Diploma Programmes
The National Engineering Technician Diploma (NETD) Programme

**Entry Requirements**

The curriculum for this UTT Diploma Programme is designed for candidates who possess one of the following:

- Passes in at least five (5) subjects at CXC (CSEC) General Proficiency (Grades I or II and from 1998, Grade III), which must include Mathematics, Physics, Chemistry and English.
- GCE O-Level or approved equivalents to include Mathematics, English, Chemistry and Physics, and any other subjects. Preference will be given to students possessing Grades I or II at this level.
- Candidates who have completed the UTT Pre-University Programme with more than a 50% average in ALL attempted subject areas.
- Students without these entry requirements will be given opportunity to enter the UTT Pre-University Programme for academic strengthening. This programme will also be available to the significant population of Pre-Technician/Craft students in Trinidad and Tobago and will allow for a seamless advance into tertiary education with the option to continue to any level of higher learning.

**Overall Objectives**

- To provide a seamless transition from Diploma to First Degree (e.g., BEng. or BSc.)
- To allow existing professionals and para-professionals re-entry into further tertiary education.
- To equip students with a sound academic foundation and help develop positive attitudes toward lifelong learning.
- To stimulate learning and motivate students to the practice of Engineering
- To create well-rounded technicians with a strong educational base and workplace experience geared toward certification.

**Structure of the Diploma Programme**

- The NETD Programme will be delivered over nine (9) semesters. The first six (6) semesters will be classroom-based and a total of approximately 120 Credits will be required for graduating.
- Higher-order learning elements such as application, analysis, synthesis, planning, and guided research will be integrated into the programme through PBL, S-L and integrated assignments.
- The last three (3) semesters of the programme are designed to monitor and assess predefined outcomes and skills necessary to Industry. These measurements will form the basis for Certification of graduates.

**Diploma Course Description**

The National Engineering Technician Diploma (NETD) course is designed to ensure progression into the UTT’s Bachelor of Applied Science and Bachelor of Engineering programmes. In preparation for this, all students follow common core courses in the first Semester; and programmes within each core discipline are designed in such a way as to give significant academic strengthening in the areas of Mathematics and Science. This concept will allow the student opportunity to become more confident in these areas.

**DESCRIPTION of PROGRAMMES**

**ELECTRICAL / ELECTRONIC ENGINEERING**

**Electrical / Electronics Engineering Technician Diploma:**

The National Technician’s Diploma in Electrical/Electronic Engineering is designed to equip individuals with the practical skills, knowledge and understanding required for success in current employment. It also provides for progression to future employment in a range of electrical/electronic occupations including design, installation, operation and maintenance of complex electrical/electronic engineering products and systems.

*The qualification enables progression to higher level, or to any one of UTT’s B.Sc. programmes.*
Overall Objectives

• Programme is designed for candidates who possess a strong educational base and workplace attitudes toward lifelong learning. To equip students with a sound academic foundation and help develop positive experience geared toward certification.

• Tertiary education.

• Students without these entry requirements will be given opportunity to give significant academic strengthening in areas of Mathematics and Science. This includes Mathematics, Physics, Chemistry (CSEC) General Proficiency (Grades I or II)

• Diploma to First Degree (e.g., BEng. or BSc.)

• To create well-rounded technicians with possession of Degrees I or II at this level.

• To provide a seamless transition from para-professionals re-entry into further that a 50% average in ALL attempted Electrical/Electronic, Energy Chemical Engineering

• Mechatronics

• Energy management and technology-related fields, or to any one of UTT’s B.Sc. programmes.

• The qualification enables progression to higher level programmes or to any one of UTT’s B.Sc. programmes.

Communications Engineering Technician Diploma:

This Programme is focused on preparing graduates for careers in the rapidly expanding field of Information and Communication Technologies or ICT. The programme answers the call from industry for graduates to be adequately trained in the areas of both voice and data. The theoretical and practical skills acquired will equip them to function in a wide range of areas including information systems installation, communications hardware maintenance, network installation and maintenance, computer system configuration, programming and systems sales and support, wireless communications and telephony.

The qualification enables progression to higher level, or to any one of UTT’s B.Sc. programmes.

MECHANICAL ENGINEERING

Mechanical Engineering Technician Diploma:

The National Diploma in Mechanical Engineering is designed to equip individuals with the practical skills, knowledge and understanding required for trained personnel within the mechanical design, maintenance and technical service areas of the engineering industry. The qualification enables progression to higher level, or to any one of UTT’s B.Sc. programmes.

Manufacturing Engineering Technician Diploma:

The National Diploma in Mechanical Engineering is designed to equip individuals with the practical skills, knowledge and understanding required for trained personnel within the mechanical design and manufacturing areas of the engineering industry. The qualification enables progression to higher level, or to any one of UTT’s B.Sc. programmes.

Automotive Engineering Technician Diploma:

The National Diploma in Automotive Engineering is designed to equip individuals with the practical skills, knowledge and understanding required for trained personnel for a range of vehicle operations and maintenance occupations, including auto-electric, heavy vehicle, and light vehicle. The qualification enables progression to higher qualifications or undergraduate degrees and professional occupations in motor vehicle management and technology-related fields, or to any one of UTT’s B.Sc. programmes.

Chemical Engineering Technician Diploma:

The National Technicians’ Diploma in Chemical Engineering is designed to equip individuals with the practical skills, knowledge and understanding required for a range of industries including the Chemical, Petrochemical, Petroleum, Fertilizer and Allied Industries. Focus will be placed on developing a sound understanding of Chemical Engineering fundamentals, Process Design Technology, Operations and Process Control, Safety and Environmental Engineering. The qualification enables progression to higher level, or to any one of UTT’s B.Sc. programmes.

Petroleum Engineering Technician Diploma:

This Programme is designed to meet the needs of the upstream petroleum industry. Graduates will be prepared to enter at the technician level once they have covered the relevant theoretical concepts. The Petroleum Engineering Diploma will focus on guiding students towards a sound understanding of drilling, production and reservoir engineering as well as environmental safety and process control engineering. Exposure to well log interpretation, preparation and presentation of technical reports and projects, as well as computer applications will also enhance student’s suitability for employment. The qualification enables progression to higher level, or to any one of UTT’s B.Sc. programmes.

CIVIL ENGINEERING

Civil Engineering Technician Diploma:

Graduates of this higher technician programme will have the ability to apply construction technologies and engineering to construction projects, use appropriate information technologies, and communicate effectively when working within a construction team. The programme is designed to equip individuals with the practical skills, knowledge and understanding required for a range of industries including, but not limited to, structural engineering, geotechniques, environmental engineering, construction/project management, quantity surveying, and engineering surveying. The qualification enables progression to higher level, or to any one of UTT’s B.Sc. programmes.

INFORMATION TECHNOLOGY

Computer Engineering Technician Diploma:

The Computer Engineering Programme focuses on preparing graduates for careers in the rapidly expanding Information and Technology field and provides trainees with the opportunity to study both the software and hardware aspects of Information Technology. It goes beyond programming to help develop the flexibility and problem-solving skills needed for understanding various user applications and for meeting the needs of a rapidly changing industry. The theoretical and practical skills acquired will ready the graduates to function in a wide range of interests within the computer engineering field including: information systems installation, computer hardware maintenance and configuration; local and wide area network installation and maintenance; computer system configuration, programming and system sales and support. The qualification enables progression to higher level, or to any one of UTT’s B.Sc. programmes.
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