



CADMECH

CADMECH- SMART VR

Experience Lab



Details of VR Content

VR Experience Application Modules:

(DOES NOT REQUIRES THE PERSONEL COMPUTER OR SETUP)

Modules is compatible with Meta Quest 3 VR headset. List of modules is given below:

Module Topic	Length of Experience
1 Basic Hydraulic Experiments	15-20Mins
2 Electro hydraulic Experiments	15-20Mins
3 PLC Hydraulic experiments	15-20Mins
4 Basic Pneumatic Experiments	15-20Mins
5 Electro Pneumatic Experiments	15-20Mins
6 PLC Pneumatic Experiments	15-20Mins
7 Compressor Experiments	15-20Mins
8 Smart lab	15-20Mins
9 Virtual reality modules showing working, Connecting, disconnecting,	
10 Virtual Reality modules for experiments listed in annexure 1	Approx. 10 min each or as required
11 Diploma level projects for Mechanical, Robotics and Mechatronics (Guided Tour with Keynotes)	Approx. 4 min each or as desirable



Total Experiments

(Hydraulic Trainer & Pneumatic) done through VR is more than 35 Experiments.

Features of Virtual Reality in Hydraulic/Pneumatic Systems/Smart lab:

1. VR Headset with two joy sticks gives Virtual Environment of Hydraulic/Pneumatic System.
2. Accessibility of doing all the hydraulic/pneumatic Experiments virtually by doing pipes & electrical connections along with PLC unit.
3. All hydraulic/pneumatic Experiments can be run virtually similar to simulation in virtual world.
4. List of Experiments & soft buttons to click, view all the experiment details. Can be seen on screen
5. Detailed description of each & every hydraulic/pneumatic component can be seen virtually.



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