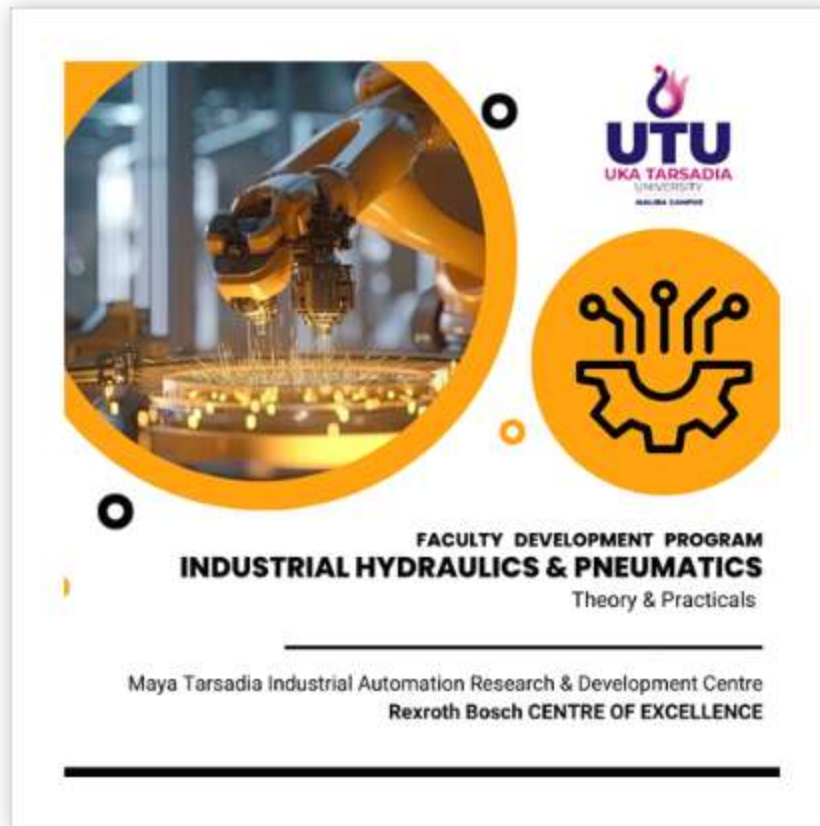


FACULTY DEVELOPMENT PROGRAM



“INDUSTRIAL HYDRAULICS & PNEUMATICS”

C G PATEL INSTITUTE OF TECHNOLOGY

November 12-15, 2024 | 14:00-16:15 pm | BOSCH COE, Maya Tarsadia Industrial Automation Research & Development Center

1. Title of the Activity:

Faculty Development Program: Industrial Hydraulics & Pneumatics

Dates and Time: 12th to 15th November 2024, 2:00 PM to 4:15 PM

Venue: Bosch - Centre of Excellence, Maya Tarsadia Industrial Automation Research & Development Center

2. Participation and Organizing Committee/Department

The program was organized by C.G. Patel Institute of Technology in association with Rexroth Bosch India Pvt. Ltd. at BoschCOE, Maya Tarsadia Industrial Automation Research & Development Center and sponsored by Uka Tarsadia University, Bardoli. •

Attendees: Degree and diploma faculty from Mechanical, Automobile, Mechatronics, Electrical, Electronics & communication, ICT & Civil engineering department from C G Patel Institute of Technology, Tarsadi and Diwaliba Polytechnic, Mahua.

3. Purpose of the activity:

This Faculty Development Program (FDP) on Industrial Hydraulics & Pneumatics aimed to equip faculty members with the latest knowledge and practical skills in the field of hydraulic and pneumatic systems. Participants gained a comprehensive understanding of the fundamental principles, components, and applications of these systems. Through a combination of theoretical sessions and hands-on workshops, participants were able to enhance their teaching and research capabilities, and bridge the gap between academia and industry.

4. Activity Details:

a. **Description:** Topics Covered:

- Fundamentals and Applications of Industrial Hydraulics and Pneumatics
- Practical Sessions on Hydraulic and Pneumatic Systems

Rexroth Bosch certified trainers Mr. Jayeshkumar R. Parekh & Dr. Hiren Shah delivered insightful lectures on various topics, including: Fundamentals of Fluid Power, Hydraulic and Pneumatic Components and Systems, Circuit Design and Analysis, System Troubleshooting and Maintenance, Latest Trends and Technologies

Hands-on Sessions: Participants got the opportunity to work on state-of-the-art equipment and conducted practical exercises, such as: Assembling and disassembling hydraulic and pneumatic circuits, troubleshooting common system faults, Operating hydraulic and pneumatic systems

b. **Participants:** Total 22

Degree and diploma faculty from Mechanical, Automobile, Mechatronics, Electrical, Electronics & communication, ICT & Civil engineering department from C G Patel Institute of Technology, Tarsadi and Diwaliba Polytechnic, Mahua.

5. Outcomes Achieved:

a. Qualitative:

- A solid foundation in the principles of fluid power and its applications.
- Better understanding of hydraulic and pneumatic components and systems.
- Enhanced practical skills in troubleshooting, maintenance, and operation of hydraulic and pneumatic systems.

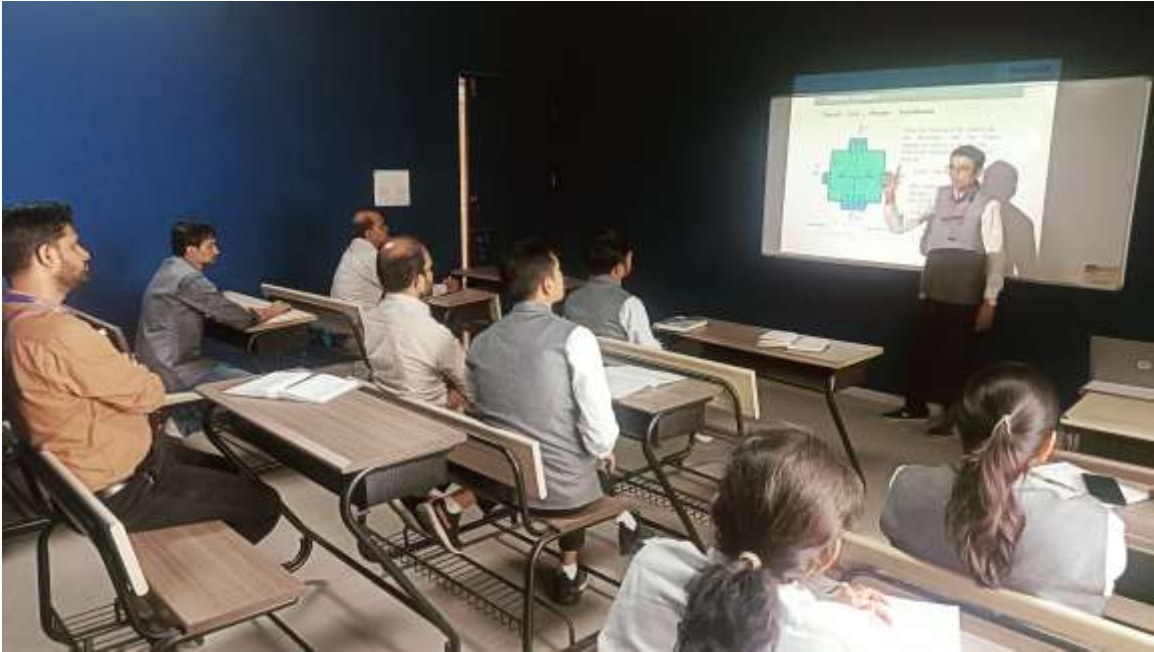
6. Feedback and Reflections:

- Student Feedback:** A separate sheet is attached herewith of online feedback.
- Reflections from Organizers:** Next phase with electro hydraulics/ pneumatics and PLC should be organized also.

7. Evidence of Success:



1st session about hydraulics



Lecture session on hydraulics



1st day Participants



Day 1 Hands on session



Day 1 Hands on session



Day 1 Hands on session



Day 1 Hands on session



Day 2 Hands on session



Day 2 Hands on session



Day 2 Hands on session



Day 2 Hands on session



Day 3 Pneumatics lecture



Day 3 Pneumatics lecture



Day 3 Hands on session



Day 3 Hands on session



Day 4 Hands on session



Day 4 Hands on session



Day 4 Hands on session



Day 4 Hands on session



Participants

સંદેશ વિશેષ

બારડોલીની સી.જી.પી.આઈ.ડી.માં ફેકલ્ટી ડેવલપમેન્ટ પ્રોગ્રામ યોજાયો

બારડોલી : બારડોલીની સી.જી.પટેલ ઈન્સ્ટિટ્યૂટ ઓફ ટેકનોલોજી, ઉકા તરસડિયા યુનિવર્સિટી દ્વારા રેક્રોઇ બોશ ઈન્ડિયા પ્રાઇવેટ લિમિટેડ સાથે સહયોગથી ફેકલ્ટી ડેવલપમેન્ટ પ્રોગ્રામ ઈન્ડસ્ટ્રિયલ હાઈડ્રોલિક્સ અને ન્યુમેટિક્સ સંબંધિત યોજાયો હતો. આ કાર્યક્રમ બોશ-સેન્ટર ઓફ એક્સલન્સ, માયા તરસડિયા ઈન્ડસ્ટ્રિયલ ઓટોમેશન રિસર્ચ એન્ડ ડેવલપમેન્ટ સેન્ટર ખાતે યોજાયો હતો. રેક્રોઇ બોશ સર્ટિફાઇડ ટ્રેનર્સ પ્રો. જયેશ પારેખ અને ડો. હિરેન શાહ દ્વારા હાઈડ્રોલિક અને ન્યુમેટિક સિસ્ટમ્સ પર પ્રાયોગિક સત્રો દ્વારા તાલીમ આપવામાં આવી હતી. જેમાં સી.જી.પી.આઈ.ટી.ના ૧૫ અને દિવાળીખા પોલિટેકનિક, મહુવાની ૭ ફેકલ્ટીએ ભાગ લીધો હતો.

Instagram

<https://www.instagram.com/reel/DCIG3tsiqe3/?igsh=MW13a3oxYmozdXd2Yg==>

News about FDP in Sandesh newspaper

8. Supporting Documents

- Encl: 1. Attendance sheet
2. Feedback report.

9. Expenditure:

Certificate Printing: 154.00INR

**Report Prepared by
Mr. Jayeshkumar Parekh
In charge BoschCOE**

**Head of Department
Mr. Darshan Kapadia
Mech/Auto/Mecha Dept.
CGPIT**

**Director
CGPIT**

FACULTY DEVELOPMENT PROGRAM
for
CGPIT & Diwaliba Faculty
on
INDUSTRIAL HYDRAULICS & PNEUMATICS

Maya Tarsadia Industrial Automation Research and Development Centre(BOSCHCOE Lab)
From 12/11/2024 to 15/11/2024, 02:00-04:15pm

Attendance sheet

S.N.	Name	Designation	Dept.	College	12/11/2024	13/11/2024	14/11/2024	15/11/2024
1	Chintan Desai	Asst. Prof.	EC/ICT/EE	CGPIT	CHD	CHD	CHD	CHD
2	Nupur Pathak	Asst. Prof.	EC/ICT/EE	CGPIT	Ab	CGPIT	CGPIT	CGPIT
3	Hinal G Surati	Asst. Prof.	EC/ICT/EE	CGPIT	CGPIT	CGPIT	CGPIT	CGPIT
4	Snehal Patel	Asst. Prof.	EC/ICT/EE	CGPIT	CGPIT	CGPIT	CGPIT	CGPIT
5	Jogesh Chaudhari	Asst. Prof.	EC/ICT/EE	CGPIT	CGPIT	CGPIT	CGPIT	CGPIT
6	Hiral Shah	Lecturer	EC/ICT/EE	CGPIT	CGPIT	CGPIT	CGPIT	CGPIT
7	Sanjana Parmar	Lecturer	EC/ICT/EE	CGPIT	CGPIT	CGPIT	CGPIT	CGPIT
8	Purvang R. Chauhan	Lecturer	EC/ICT/EE	CGPIT	CGPIT	CGPIT	CGPIT	CGPIT
9	Dr. Parash B. Gujarati	Asst. Prof.	Mech/Mecha/Auto	CGPIT	CGPIT	CGPIT	CGPIT	CGPIT
10	Palak H Desai	Asst. Prof.	Mech/Mecha/Auto	CGPIT	CGPIT	CGPIT	CGPIT	CGPIT
11	Mary Florence	Asst. Prof.	Mech/Mecha/Auto	CGPIT	CGPIT	CGPIT	CGPIT	CGPIT
12	Jignesh M Sohaliya	Asst. Prof.	Mech/Mecha/Auto	CGPIT	CGPIT	CGPIT	CGPIT	CGPIT
13	Mohammad Hussain Shaikh	Asst. Prof.	Mech/Mecha/Auto	CGPIT	CGPIT	CGPIT	CGPIT	CGPIT
14	Haresh R Ghoniya	Asst. Prof.	Mech/Mecha/Auto	CGPIT	CGPIT	CGPIT	CGPIT	CGPIT
15	Naitikkumar B Patel	Asst. Prof.	Mech/Mecha/Auto	CGPIT	CGPIT	CGPIT	CGPIT	CGPIT
16	Parth Parmar	Asst. Prof.	Mech/Mecha/Auto	CGPIT	CGPIT	CGPIT	CGPIT	CGPIT
17	Naitikkumar D. Patel	Asst. Prof.	Mech/Mecha/Auto	CGPIT	CGPIT	CGPIT	CGPIT	CGPIT
18	Mr. Gaurav R. Mistry	Asst. Prof.	Mechanical Engg.	Diwaliba	Diwaliba	Diwaliba	Diwaliba	Diwaliba
19	Mr. Jenish P. Modi	Asst. Prof.	Mechanical Engg.	Diwaliba	Diwaliba	Diwaliba	Diwaliba	Diwaliba
20	Mr. Dhensa Parvez F.	Asst. Prof.	Mechanical Engg.	Diwaliba	Diwaliba	Diwaliba	Diwaliba	Diwaliba
21	Ms. Bhavini Chaudhari		Electrical Engg.	Diwaliba	Diwaliba	Diwaliba	Diwaliba	Diwaliba
22	Mr. NarvatSinh Patel		Electrical Engg.	Diwaliba	Diwaliba	Diwaliba	Diwaliba	Diwaliba
23	Ms. Pooja Rajbaraiya		Electrical Engg.	Diwaliba	Diwaliba	Diwaliba	Diwaliba	Diwaliba



1. Attendance Sheet

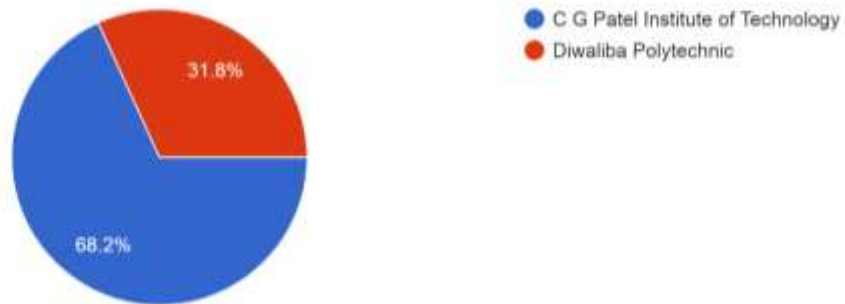
2. Feedback on Faculty Development Program (FDP) : "Industrial Hydraulics & Pneumatics,"

Audience:

- Assistant Professor: 16
- Lecturer: 06
- Total: 22

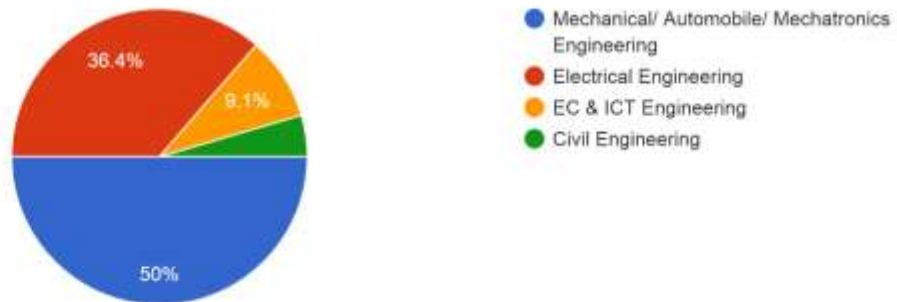
Institute

22 responses



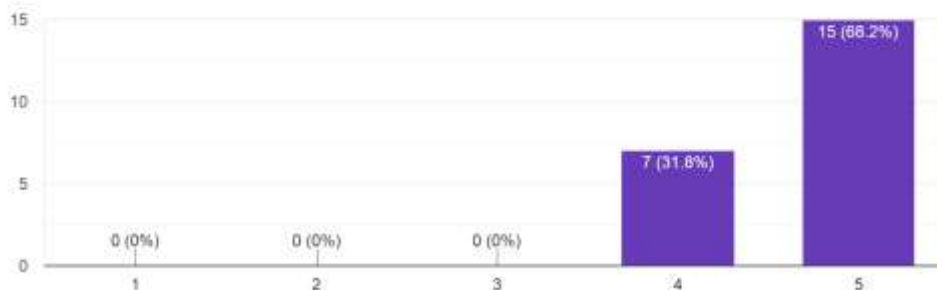
Department

22 responses



To what extent did the FDP enhance your knowledge and skills in industrial hydraulics and pneumatics?

22 responses



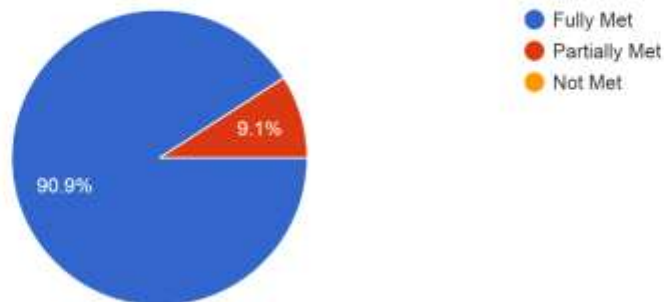
Were the practical sessions informative and helpful?

22 responses



To what extent did the FDP meet your expectations?

22 responses



Did the FDP provide adequate opportunities for hands-on experience?

22 responses

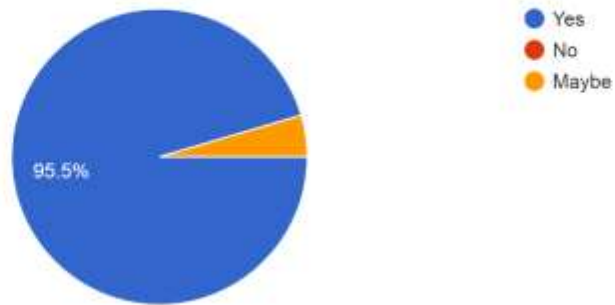


What specific aspects of the FDP could be improved?

- Increase the duration and frequency of practical sessions.

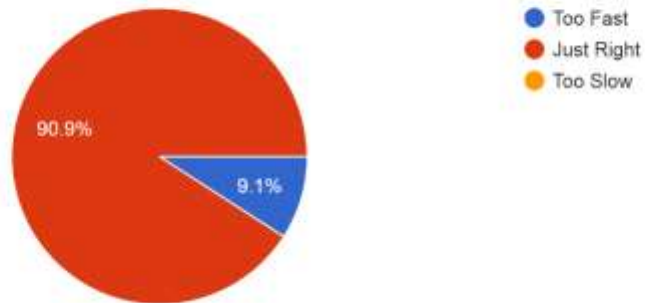
Did the FDP inspire you to further explore the field of hydraulics and pneumatics?

22 responses



How would you rate the pace of the course?

22 responses



Overall, how satisfied were you with the FDP?

22 responses

