pm. Overall, the workshop of industry 4.0 revolution beyond automation, gained insights into how advanced digital technologies can revolutionize manufacturing and industrial processes, leading to improved efficiency, innovation.



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