



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

Uka Tarsadia University

Department of Mechanical, Automobile, and Mechatronics Engineering, C G Patel Institute of Technology

Report on One-day Workshop on “Industrial Automation”

Date	Oct 15, 2024
Venue	BoschCOE, Maya Tarsadia Industrial Automation Research and Development Centre, CGPIT
Time	9:00 AM
Total Number of Participants	20 students of B.E Mechanical Engg., CKPCET, Surat 19 students of Diploma Auto., BVPIT, Umrakh
Name of Expert	BOSCH Team
Event Coordinator	Mr. Jayeshkumar Parekh
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.	Time	Description	Content
1	09:00-09:30 am	Breakfast	
2	09:30-11:00 am	Introduction to hydraulics	Theory+Hands on
3	11:00-12:15 pm	Introduction to Sensor & PLC	Theory+Hands on
4	12:15-01:00 pm	Lunch	
5	01:00-02:15 pm	Introduction to Pneumatics	Theory+Hands on
6	02:15-02:45 pm	Felicitation	Certi. Distribution

List of Participants:

CKPCET:

SR. NO.	ENROLLMENT NO.	NAME OF STUDENT	College
1	210090119005	GABANI RAJ ARVINDBHAI	C.K. Pithawala College of Engg. & Technology, Surat
2	210090119007	GANDHI BHAVYA BHADRESHBHAI	C.K. Pithawala College of Engg. & Technology, Surat
3	210090119009	ARIWALA KRISH BHASKARBHAI	C.K. Pithawala College of Engg. & Technology, Surat
4	210090119019	SIPWALA HISHAMAHMED SHAKILAHMED	C.K. Pithawala College of Engg. & Technology, Surat
5	210090119020	RANDHAVA PRADEEPSINGH JAGTARSINGH	C.K. Pithawala College of Engg. & Technology, Surat
6	220093119003	BACHCHHAV PRATIKKUMAR YOGESHBHAI	C.K. Pithawala College of Engg. & Technology, Surat
7	220093119004	BHATT UTSAV MAYURKUMAR	C.K. Pithawala College of Engg. & Technology, Surat
8	220093119006	DIPEN PANCHAL	C.K. Pithawala College of Engg. & Technology, Surat
9	220093119008	HARSH NITINKUMAR PANCHAL	C.K. Pithawala College of Engg. & Technology, Surat
10	220093119011	LIGHTWALA AMMAR ZAKIR	C.K. Pithawala College of Engg. & Technology, Surat
11	220093119024	RANA SUMIT SWAPANBHAI	C.K. Pithawala College of Engg. & Technology, Surat
12	220090119003	DALVI AMITBHAI DHANSUKHBHAI	C.K. Pithawala College of Engg. & Technology, Surat
13	220090119005	MORE DHRUV NITESH	C.K. Pithawala College of Engg. & Technology, Surat
14	220090119007	SHETH HITARTH APURVA	C.K. Pithawala College of Engg. & Technology, Surat
15	220090119009	VASAVA ANKITBHAI SOMABHAI	C.K. Pithawala College of Engg. & Technology, Surat
16	230093119009	DEVARSHI RAKSHESHBHAI TRIVEDI	C.K. Pithawala College of Engg. & Technology, Surat
17	230093119016	MALEK IZHAN SALIM	C.K. Pithawala College of Engg. & Technology, Surat
18	230093119019	NAIK JUGAL CHETAN	C.K. Pithawala College of Engg. & Technology, Surat
19	230093119023	PARMAR JAY DIVYESHBHAI	C.K. Pithawala College of Engg. & Technology, Surat
20	230093119038	YASH ROOPAWALA	C.K. Pithawala College of Engg. & Technology, Surat

Bhulabhai Vanmalibhai Patel Institute of Technology (Diploma Studies)
AUTOMOBILE ENGINEERING DEPARTMENT
(STUDENT LIST FOR VISIT)

NAME OF VISITING PLACE: BOSCH-RexRoth centre of excellence at Maya Tarsadia Industrial Automation Research and Development Center		
CLASS:- AUTO 2023/3		SEMESTER: 3RD
SR. NO.	ENROLLMENT NO.	NAME OF STUDENT
1	226560302014	MISHRA ANUJKUMAR AJAYBHAI
2	236560302001	AHIR ZEELKUMAR DINESHKUMAR
3	236560302002	CHAND SUHEL SAJID
4	236560302003	CHAUDHARI ARUNBHAI RAMUBHAI
5	236560302005	CHAUDHARI SACHINBHAI YOGESHBHAI
6	236560302006	DANTANI MANTHAN HARSHAD
7	236560302011	GAMIT TEJASKUMAR DINESHBHAI
8	236560302012	GAVALI VIVEKBHAI SAILESHBHAI
9	236560302015	KANOJIYA ABHISHEK OMPRAKASH
10	236560302020	PATEL TRUPALKUMAR VINODBHAI
11	236560302021	PRAJAPATI MITKUMAR JITENDRABHAI
12	236560302022	RATHOD BRIJESH CHETANBHAI
13	236560302023	RATHOD CHINTANKUMAR MAHESHBHAI
14	236560302025	SHAIKH MOHD BILAL MOHD AZAZ
15	236560302026	SHARMA PRIYANSHU RAMPRAVESH
16	236560302029	VALVI RANJITBHAI UKHALYABHAI
17	236560302030	VASAVA DHRUVKUMAR MAHESHBHAI
18	C2D - 01	SHAIKH TALHA SAIYADBHAI
19	C2D - 03	PARMAR PRINCE JAYANTIBHAI

Introduction:

The Department of Mechanical, Automobile, and Mechatronics Engineering at C G Patel Institute of Technology organized a one-day workshop on "Industrial Automation" at the prestigious BOSCH Centre of Excellence on October 16, 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 session focused on how industrial automation improves manufacturing efficiency and productivity. Experts emphasized the importance of BOSCH automation technologies in today's industries and explored new trends like smart factories and AI integration. Participants had interactive discussions, gaining a better understanding of automation's impact on 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 a great success, offering participants a blend of theory and practical, hands-on training. Led by expert faculties of UTU, the sessions gave in-depth insights into modern automation technologies and their real-world applications in manufacturing. Participants had the opportunity to work with advanced BOSCH equipment, acquiring skills directly applicable to current industry needs. The workshop deepened their understanding of industrial automation trends, preparing them to meet the changing demands of the industry. It also helped strengthen the connection between academic learning and industry practices.

Pictures:





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Session at Industrial Hydraulics Lab



Session at Industrial Pneumatics Lab



Session at PLC/Sensor Technology Lab



Group photo with Trainer, Head of Departments, and Director Sir



Felicitation of Student with Certificate

Conclusion:

The one-day "Industrial Automation" workshop at the BOSCH Centre of Excellence was a big success. Participants gained valuable knowledge and hands-on experience with advanced automation technologies. Expert-led sessions and discussions helped connect academic learning with real-world industry needs. Attendees left with a better understanding of how automation boosts productivity, efficiency, and innovation in manufacturing. The workshop gave them useful skills and highlighted the importance of staying up to date with technology, helping them prepare for future career growth.

A handwritten signature in black ink, appearing to read 'Jayeshkumar Parekh', is centered on a light blue background.

Report Prepared by:

Mr. Jayeshkumar Parekh
Centre In charge, BoschCOE

Head of Department:

Mr. Darshan Kapadia
Hod, Mech/Auto/Mecha