



# Virtual Training on Mechatronics (Industry 4.0)

In Association with BOSCH Rexroth & CGU

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# About the Program

By Skyy Rider



The Virtual training on Mechatronics offered by Skyy Rider (2 weeks Program) designed in association Bosch Rexroth and CGU, Odisha. Out of our huge experience in Mechatronics domain. The Mechatronics program designed by us will give students a clear basic understanding of the concepts and knowledge and to work in various projects which help them empower to get into company directly.

Guest sessions will be taken by Mechatronics experts from the industry. This course is going to give a great experience of learning to all the students.

**Learning Methodology:** Live sessions daily with recorded videos after session, Virtual Practical sessions, Project along with training

**Program Type:** Virtual Internship with project

**Industry partner:** BOSCH REXROTH

**Duration:** 2 Weeks

**Certificate:** BOSCH REXROTH & Skyy Rider



## OVERVIEW

Planning, programming, commissioning, operation and troubleshooting of Mechatronics systems, are taught at various levels of complexity:

- with innovative technology
- with systematic use of industrial components
- In close cooperation with market leaders in automation

## PARTICIPANT PROFILE

- Operation, Maintenance, Assembly and Planning Personnel Designers.
- Engineering Students.





# 2

## Learning Targets

And Take Aways



# LEARNING TARGETS



Differentiate between the different types of Mechatronic system.



Test basic Mechatronics circuits



Identify Different Operations and Components



Troubleshoot basic Mechatronics systems.

# TAKE AWAYS



> Learn from considerably fundamentals of Mechatronics.



> Learn Industry 4.0 Technology and become industry ready.



> Live sessions, Virtual Practical & Project execution.



> Complete live classes & doubt clearings with our experts.



> Lifetime technical assistance from Skyy Rider Institution.



## PREREQUISITES

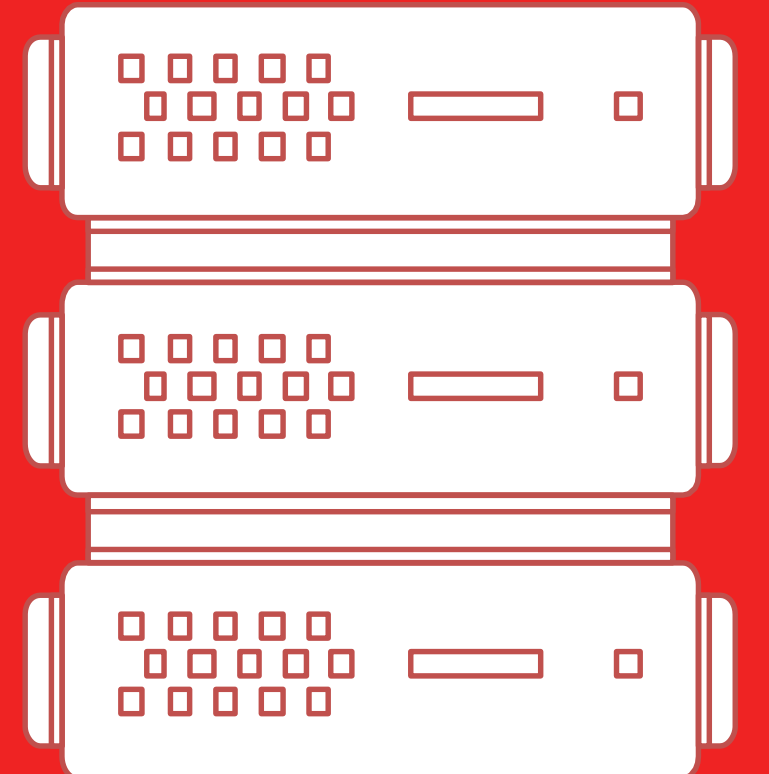
- Basic knowledge on PLC programming.
- Basic knowledge on Electro-Pneumatic
- Communication Skills in English.

## TEACHING & LEARNING MEDIA

- Multimedia Presentation
- Cut Section & Transparent models
- Sample units and Power units

## EVALUATION

- Online base Theory & Practical Exam



## Learning Targets



# B

## Detailed Curriculum

For 2 Weeks

SL	DAY	DESCRIPTION
1	DAY 1	Course objective, Introduction to Mechatronics, History & Architecture, Components of Mechatronics system.
2	DAY 2	Concept of relay, switches & sensors, Circuit Simulation using NO & NC contacts
3	DAY 3	Concept of Latching & interlocking using relay, switches & sensors, Circuit Simulation.
4	DAY 4	Rexroth L20 PLC Overview, Indra works Engineering V 12.
5	DAY 5	NO & NC concept in PLC & Programming of logic circuits, memory bit & different data types in PLC
6	DAY 6	Visualization & concept of SCADA.
7	DAY 7	Introduction to electro pneumatics and its components.
8	DAY 8	Simulations on different types of valves used in Mechatronics system design.
9	DAY 9	Circuit simulation of Electro-Pneumatic based sequential task based on Mechatronics system design.
10	DAY 10	Timer, counter and comparator in PLC & Programming of Sequential task
11	DAY 11	Sequential Function Chart & its use in complex programming.
12	DAY 12	Introduction & Programming of control panel & conveyor unit of Magazine station in Rexroth Mechatronics kit.



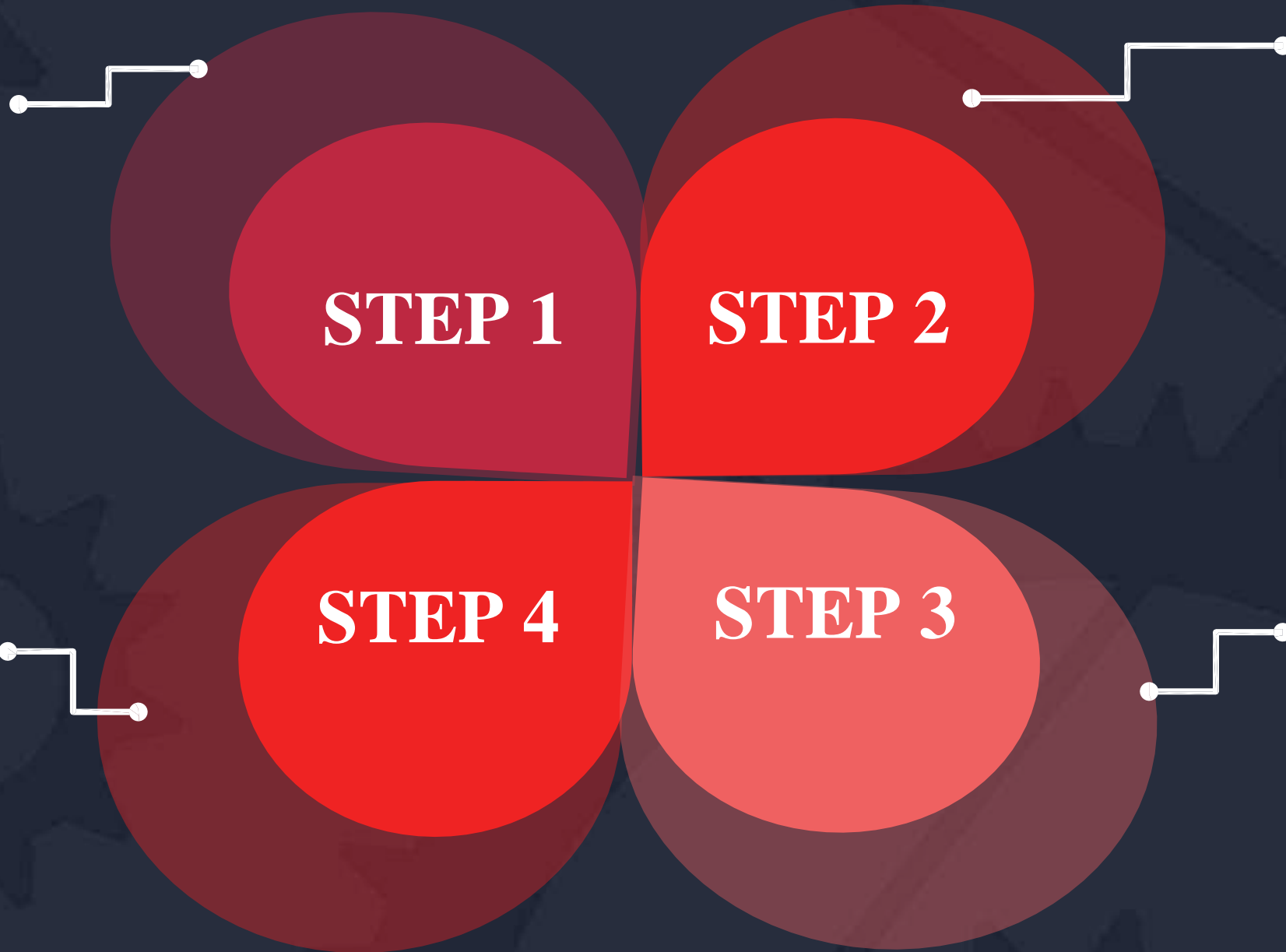
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# Admission Process

And Pricings

# 4 SIMPLE STEPS FOR REGISTRATION

Pay the  
Registration  
fees in the  
website



After payment fill the  
students registration  
form and provide all  
your information.

Happy Learning  
Experience!

You will receive an  
email confirmation and  
agenda of program will  
be briefed you.

**Admission  
Process**

# NOTE

- All the classes will be conducted online and the sessions will be taken live by experienced Trainers.
- Every student will get need based one to one interaction with instructors to clarify their Doubts.
- Students must pay the full amount to get admission for any of the programs.



**Admission  
Process**



# CERTIFICATE

- Virtual Internship Certificate will be provided by BOSCH Rexroth and CGU.
- Project Certificate will be provided by Skyy Rider.
- Top performers or students having leadership quality will be given Letter of recommendation based on their requirement.

**Admission  
Process**



# JOIN NOW, THANK YOU !



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