



Diploma in Industrial Automation (Mechatronic)

MC-091-2:2016/MC-091-3:2016/MC-091-4:2016

OVERVIEW

Mechatronics is an area of great potential and is very important in industry. It combines mechanical engineering with electronic engineering, computer technology and control to produce an integrated system.

Diploma in Mechatronics Technology programme is designed to cater to semi-skilled labor is growing in this area. This programme covers the theory and practice industrial training to prepare students to face the world of work. The teaching and learning methods are that systematically aligned produce graduates who are capable, creative and able to solve problems.

The level of each course starts from the basic level up to high while the laboratory work and workshops. The curriculum structure that is provided will enable students to apply this knowledge in performing their projects for the final semester. Students are required to undergo industrial training for three months during the last semester in order to be exposed to the current technology as well as experience the real working environment. Co-curricular activities are also included as an effort to develop with a good personality and responsibility.

The teaching and learning strategy is a combination of lectures, workshops, practical work, case studies, group discussions, presentations, assignments and industrial training. In the final semester, students are also given courses for the projects which will be implemented in groups in order to provide opportunities for students to apply what they have learnt. They will select and carry out a case study of innovation in the design or structure as well as learn skills in managing a project team environment. Students competency assessment will be based on the results of the examination and continuous assessment for all assignments given during the study.

PATHWAY

Employment - Local

Diploma in Industrial Automation (Mechatronic)

ENTRY REQUIREMENTS

SPM
(Pass in Bahasa Melayu or English)



* Contents are subject to change

College MCS

DETAILS

Duration of Studies

- 2 1/2 Years + 3 months OJT

Total Number of Credit Hours

- 3000 Hours

Mode of Studies

- Full Time

Assessment

- Practical : 70%
- Theory : 30%

Program Delivery

- Theory - Workshop - Practical Work - Presentations - Assignments - Group Discussion

Career Opportunities

- Manufacturing Technician
- Assistant Supervisor
- Supervisor
- PLC Programme
- Instructor
- Assistan Engineer
- To obtain higher level in education
- Machine Operator / Supervisor
- Automation Maintenance

Subject

Level 2

Industrial Automation Engineering Drawing
Industrial Automation Fundamental Control Programming
Industrial Automation Fabrication
Industrial Automation Sub - Assembly
Industrial Automation Systems Servicing

Level 3

Industrial Automation Computer Aided Design (Cad) Assembly Drawing
Industrial Automation Mechanical Systems Assembling
Industrial Automation Electrical & Electronic Systems Assembling
Industrial Automation System Calibration
Industrial Automation Systems Maintenance
Industrial Automation Control System Programming
Industrial Automation Engineering Systems Support Supervision

Level 4

Industrial Automation Systems Design
Industrial Automation Systems Integration
Industrial Automation Systems Installation And Commissioning
Industrial Automation Systems Maintenance Coordination
Industrial Automation Project Coordination