

PROGRAMME AIM

◆ This programme believes that all individuals have potential to be a resourceful & adaptable technician to support the nation aspiration in providing engineering talent

VISION

To be the Leading-Edge TVET Institution

MISSION

- a. To provide wide access to quality and recognized TVET programmes
- b. To empower communities through lifelong learning
- c. To develop holistic, entrepreneurial and balanced graduates
- d. To capitalise on smart partnership with stakeholders

PROGRAMME EDUCATIONAL OBJECTIVES (PEO)

1

Practicing technician
in electrical
engineering related
field.

2

Contributing to
society with
professional ethic
and responsibilities



3

Engaging in enterprising
activities that apply
engineering knowledge and
technical skills

4

Engaging in activities
to enhance knowledge
for successful career
advancement



PROGRAMME LEARNING OUTCOMES (PLO)

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

- ◆ **PLO1:** apply knowledge of applied mathematics, applied science, engineering fundamentals and an engineering specialisation as specified in DK1 to DK4 respectively to wide practical procedures and practices
- ◆ **PLO2:** identify and analyse well-defined engineering problems reaching substantiated conclusions using codified methods of analysis specific to their field of activity (DK1 to DK4)
- ◆ **PLO3:** design solutions for well-defined technical problems and assist with the design of systems, components or processes to meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations (DK5)
- ◆ **PLO4:** conduct investigations of well-defined problems; locate and search relevant codes and catalogues, conduct standard tests and measurements

PROGRAMME LEARNING OUTCOMES (PLO) (CONT...)

- ◆ **PLO5:** apply appropriate techniques, resources, and modern engineering and IT tools to well-defined engineering problems, with an awareness of the limitations (DK6)
- ◆ **PLO6:** demonstrate knowledge of the societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to engineering technician practice and solutions to well-defined engineering problems (DK7)
- ◆ **PLO7:** understand and evaluate the sustainability and impact of engineering technician work in the solution of well-defined engineering problems in societal and environmental contexts (DK7)
- ◆ **PLO8:** understand and commit to professional ethics and responsibilities and norms of technician practice

PROGRAMME LEARNING OUTCOMES (PLO) (CONT...)

- ◆ **PLO9:** function effectively as an individual, and as a member in diverse technical teams
- ◆ **PLO10:** communicate effectively on well-defined engineering activities with the engineering community and with society at large, by being able to comprehend the work of others, document their own work, and give and receive clear instructions
- ◆ **PLO11:** demonstrate knowledge and understanding of engineering management principles and apply these to one's own work, as a member or leader in a technical team and to manage projects in multidisciplinary environments
- ◆ **PLO12:** recognise the need for, and have the ability to engage in independent updating in the context of specialised technical knowledge

◆ PLO VS ETAC PO (DEE & DEP)

	PLO	ETAC PO	Taxonomy
PLO1	Knowledge	PO1	cognitive
PLO2	Problem analysis	PO2	
PLO3	Design/ Development of Solution	PO3	
PLO4	Investigation	PO4	
PLO5	Modern Tool Usage	PO5	psychomotor
PLO6	The Engineer and Society	PO6	affective
PLO7	Environment and Sustainability	PO7	
PLO8	Ethics	PO8	
PLO9	Individual and Team Work	PO9	
PLO10	Communications	PO10	
PLO11	Project Management and Finance	PO11	
PLO12	Life Long Learning	PO12	



DEE & DEP

DEE: The Diploma in Electrical and Electronic Engineering programme

SYNOPSIS (DEE)

- ◆ The Diploma in Electrical and Electronic Engineering programme is designed to cover the broad discipline of **electrical and electronic engineering** which includes **electrical and electronic principles**, **computer fundamental and programming**, **computer aided design**, **semiconductor devices**, **communication systems**, **wiring installation**, **power system**, **electrical machine** and **programmable logic controller**. The green technology elements are also incorporate in the curriculum to provide **awareness** towards the importance of the **sustainable energy**.

JOB PROSPECT (DEE)

- ◆ This programme provides the knowledge and skills in electrical engineering that can be applied to a broad range of careers in most power generation provider and manufacturing industries.
- ◆ The knowledge and skills that the students acquire from the programme will enable them to participate in the job market as:
 - a. Electrical/Electronic Technician
 - b. Electrical Engineering Service Advisor
 - c. Technical Assistant
 - d. Electrical/Electronic Engineering Supervisor
 - e. Assistant Engineer

DEP:

**The Diploma in
Electronic Engineering
(Communication) Program**

SYNOPSIS (DEP)

- ◆ The Diploma in **Electronic Engineering (Communication)** covers broad discipline of electronics engineering, with **specialization in communication technology** which includes, **electrical and electronic fundamentals, computer fundamentals and programming, communication system fundamentals, semiconductor devices, and computer aided design**, while emphasizing the area of specialization. The **specialization courses** include **telecommunication network, fibre optic communication system, data communication and networking, wireless communication and microwave devices.**

JOB PROSPECT (DEP)



This programme provides the knowledge and skills in communication engineering that can be applied to a broad range of careers in most electronic communication field. The knowledge and skills that the students acquire from the programme will enable them to participate in the job market as:

- a. Assistant Engineer
- b. Assistant Radio Frequency Engineer
- c. Technical Executive
- d. Marketing Executive
- e. Technical Supervisor
- f. Assistant Technical Designer
- g. Assistant Network Engineer
- h. Assistant Network Administrator
- i. Assistant Drive Test Engineer
- j. Assistant Drive Test Analyser Engineer
- k. Network planner
- l. Electrical/Electronic Technician