

PREPARING YOU FOR THE WORLD!

YOUR
ROUTE TO AN
HONOURS DEGREE

DISCOVER YOUR POTENTIAL
&
ACHIEVE SUCCESS



DIPLOMA

in MECHATRONICS & ROBOTICS ENGINEERING

(R2/523/4/0214) (A4161)/JPT/BPP(K)1000-600/P713 Jld 6(9)

PROGRAM DESCRIPTION

In recent years, the integration of mechanical, electronics & computer engineering gave rise to Mechatronics Engineering. Cheaper and powerful electro - mechanical devices have contributed to the new Mechatronics Engineering technology eventually replacing labour intensive operations with mechanization and automation.

Mechatronics & Robotics (an emerging area of flexible automation) has become a global industry as a result of the need to evolve efficient manufacturing processes and technologies. Automation & technologies are inextricably linked.

The mechanical devices used in manufacturing are built with electronic systems, and computer technologies are used to control process to achieve automation. The core objective is to train students in the latest technologies and processes in the areas of design, control, manufacturing & the tools of integration.

This Diploma program is recognized by the Ministry of Higher Education (MoHE) and is approved by Malaysian Qualification Agency (MQA).

- Innovative delivery approaches to make your learning easy
- Smart partnership with major MNCs & unique project based learning approach
- Offering you unlimited career opportunities
- A qualification that gives you one of the highest rewarding career

Highly rewarding engineering position with reputed industries

B.Eng (Hons)
UK / Local / US /
Australian (1.5 - 2 years)

Diploma
(2 years 6 months)

SPM / 'O' Level
3 credits
including Maths &
any Science sub

Certificate in
Engineering /
SKM L3 & pass SPM
with 1 credit

Course Modules

- English Language
- Engineering Mathematics I
- Engineering Mathematics II
- Engineering Science
- Engineering Drawing
- Circuit Theory
- Electronics I
- Electronics II
- Electronics Engineering Lab I
- Bahasa Kebangsaan A / Thinking Skills
- Malaysian Studies 2 / BM Komunikasi 1
- Comparative Ethics II
- Power
- Digital Systems
- Control Systems Engineering
- Computer Systems Engineering
- Community Service & Co-Curriculum
- Design Project
- Artificial Intelligence for IIoT
- Electronics Engineering Lab II
- Electrical Engineering Principles
- Fluid Mechanics
- Fundamentals of IIoT
- Image Processing & Vision System
- Machine Design
- Management Techniques
- Programmable Logic Control & Pneumatics
- Strength of Materials
- Thermodynamics
- Workshop Practice

Elective I (choose one) : Visual C++ Programming OR
Programming in Python
Elective II (choose one) : Embedded Control with PIC OR
Raspberry Pi Programming & Applications
Elective III (choose one) : Robotics Technology OR
Industrial Automation

Note : Malaysian Students are required to take MQA compulsory subjects Malaysian studies, Moral Studies / Islamic Studies and Bahasa Kebangsaan (Exempted for credit holders of Bahasa Malaysia in SPM exam)

Duration / Entry Qualification

2½ years

SPM with min 3 Credits including Maths and Science Sub

Further Education

College assists in processing and obtaining admissions to the Bachelor degree in Engineering courses at various universities locally or abroad. Diploma holders are normally accepted into the final year or 3rd year of Bachelor degree program in various UK, US, Australian universities either locally or abroad.

Career Prospects

Graduates can work in design, research & development, production, maintenance, test or quality control departments which are highly rewarding and offer excellent growth opportunities. Major multinational industries conduct JOB INTERVIEW at the college & offer lucrative jobs to our Diploma holders.

Corporate Clientele : Agilent Technologies, Acer Technologies, Audio Philips, AMD, Intel Technology, Mattel, Motorola, Siemens, Unico Technology.. etc

STRADFORD INTERNATIONAL COLLEGE

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