

CAREER INFORMATION 2021

DIPLOMA IN ENGINEERING TECHNOLOGY IN CIVIL ENGINEERING (MIDLANDS)

DUT
DURBAN UNIVERSITY OF TECHNOLOGY
INVUVESI YASETHEKWINI YEZOBUKHEPHESE

FACULTY OF ENGINEERING & THE BUILT ENVIRONMENT

DEPARTMENT OF CIVIL ENGINEERING

01 JAN - 31 DEC 2021

NQF 6
SAQA ID: 99026

Diploma in Engineering Technology in Civil Engineering

Location: Indumiso Site, Midlands Campus (Pietermaritzburg)

Description of the Programme

Most Civil Engineering Technicians and Technologists are employed in industry in one of the two traditional areas, namely Building Industry or the Civil Engineering Industry, and may be involved in planning, designing or constructing. Within each of these areas, Technicians and Engineers may be employed either in Consulting offices, for a local authority or for a contractor. The Construction industry as a whole, plans, designs, constructs and maintains what is sometimes referred to as the built environment. This is not only houses, schools and multi-storey structures, but also roads, airports, tunnels, dams, water supplies, sewerage works, service reticulation, the list is endless.

In the traditional building industry the buildings were designed by an architect and built by a contractor. However, an increasing number of today's buildings rely on accurate assessment of the structure by a Consulting Engineering team.

The Technician and Technologist would be key personnel, who would have tended to specialise in structural Engineering.

The majority of qualified Civil Engineering staff however are engaged on all the other items that make up the built environment in the Civil Engineering Industry.

A specialisation in Water Engineering could bring an involvement in the design of water supply schemes, dams or irrigation projects. Alternatively, specialisation could be in the field of tunnels, bridges, transportation, mining or one of the many other aspects of engineering.

The construction industry offers thousands of unique and challenging positions in the new South Africa and throughout the world, and the opening to these is through a qualification as an Engineer, Technologist or Technician.

The main difference between the Professional Engineer and the Professional Technologist is that a Technologist tends to become more specialised in a particular field of Engineering, whereas an Engineer has been educated on a broader spectrum of subjects. Both the Professional Engineer and Professional Technologist may set up their own professional practice. The 2nd year Diploma in Engineering Technology: Civil Engineering is run on a semester basis

The course has national recognition and the overall concept and modules studied comply with the minimum standards as set by the Engineering Council of South Africa

At the Durban University of Technology, the modules syllabus has been adopted after consultation with representatives of the profession and the construction industry. In this way, students can be assured of the relevance of the course to their future employment.

Career opportunities

Most Civil Engineering Technicians and Technologists are employed in Industry, namely Building industry or Civil engineering industry and may be involved in planning, designing or constructing.

Entry Requirements Dip (Civil Engineering)

NATIONAL SENIOR CERTIFICATE (NSC) (01 January 2009)		SENIOR CERTIFICATE (SC) (PRE 2009)			NATIONAL CERTIFICATE (VOCATIONAL) (NCV)	
NSC DIPLOMA ENTRY Applicants with 28 points or more will be considered		SENIOR CERTIFICATE (SC) A Senior Certificate with a pass in English or equivalent qualification with 35 points will be considered			NATIONAL CERTIFICATE VOCATIONAL (NCV) – LEVEL 4	
Compulsory Subjects	NSC Rating Code	Compulsory Subjects	HG	SG	Compulsory Subjects	Mark
English	4				English	60%
Mathematics	4	Mathematics	E	C	Life Orientation	60%
Physical Science	4	Physical Science	E	C	Mathematics	60%
					Physical Science	60%

In addition, two other additional vocational subjects at a minimum of 60% from list below: Construction Planning, Construction Supervision, Materials, Carpentry and Roof Work, Concrete Structures, Masonry and Roads

NB:

1. NSC Mathematical Literacy will not be accepted as a substitute for the subject NSC Mathematics
2. The points for Mathematics and Physical Science will be doubled.
3. The Department will only consider 1st and 2nd choice C.A.O applicant students for the Civil Engineering programme.

Other:

Applicants, that qualify for diploma study (diploma Pass) at an institution of higher learning, but do not meet the departmental mathematics and/or physical science requirements, may present the following N4 subjects, for consideration for entry to the programme:

- Mathematics and Engineering Science, plus any two in the related field

The above subjects must be passed with a minimum of 50% and all in the same sitting.

Admission Requirement based upon Work Experience, Age and Maturity

For admission to entry level DIPLOMA and certificate studies:

A person may, subject to such requirements as the Senate may determine, be admitted to the Institution even if such a person is not in a possession of a National Senior Certificate, Senior Certificate or an equivalent certificate, provided that:

- (a) The person shall have reached the age of 23 in the first year of registration and shall have at least: three years' appropriate work experience; and/or capacity for the proposed instructional programme, which shall be assessed at the discretion of the respective Head of Department by a Senate approved admission assessment comprising of a DUT Standardised Assessment Test for Access and Placement (SATAP), Academic Literacies (Al) & English for Academic Purposes (EAP) and/or an appropriate subject or programme specific written assessment designed and marked by the relevant Department; and
- (b) The relevant Faculty Board shall be satisfied that the person's standard of communication skills, ability to study successfully and/or work experience are such that the person, in the opinion of the relevant Faculty Board, should be able to complete the proposed instructional programme successfully. If required, the communication skills and study skills should be tested; and
- (c) The person's application for admission in terms of work experience, age and maturity is approved prior to registration. Applicants intending to gain admission through work experience, age and maturity must submit their applications at least four months before commencement of the academic year inclusive of the date of scheduling writing a requisite eligibility assessment.

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NB: For semester programmes there is a single registration for semester 1 and semester 2 at the beginning of each academic year.

First Year Curriculum

Name of Module	Subject Code	HEQSF Level	SAQA Credits
Semester 1			
Computer Applications (Module 1)	CMAA101	5	12
Computer Applications (Module 2)	CMAB101	5	
Cornerstone	CSTN101	5	12
Drawing Applications	DRAP101	5	8
Drawing Equipment	DEQM101	-	-
Intro to Construction Materials	ICMT101	5	8
Law for life	LWLF101	5	8
Mathematics A	MMTA101	5	12
Physics A	PSCA101	5	8
Semester 2			
Civil Engineering Methods	CEMT101	5	12
Civil Mechanics A	CIVM101	5	8
Drawing (intro to CAD)	DICD101	5	12
Mathematics B	MMTB101	5	12
Physics B	PSCB101	5	8
Surveying for Civil Engineering	CVCE201	6	12
Technical Literacy	TLIT10	5	8
TOTAL			140

Second Year Curriculum

Semester 3			
Contract Management	CNTM201	6	8
Intro to Water Engineering A	IWEA201	6	12
Mathematics C	MMTC101	5	12
Physics C	PSCC101	5	8
Soil Mechanics A	SLMA201	6	8
Structural Mechanics	STME201	6	8
Transport Technology A	TRNA201	6	12
Semester 4			
Contract Administration	CTAD201	6	8
Design Project	DSGP201	6	8
Intro to Structural Design	INSD201	6	8
Intro to Water Engineering B	IWEB201	6	8
Soil Mechanics B	SLMB201	6	8
Structural Analysis	STRA201	6	12
Structural Detailing 3	STDT201	6	8
Transport Technology B	TRNB201	6	12
TOTAL			140

Students who do not automatically meet the entrance requirements for the Diploma in Engineering Technology in Civil Engineering, will be offered a place on the Engineering Access Programme which is an articulation route into the diploma programme – further details in this regard are available from the department on request.

NB: The course structure and requisite modules are subject to alteration.

Application

Applicants who wish to enrol for the programme must apply through the CAO system by no later than 30 November of the previous year.

Application Forms

Contact the **Central Applications Office (CAO)**

Address letters to:

Central Applications Office
Private Bag X06
Dalbridge,
4014

Tel: (031) 2684444

Fax: (031) 2684422

OR

Apply Online: <http://www.cao.za>

CAO Code: DU-I-DNC

Closing date for applications: 30 November 2020

For Further Information

Contact the Department of Civil Engineering
Indumiso Site, Midlands Campus (Pietermaritzburg)
Durban University of Technology
P O Box 1334
DURBAN, 4000
Tel: (033) 8459000
Email: nicky@dut.ac.za

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