

INTRODUCTION

The Diploma in Electronic Engineering (Computer) is designed to cover the current wide discipline of electronic engineering with the added specialization of electronics used in the field of computer technology. Graduates are forecast to serve in the field of computer technology and electronic engineering. The use of electronics in computer based equipment today requires skilled and trained technicians necessary for these new challenges. The Diploma in Electronic Engineering (Computer) of the Polytechnic's Ministry of Education Malaysia equips its graduates with the certified and recognized technical skills necessary in the area of specialization.

An electronic engineering diploma graduate of the Polytechnic's Ministry of Education Malaysia would have undergone a core curriculum consisting of courses in mathematics, fundamentals of electricity, electronics and solid state devices. Graduates of the electronic engineering (computer) diploma programme would have undergone specialized courses in computer architecture and organization microprocessor, database system, operating system, programming and computer system diagnosis and maintenance.

The 6 semester approach of The Diploma in Electronic Engineering (Computer) is designed to provide an electronic engineering diploma graduate with the possibility of articulating towards a career in the field of computer engineering or electronics engineering. This multidisciplinary field involves the application of the principles of engineering in solving problems in an electronic and computer based system. With the advent of computer hardware and software integration, more and more participation of technicians is being demanded in the field of computer technology. This has necessitated the birth of electronic technicians, who are able to grasp the essences of computerization with a solid background in the field of electronic engineering.

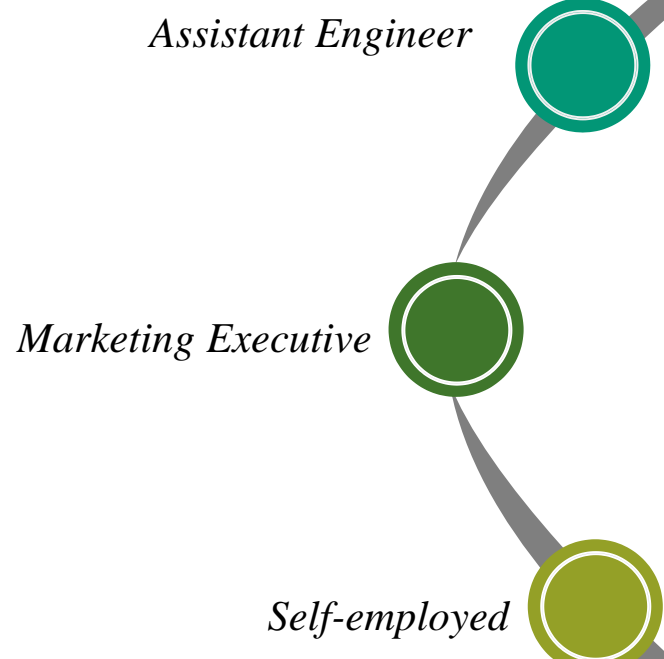
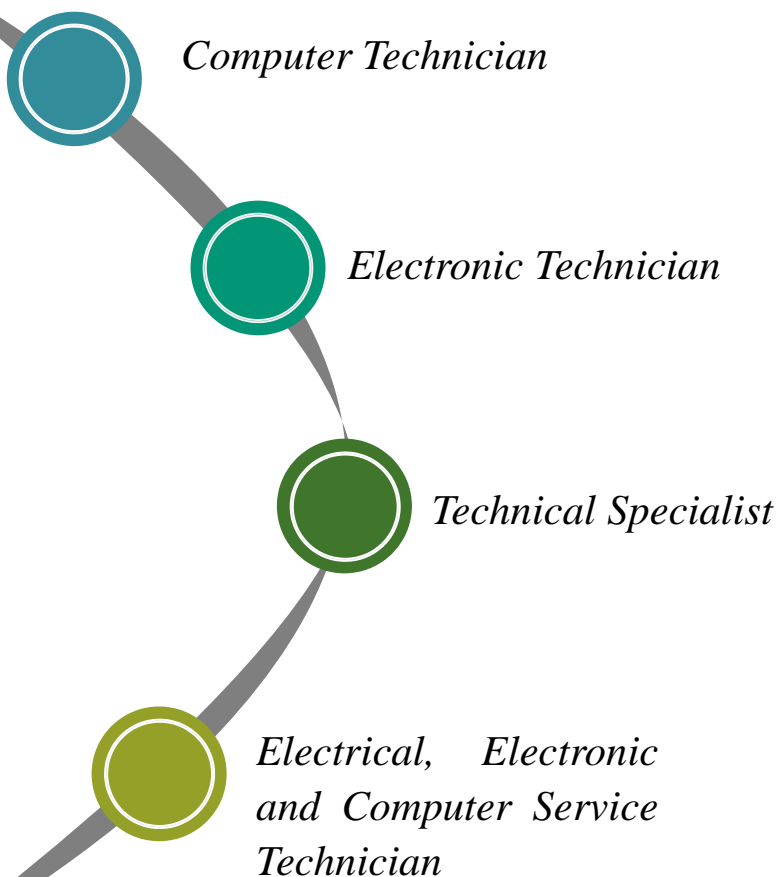
SYNOPSIS

The Diploma in Electronic Engineering (Computer) is designed to cover the current wide discipline of electronic engineering, with the added specialization of electronics used in the field of computer based technology. The broad-based electronic foundation of which includes power, telecommunication, control, instrumentation and computers provides versatility to the graduates, while emphasizing the area of specialization.

These graduates are forecast to serve in the field of computer technology. The use of electronics in computer based equipment today requires skilled and trained technicians necessary for these new challenges. The Diploma in Electronic Engineering (Computer) of the Polytechnic's Ministry of Education Malaysia equips its graduates with the certified and recognized technical skills necessary in the area of specialization.

JOB PROSPECT

This programme provides the knowledge and skills in electronic engineering with specialization in computer. The knowledge and skills that the students acquire from the programme will enable them to participate in the job market as:-



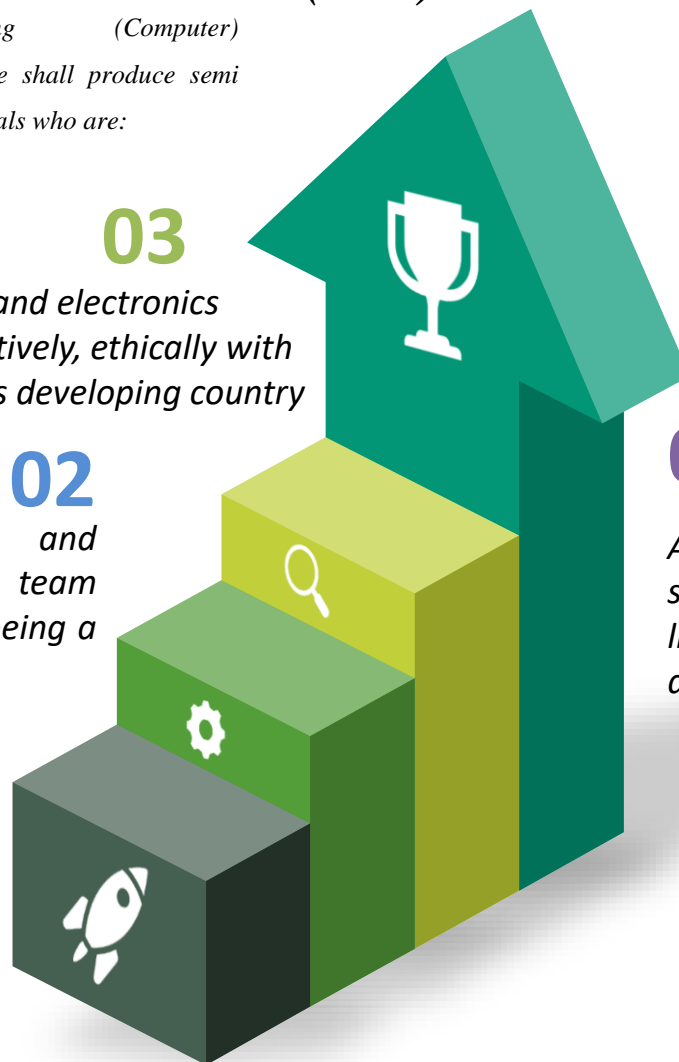
PROGRAMME EDUCATIONAL OBJECTIVES

The Diploma in Electronics Engineering (Computer) programme shall produce semi professionals who are:

03
Capable to solve computer and electronics problems innovatively, creatively, ethically with social responsibility towards developing country and community.

02
Effective in communication and contribute effectively as a team member with the capability of being a leader.

01
Knowledgeable and technically competent in electronics and computer disciplines and able to adapt themselves with new technological challenges in electronic and computer.



04
Able to demonstrate entrepreneurship skills and recognize the need of lifelong learning for successful career advancement.

01
Apply technical knowledge and social science / humanities knowledge to well defined electrical and electronic engineering problem and to the personality development of individual respectively.

02
Solve well-defined electrical and electronic engineering related problems systematically by applying critical thinking skill and using appropriate tools and techniques.

03
Analyze and investigate well-defined electrical and electronic engineering problems..

11
Function individually or in teams, effectively, with a capability to be a leader.

10
Demonstrate an understanding of professional ethics, responsibilities and norms of electrical and electronic engineering practices.

09
Demonstrate an awareness for entrepreneurship

08
Engage in independent acquisition of new knowledge and skill, and recognize the need for professional development and information management

07
Demonstrate awareness and consideration for societal, health, safety, legal and cultural issues and the consequent responsibilities, taking into account the need for sustainable development.



PROGRAMME LEARNING OUTCOMES (PLO)

Upon completion of the programme, graduates should be able to:

04
Design well defined engineering solutions for electrical and electronic engineering systems.

05
Demonstrate practical skill in utilizing modern electrical and electronic engineering tools and design packages.

06
Communicate effectively with the engineering community and the society at large.