



P12- The Industrial Process Data Analysis Manufacturing System



- Basic of Data Science for The Industrial
- Decision Support System
- Data Mining Technologies and Applications
- Manufacturing Information System
- Expert System
- Knowledge Management

Location – the equipment will be installed at the laboratory room

Dimension
8x9 meters

The room shown below is the place that will be conducting those classes related to the use of the equipment

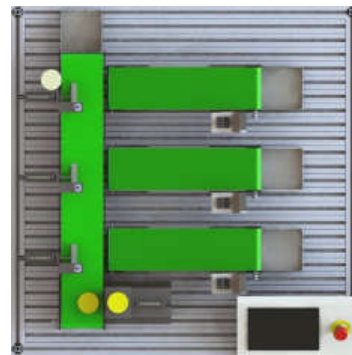


This laboratory room is used mainly for the experimentation. (Mostly practical sessions). The whole building has been provided to all science disciplines however IT and Computer science has its own allocation, building no.26th floor 4th



Practice set to develop programming, control and display skills over the Internet. (IoT)

With an Automated Controlled Sorting Conveyor Simulation System



1. An automated controlled **sorting conveyor simulation system**

- The motor system of the **inverter** rated does not exceed 0.4kw.

DC Motor 24VDC 3 sets, the system as follows

- Motor system of a DC motor for Load: Steel
- Motor system of a DC motor for Load: Aluminum
- Motor system of a DC motor for Load: Plastic
- Cylinder pushing **system Pneumatic 4 sets** Ready to install air tanks



Layout– How are you going to implement your concept?

The unit from dealer is meant to connect to PCLnext. The communication should be RJ45 to issue a command with a web interface. Once it is properly installed our cloud platforms can receive data fire from the device.

Describe (graphically, schematically) the ideal setup of your concept, possibly including connections, pin usage and technical details.



Coding for instructions via This interface

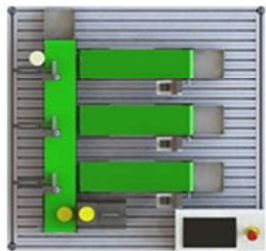




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Conveyor & pneumatic



AC Motor (Speed)



Inverter

IP camera



Raspberry PI



Cloud

Dashboard & Report

PLCNext



Ethernet

IXON router



Simulation



Ethernet & TCP/IP

Digital
Input



Sensor

HMI

