



## BACHELOR OF ENGINEERING TECHNOLOGY IN CIVIL ENGINEERING



FACULTY OF  
ENGINEERING  
& THE BUILT  
ENVIRONMENT

DEPARTMENT OF  
CIVIL ENGINEERING  
& GEOMATICS

01 JAN - 31 DEC 2024

### Bachelor of Engineering Technology in Civil Engineering (BEng Tech Civil)

**NQF Level: 7**

**SAQA ID: 98956**

**Qualification Code: BNCVLI**

**Location: Steve Biko Campus (S6 Level 3) (Durban)**

#### Description of the Programme

The purpose of the Bachelor of Engineering Technology in Civil Engineering (BEng Tech Civil) is for students to acquire knowledge, understanding, abilities and skills of civil engineering. This combined with a period of post qualification mentored work experience will enable them to become competent practicing civil engineering technologists, able to apply engineering judgement and work independently and responsibly. It also provides students with the preparation required for careers in civil engineering, the ability to make a contribution to the economy and national development, and the educational base required for registration with ECSA as a Professional Engineering Technologist, as well as entry to NQF level 8 programmes, e.g., Honours. The duration of this programme is 3 years full time study. The programme will prepare students for further post graduate studies and research.

#### Career opportunities

Most Civil Engineering Technologists are employed in Civil engineering planning, designing, consulting or construction.

#### Entry Requirements

School leaving applicants who wish to enrol for the programme must apply through the CAO system by no later than 30 September of the previous year. The number of students enrolled in the programme is determined by the University and departmental growth policies and a ranking system is used to determine the number of candidates as required.

#### Explanation of Points scale: SENIOR CERTIFICATE(SC)

| SYMBOL | HIGHER GRADE | STANDARD GRADE |
|--------|--------------|----------------|
| A      | 8            | 6              |
| B      | 7            | 5              |
| C      | 6            | 4              |
| D      | 5            | 3              |
| E      | 4            | 2              |
| F      | 3            | 1              |
| A      | 8            | 6              |
| B      | 7            | 5              |

#### NATIONAL SENIOR CERTIFICATE(NSC)

| %      | LEVEL | POINTS |
|--------|-------|--------|
| 90-100 | 7     | 8      |
| 80-89% | 7     | 7      |
| 70-79% | 6     | 6      |
| 60-69% | 5     | 5      |
| 50-59% | 4     | 4      |
| 40-49% | 3     | 3      |
| 30-39% | 2     | 2      |
| 20-29% | 1     | 1      |

## MINIMUM ADMISSION REQUIREMENTS

### GENERAL ADMISSION REQUIREMENTS

A person will only be considered for registration for an instructional programme approved by the Institution's Senate if the person complies with:

- The minimum admission requirements stated in DUT general handbook (refer to DUT website for general handbook).
- Institutional faculty, departmental and/or instructional programme specific rules; and

### MINIMUM ADMISSION REQUIREMENTS IN TERMS OF THE HIGHER EDUCATION QUALIFICATIONS SUB-FRAMEWORK (HEQSF)

#### G7 rule: For Bachelor's Degree:

"a National Senior Certificate (NSC) as certified by the Council for General and Further Education and Training (Umalusi), with a minimum achievement rating of 3 for English and a minimum achievement rating of 4 in four NSC 20-credit subjects chosen from the NSC designated subject list"

#### Entry Requirements BET (Civil Engineering)

| NATIONAL SENIOR CERTIFICATE (NSC)<br>(01 January 2009)   |                 | SENIOR CERTIFICATE (SC)<br>(PRE 2009) |    |    | NATIONAL CERTIFICATE<br>(VOCATIONAL) (NCV)   |      |
|--|-----------------|---------------------------------------|----|----|--|------|
| NSC DEGREE ENTRY   |                 | SENIOR CERTIFICATE (SC)               |    |    | (NCV) LEVEL 4  |      |
| Compulsory Subjects  | NSC Rating Code | Compulsory Subjects                   | HG | SG | Compulsory Subjects  | Mark |
| English  | 4               | English                               | E  | C  | English  | 60%  |
| Mathematics  | 4               | Mathematics                           | E  | C  | Mathematics  | 70%  |
| Physical Science   | 4               | Physical Science                      | E  | C  | Physical Science   | 70%  |
| In addition: <b>TWO</b><br>recognized NSC 20<br>credit subjects as per G7<br>rule stated above   | 4               |                                       |    |    |  |      |
|  |                 |                                       |    |    | Life Orientation   | 60%  |
|  |                 |                                       |    |    | In addition, <b>TWO</b> other additional<br>vocational subjects at a minimum of 70%. |      |
| <b>NB:</b>   |                 |                                       |    |    |  |      |
| 1. NSC Mathematical Literacy will not be accepted as a substitute for the subject NSC Mathematics  |                 |                                       |    |    |  |      |
| 2. The exit certificate of the candidate must qualify the candidate for degree study at an institution of higher learning.   |                 |                                       |    |    |  |      |
| 3. Applicants with a NSC will be ranked according to the sum of their scores for Mathematics and Physical Science, subject to a minimum combined score of 120%.  |                 |                                       |    |    |  |      |
| 4. Prospective applicants may also present an NQF level 6 Diploma in Engineering for entry into the degree programme. A possibility of transfer of credits for cognitive previous studies would be considered dependent on the discipline and nature of the Diploma being presented. |                 |                                       |    |    |  |      |
| 5. This Department only considers First – Second choice CAO applicants.  |                 |                                       |    |    |  |      |

OR

### ADMISSION REQUIREMENTS BASED UPON WORK EXPERIENCE, AGE AND MATURITY

#### For admission to entry level DEGREE studies:

A person may, subject to such requirements as the Senate may determine, be admitted if such a person is in possession of a National Senior Certificate, Senior Certificate, or an equivalent certificate, but lacks the minimum requirements for admission to the degree provided that:

- 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 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) (2,5 hours) and/or an appropriate subject or programme specific written assessment designed and marked by the relevant Department; and the person has obtained
- A conditional certificate of exemption from the Matriculation Board (when in possession of the Senior Certificate (SC).  
OR has met
- The requirements for Senate discretionary admission (when in possession of the NSC or equivalent), where Senate is satisfied the applicant has shown sufficient academic ability to ensure success, and that the person's standard of communication skills, and/or work experience are such that the person, in the opinion of the Senate, should be able to complete the proposed instructional programme successfully.
- The person's application for admission in terms of with 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.**

### Tuition Fees

To assist you with your planning, the **2023** fees have been indicated. An increase for next year to accommodate the inflation rate can be expected.

**Please Note:** DUT cannot be held liable for the fees in this brochure as the **2024** fees are not yet finalised

### First Year Curriculum

| Name of Module                        | Subject Code | HEQSF Level | SAQA Credits | 2023 Fees        |
|---------------------------------------|--------------|-------------|--------------|------------------|
| <b>Semester One</b>                   |              |             |              |                  |
| Cornerstone 101                       | CSTN101      | 5           | 12           | R3580.00         |
| Civil Mechanics IA                    | CVMC101      | 5           | 8            | R4130.00         |
| Drawings IA                           | DRNS101      | 5           | 12           | R5850.00         |
| Engineering Mathematics IA            | EMTA101      | 5           | 12           | R4400.00         |
| Engineering Physics IA                | EPHA101      | 5           | 12           | R4400.00         |
| Law for Life                          | LWLF101      | 5           | 8            | R2230.00         |
| <b>TOTAL</b>                          |              |             |              | <b>R24590.00</b> |
| <b>Semester Two</b>                   |              |             |              |                  |
| Civil Engineering Methods IB          | CVMT101      | 5           | 12           | R4400.00         |
| Engineering Mathematics IB            | EMTB10       | 5           | 12           | R4400.00         |
| Engineering Physics IB                | EPHB101      | 5           | 12           | R4400.00         |
| Surveying for Civil Engineering IB    | SRCV101      | 5           | 16           | R6470.00         |
| Structural Mechanics IB               | STMC101      | 5           | 12           | R4400.00         |
| Technical Literacy                    | TECL101      | 5           | 8            | R3040.00         |
| <b>TOTAL CREDITS SEMESTER 1&amp;2</b> |              |             | <b>136</b>   |                  |
| <b>TOTAL</b>                          |              |             |              | <b>R27110.00</b> |
| <b>Second Year Curriculum</b>         |              |             |              |                  |
| <b>Semester Three</b>                 |              |             |              |                  |
| Civil Engineering Material IIA        | CMTL201      | 6           | 12           | R4400.00         |
| Engineering Mathematics IIA           | EMTA201      | 6           | 12           | R4400.00         |
| Engineering Management IIA            | ENMG201      | 6           | 8            | R3030.00         |
| Structural Mechanics IIA              | STMC201      | 6           | 12           | R4400.00         |
| Transport Technology IIA              | TRTA201      | 6           | 12           | R4400.00         |
| Water Hydraulics IIA                  | WHYD201      | 6           | 12           | R4400.00         |
| <b>TOTAL</b>                          |              |             |              | <b>R25030.00</b> |
| <b>Semester Four</b>                  |              |             |              |                  |
| Engineering Mathematics IIB           | EMTB201      | 6           | 12           | R4400.00         |
| Geotechnical Engineering IIB          | GEOT201      | 6           | 12           | R3490.00         |
| Structural Design Theory Intro IIB    | SDTI201      | 6           | 16           | R6010.00         |
| Structural Analysis IIB               | STAN201      | 6           | 12           | R3490.00         |
| Transport Technology IIB              | TRTB201      | 6           | 12           | R4400.00         |
| Water Hydrology IIB                   | WHDL201      | 6           | 12           | R4400.00         |
| <b>TOTAL CREDITS SEMESTER 3&amp;4</b> |              |             | <b>144</b>   |                  |
| <b>TOTAL</b>                          |              |             |              | <b>R26190.00</b> |
| <b>Second Year Curriculum</b>         |              |             |              |                  |
| <b>Semester Five</b>                  |              |             |              |                  |
| CAD Civil Engineering Drawings IIIA   | CCED301      | 7           | 12           | R5780.00         |
| Civil Engineering Documentation IIIA  | CEDC301      | 7           | 12           | R4400.00         |
| Construction Management IIIA          | CNMN301      | 7           | 12           | R4400.00         |
| Reinforced Concrete Design IIIA       | RFCD301      | 7           | 12           | R4400.00         |
| Transport Technology IIIA             | TRTA301      | 7           | 12           | R6010.00         |
| Water Reticulation Design IIIA        | WRTD301      | 7           | 12           | R4400.00         |
| <b>TOTAL</b>                          |              |             |              | <b>R29390.00</b> |
| <b>Semester Six</b>                   |              |             |              |                  |
| Design Project                        | DSNP301      | 7           | 20           | R7430.00         |
| Project Management                    | PRMA301      | 7           | 8            | R3490.00         |
| Structural Steel Design IIIB          | STSD301      | 7           | 12           | R4400.00         |
| Transport Technology IIIB             | TRTB301      | 7           | 12           | R4400.00         |
| Water Treatment Technology IIIB       | WTRM301      | 7           | 12           | R4400.00         |
| <b>TOTAL CREDITS SEMESTER 5&amp;6</b> |              |             | <b>136</b>   |                  |

**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 September 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-D-BNC

**Closing date for applications:** 30 September 2023

### For Further Information

Contact the Department of Civil Engineering and Geomatics

Steve Biko Campus (S8 Level 3)

Durban University of Technology

P O Box 1334

DURBAN,

4000

Tel: (031) 3732224

Email: [pauline@dut.ac.za](mailto:pauline@dut.ac.za)

### Financial Aid

For Financial Aid application for a DUT programme please apply online at [www.nsfas.org.za](http://www.nsfas.org.za) or call the NSFAS call centre on 0860 067 327.

For an explanation on how to fill out the application form, please go to [www.nsfas.org.za](http://www.nsfas.org.za) or contact the call centre on the number above.

**Please note** that completing a form does not guarantee Financial Aid. For further assistance, please consult the Department of Financial Aid and Scholarships on (031)373 2931/2557/2054.

*This is for information purposes only and is not binding on the Durban University of Technology*