



छोटुभाई गोपालभाई पटेल प्रौद्योगिकी संस्थान, बारडोली
Chhotubhai Gopalbhai Patel Institute of Technology, Bardoli

Uka Tarsadia University

Maya Tarsadia Industrial Automation Research and Development Centre at C G Patel Institute of Technology

Report on One-day Workshop on “Industrial Automation”

Date	Friday, October 4, 2024
Venue	Maya Tarsadia Industrial Automation Research and Development Centre, CGPIT
Time	9:00 AM
Total Number of Participants	33 Students of Government Engineering College - Surat
Name of Expert	BOSCH Team
Event Coordinator	Prof. Jayesh Parekh and Team
Program Objective	The objective of this workshop is to provide hands-on experience and insights into industrial automation, enhancing participants' understanding of automation technologies and their applications in modern manufacturing processes.
Program Outline	The program covers an introduction to industrial automation, hands-on sessions with BOSCH equipment, real-time application demonstrations, and discussions on

	the latest trends in automation technologies and their industry relevance.
Program Outcome	Participants will gain practical skills in industrial automation, understand its applications in manufacturing, and be equipped with knowledge of current automation technologies and trends for enhancing operational efficiency.

Schedule of Event:

Sr. No.	Topic	Time
1	Registration and Breakfast	09:00 AM to 09:30 AM
2	Industrial Hydraulics	09:30 AM to 10:45 AM
3	Introduction to Sensors and PLC	10:45 AM to 12:00 PM
4	Lunch Break	12:00 PM to 01:00 PM
5	Industrial Pneumatics	01:00 PM to 02:15 PM
6	Felicitation and Certificate Distribution	02:15 PM to 02:30 PM

Banner of an Event:

Hand-on Workshop on
**INDUSTRIAL
 AUTOMATION**
 for
 Government Engineering
 College - Surat

OCT 04 | 9 AM

ORGANIZED BY

Maya Tarsadia Industrial
 Automation Research
 and Development Centre,
 C G Patel Institute of
 Technology

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UTU
 UKA TARSADIA
 UNIVERSITY
www.utu.ac.in

List of Participants:

Sr. No.	Name of Participant	Enrollment No.
1	GIRI PRINCE SUNIL	220230119014
2	RATHOD BHAVIK DIGAMBER	220230119054
3	VAGHELA MANAV AMRUTBHAI	220230119073
4	MALL VIKASH TEJBAHADUR	220230119026
5	PATEL DEV BHARATBHAI	220230119044
6	VARDE YASHVARDHAN MAHESHKUMAR	230233119014
7	YUSUF HUZEIFA GORIAWALA	220230119076
8	DEEPAKCHANDRA NAVINCHANDRA	220230119008
9	YADAV SHUBHAM HANUMAN PRASAD	220230119074
10	LAKSHYA SINGH	220230119024
11	SINGH ADARSH SHRI NAGENDRA	220230119060
12	RAJAK BIPIN SUBHASH	220230119052
13	SAVANI RAJDEEP KANTIBHAI	230233119013
14	KHENI PRANAV JAGDISHBHAI	230233119006
15	RANA RAJVI PRAVINKUMAR	220230119053
16	MAYANK JANAK KANSARA	220230119029
17	PATEL MANAVKUMAR HITESHBHAI	220230119046
18	PATEL SMITHKUMAR SANDIPBHAI	220230119048
19	MISTRY MILIKUMARI KISHORBHAI	220230119030
20	GAMIT BHAVINBHAI CHETANBHAI	230233119002
21	JAGATAP MEHUL JAGADISH	220230119018
22	DESAI MEGH BHAVIN	220230119009
23	KANSARA SIDHANT PINAKIN	220230119021
24	PARMAR DIVYESH NATVARSINH	220230119042
25	PATEL NEEL KETANKUMAR	230233119009
26	KANJARIYA SUNIL ASHOKBHAI	230233119004
27	PATEL KUSH HARSADBHAI	230233119008
28	SHAH RANJEET VIRENDRA	220230119058
29	VIKASH SHYAMSUNDAR KUSHWAHA	220230119023
30	NAVEEN KUMAR YADAV	220230119037
31	LAXMAN KAILASH PATIL	230233119010
32	NIKHIL RAJENDRA PATIL	230233119011
33	PATEL HARSHIV RAJUBHAI	220230119045

Introduction:

Maya Tarsadia Industrial Automation Research and Development Centre at C G Patel Institute of Technology organized a one-day workshop on "Industrial Automation" at the prestigious BOSCH Centre of Excellence on Friday, 04 October 2024. This workshop aimed to provide students and professionals with a comprehensive understanding of the latest industrial automation technologies, emphasizing hands-on experience with cutting-edge BOSCH equipment. As industries shift toward automation to enhance productivity and efficiency, it is

crucial for engineering students and professionals to stay abreast of these advancements. Through interactive sessions, practical demonstrations, and expert-led discussions, participants explored the applications of automation in modern manufacturing processes. The workshop served as a platform for bridging the gap between academic learning and industry practices, preparing participants for the evolving industrial landscape.

Objective and Significance:

The key objective of the one-day workshop on "Industrial Automation" was to equip participants with practical knowledge and skills related to the application of automation technologies in modern industries. Through hands-on training and expert-led sessions, participants gained insights into the workings of BOSCH automation equipment and its integration into manufacturing processes. The workshop emphasized the importance of automation in improving productivity, efficiency, and quality control in industrial settings.

The significance of the session lies in preparing students and professionals for the ongoing transformation in manufacturing driven by automation. By bridging the gap between theoretical knowledge and real-world applications, the workshop empowered participants to adopt cutting-edge technologies, enhancing their readiness for the future of smart and automated industries.

Key Highlights:

- **Hands-on Training:** Practical exposure to BOSCH industrial automation equipment, enabling participants to learn through real-time applications.
- **Expert Guidance:** Sessions led by industry experts, offering valuable insights into automation technologies and their industrial significance.
- **Real-world Applications:** Demonstrations of automation in various manufacturing processes, highlighting its role in enhancing productivity and efficiency.
- **Cutting-edge Technology:** Exploration of the latest automation trends and tools, providing participants with up-to-date knowledge of industry advancements.
- **Interactive Discussions:** Opportunities for participants to engage in discussions with professionals, clarifying concepts and exploring future possibilities in automation.
- **Industry Readiness:** The workshop focused on preparing students and professionals for the evolving landscape of smart and automated industries, equipping them with essential skills.

Summary of Discussions:

The discussion during the session centered around the practical applications of industrial automation in enhancing manufacturing efficiency and productivity. Experts highlighted the significance of BOSCH automation technologies in modern industries and discussed emerging trends like smart factories and AI integration. Participants engaged in interactive conversations, gaining deeper insights into automation's role in driving innovation and its potential to shape the future of industrial operations.

Overall Success and Impact:

The one-day workshop on "Industrial Automation" at the BOSCH Centre of Excellence was highly successful, offering participants an enriching experience that combined theoretical knowledge with practical, hands-on training. The sessions, led by industry experts, provided deep insights into modern automation technologies and their applications in real-world manufacturing. Participants were able to engage with state-of-the-art BOSCH equipment, gaining valuable skills that are highly relevant to current industry needs. The workshop significantly enhanced their understanding of industrial automation trends, making them more equipped to meet the evolving demands of the industry. This initiative also fostered stronger ties between academic learning and industry practices.

Pictures:



Session on Industrial Hydraulics by Dr. Hiren Shah



Session on Industrial Hydraulics by Prof. Jayesh Parekh



Session on Industrial Hydraulics by Prof. Mo. Hussain Shaikh



Session on Sensors by Prof. Jay Patel



Session on PLC by Dr. Mayank Kapadia and Prof. Chintan Desai



Session on PLC by Prof. Nita Patil



Certificate Distribution to Students by Prof. B M Vadher Sir



Certificate Distribution to Students by Prof. B M Vadher Sir



Felicitation of Faculty Trainers by Prof. B M Vadher Sir



Group Photo

Conclusion:

The one-day workshop on "Industrial Automation" at the BOSCH Centre of Excellence concluded with resounding success, offering participants invaluable knowledge and hands-on experience with advanced automation technologies. Through expert-led sessions, real-world applications, and interactive discussions, the workshop bridged the gap between academic theory and practical industry needs. Participants left with a clearer understanding of automation's role in enhancing productivity, efficiency, and innovation in modern manufacturing. The session not only equipped them with relevant skills but also emphasized the importance of staying current with technological advancements. This initiative will undoubtedly contribute to their future career growth and industry readiness.

Report Prepared by: Darshan Kapadia

Signature of Head of Department

Date: Friday, 04 October 2024