

**Chhotubhai Gopalbhai Patel Institute of Technology
Department of Mechanical and Mechatronics Engineering**

A Report of one day workshop

on

“Application of Automation in Manufacturing”

Title:		Application of Automation in Manufacturing	
Organizing Department:	Department of Mechanical and Mechatronics Engineering		
Chief Patron:	Dr. D. R. Shah, Provost UTU.		
Patron:	Dr. R. V. Patil, Director, CGPIT.		
Convener:	Dr. Chinmay Desai, Professor, Head of the Department, Department of Mechanical/Mechatronics Engineering, CGPIT		
Organizing Secretary:	Mr. Hardik C. Desai, Assistant Professor		
Organizing Committee:	Mr. Urvin Patel, Assistant Professor Mr. Moh. Husain Shaikh, Assistant Professor Mr. Krishna Patel, Assistant Professor Mrs. Palak Desai, Assistant Professor		
Institute:	C. G. Patel Institute of Technology, Bardoli.		
Targeted Audience:	Diploma final year students of A. Y. DADABHAI TECHNICAL INSTITUTE, KOSAMBA & Faculty members.		
Participation:	<u>Participating Students:</u> 68+03 (Student + Faculty)		
	Total:	71	
Date of Event:	14 th March 2020		
Resource Persons: (Certified Bosch-Rexroth Trainers)			
Mr. Keyur Chandubhai Patel Mr. Keyur Kantibhai Surati Mr. Hiren Arvindbhai Shah Mr. Jayeshkumar R. Parekh Mr. Jay Amrutbhai Patel		Mr. Manishkumar Keshavbhai Nakrani Mr. Jemish Vijaykumar Maisuria Mr. Mayank Rasiklal Kapadia Ms. Nita N. Patil Ms. Unnati Ashokbhai Mali Mr. Darshan Rajesh Vora	

Details of Workshop:

Automation is the technology by which a process or procedure is performed with minimal human assistance. Automation or automatic control is the use of various control systems for operating equipment such as machinery, processes in factories, boilers and heat treating ovens, switching on telephone networks, steering and stabilization of ships, aircraft and other applications and vehicles with minimal or reduced human intervention.

Automation has been achieved by various means including Mechanical, hydraulic, pneumatic, electrical, electronic devices and computers, usually in combination. Complicated systems, such as modern factories, airplanes and ships typically use all these combined techniques. The benefit of automation includes labor savings, savings in electricity costs, savings in material costs, and improvements to quality, accuracy, and precision.

SCHEDULE:

Sr. No.	Time	Session
1	8:30- 9:00 am	Registration & Tea-Breakfast
2	9:00- 9:15 am	Inaugural Function (Venue: J.D. Hall)
3	9:15-11:00 am	“Application of Automation in manufacturing” Industrial Hydraulics & Industrial Pneumatics by team of MAYA TARSADIA Industrial Automation Research and development Centre
4	11:00 am-11:45 am	Lunch
5	11:45 am -4:00 pm	Laboratory Session on Industrial Hydraulics & Industrial Pneumatics by team of MAYA TARSADIA Industrial Automation Research and development Centre
6	4:00-4:30 pm	Valedictory

Glimpse of the Workshop:



Inauguration of the workshop



Welcome speech



Welcome Speech



Expert and Hands on session (Industrial Hydraulics)



Expert and Hands on session (Pneumatics)



Expert and Hands on session (Sensors)



Expert and Hands on session (PLC)



Expert and Hands on session (Mechatronics)



Valedictory & Feedback Session

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