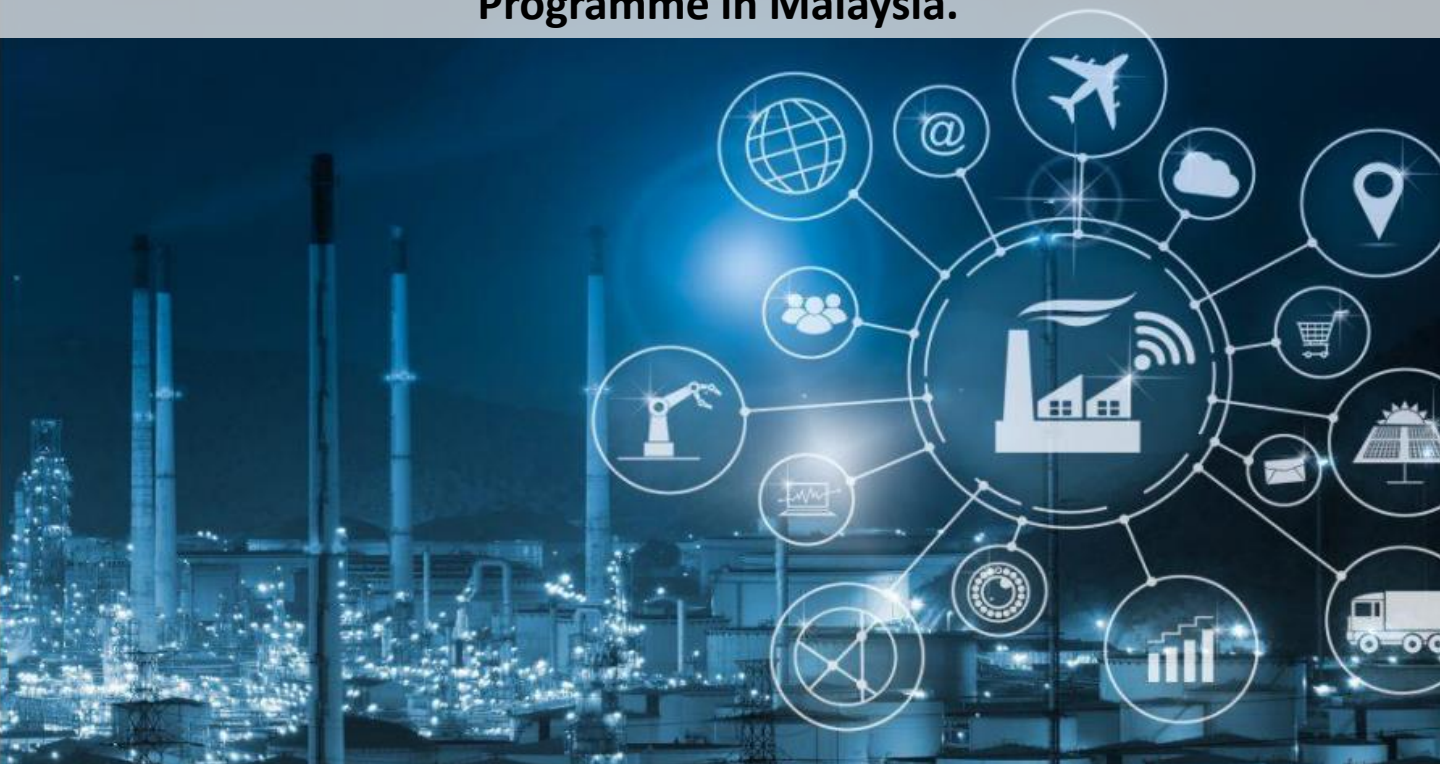


This programme is designed to train the learners with 4IR digital technologies knowledge and vocational skills to support the digital transformation in the manufacturing industry.

The FIRST Diploma in Digitalization (Manufacturing Automation) Programme in Malaysia.



Programme Learning Outcomes:

- Install the field and control devices for machine and process digitization
- Connect the stand-alone machines and processes into the network
- Establish data communication with the operation systems
- Build the operations system and dashboards for process monitoring
- Data analytics and intelligence using Python and Ladder programming
- Build the data warehouse for asset data storage; and
- Setup network connection to exchange and archiving of data

Accredited by



Programme Details:

Duration: 2 years include 6 months of internship

Total Modules: 16 include 1 capstone project

Entry Requirement*:

- Malaysian Citizen
- SPM / STPM / UEC / O-LEVEL or other equivalent Level (Must pass in English & Mathematics subjects)

*Terms and Conditions Apply



www.vtar.edu.my



03-4149 8211
010-2257 831 / 832



VTAR
Institute



VTAR
College



Internship
6 months

Module 16
Industry-Based
Capstone Project



Module 15
Entrepreneurship
Mindset

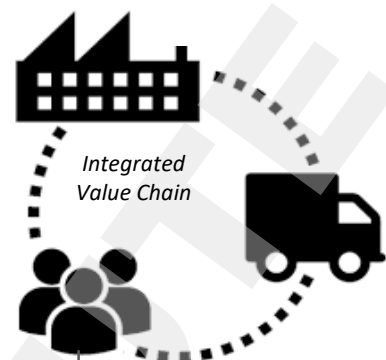


Assets

Module 13
Digitalization
Project Planning
and Execution



Module 12
Create Systems
for Operations
Management



Integrated
Value Chain

Module 14
Integrated Value
Chain Management



PROCESS
INTELLIGENCE

Business Dashboard



Module 11
Real Time Process
Intelligence and
Visualization



Dataset

Enterprise
Asset Space



Module 10
Wireless to
Wired Internet
Communication

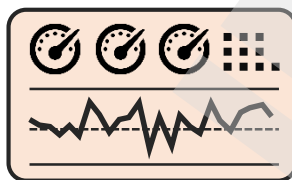
Router

TOP FLOOR

SHOP FLOOR

Module 09
Machines Data
Acquisition and
Control

SCADA



Manufacturing Dashboard

Module 04
Data Analytics and
Visualization with
Python



Program

Module 03
Practical Python
for Engineers
and Technicians

Module 05
Sensor Applications in
Industrial Automation



RFID

**Production
Line**



Control Panel

Maintenance



ELECTRICAL SAFETY
IN THE WORKPLACE



Module 08
Industrial Ethernet for
Network Communication

Switch



Modbus TCP

Module 07
PLC Programming
for Industrial
Automation (2)

Master
Control



Modbus RTU

Module 06
PLC Programming
for Industrial
Automation (1)

Module 02
Industrial Control
Panel Design and
Installation

Module 01
Industrial Safety,
Tools and Test
Instruments