### NATIONAL DIPLOMA: ENGINEERING: CIVIL

**Remarks**

a. Admission requirements: A National Senior Certificate with an endorsement of a bachelor’s degree or diploma or an equivalent qualification, with at least (4) for English and (5) for Mathematics and (3) for Physical Sciences. Total APS of 25 will be considered for the National Diploma.

<table>
<thead>
<tr>
<th>English</th>
<th>Mathematics</th>
<th>Physical Sciences</th>
<th>Three other subjects, excluding Life Orientation</th>
<th>APS Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 (50–59%)</td>
<td>5 (60–69%)</td>
<td>5 (60–69%)</td>
<td></td>
<td>14 28</td>
</tr>
</tbody>
</table>

A National Senior Certificate with an endorsement of a bachelor’s degree or diploma or an equivalent qualification, with at least (4) for English and (4) for Mathematics and (3) for Physical Sciences. Total APS of 25 – 27 will be considered for the National Diploma (Extended).

<table>
<thead>
<tr>
<th>English</th>
<th>Mathematics</th>
<th>Physical Sciences</th>
<th>Three other subjects, excluding Life Orientation</th>
<th>APS Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 (50–59%)</td>
<td>4 (50 – 59%)</td>
<td>3 (40 – 48%)</td>
<td></td>
<td>9 20 - 27</td>
</tr>
</tbody>
</table>

A National Senior Certificate (Vocational) at NQF Level 4 with an endorsement of a bachelor’s degree or diploma or an equivalent qualification, with at least (4) for English and (4) for Mathematics and (3) for Physical Sciences. Total APS of 25 – 27 will be considered for the National Diploma (Extended).

<table>
<thead>
<tr>
<th>English</th>
<th>Mathematics</th>
<th>Physical Sciences</th>
<th>Three other subjects, excluding Life Orientation</th>
<th>APS Total</th>
</tr>
</thead>
<tbody>
<tr>
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<td>5 (60–69%)</td>
<td></td>
<td>9 20 - 27</td>
</tr>
</tbody>
</table>

### FIRST YEAR

**PRESENTED IN THE FIRST SEMESTER**

<table>
<thead>
<tr>
<th>CODE</th>
<th>SUBJECT</th>
<th>PREREQUISITE SUBJECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>AME111T</td>
<td>Applied Mechanics I</td>
<td>None</td>
</tr>
<tr>
<td>CSK101T</td>
<td>Computer Skills I</td>
<td>None</td>
</tr>
</tbody>
</table>

### SECOND SEMESTER

**PRESENTED IN THE FIRST AND SECOND SEMESTERS**

<table>
<thead>
<tr>
<th>CODE</th>
<th>SUBJECT</th>
<th>PREREQUISITE SUBJECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT117T</td>
<td>Mathematics I</td>
<td>None</td>
</tr>
<tr>
<td>SUR11YT</td>
<td>Surveying: Theory I</td>
<td>None</td>
</tr>
<tr>
<td>SUR11ZT</td>
<td>Surveying: Practical I</td>
<td>None</td>
</tr>
</tbody>
</table>

### THIRD YEAR

**PRESENTED IN THE SECOND SEMESTER**

<table>
<thead>
<tr>
<th>CODE</th>
<th>SUBJECT</th>
<th>PREREQUISITE SUBJECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEN201T</td>
<td>Transportation Engineering II</td>
<td>Theory of Structures II</td>
</tr>
<tr>
<td>WEN201T</td>
<td>Water Engineering II</td>
<td>Applied Mechanics I</td>
</tr>
</tbody>
</table>

### SECOND YEAR

**PRESENTED IN THE FIRST SEMESTER**

<table>
<thead>
<tr>
<th>CODE</th>
<th>SUBJECT</th>
<th>PREREQUISITE SUBJECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM101T</td>
<td>Chemistry I</td>
<td>None</td>
</tr>
</tbody>
</table>

**PRESENTED IN THE SECOND SEMESTER**

<table>
<thead>
<tr>
<th>CODE</th>
<th>SUBJECT</th>
<th>PREREQUISITE SUBJECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT211T</td>
<td>Mathematics II</td>
<td>Mathematics I</td>
</tr>
</tbody>
</table>

### BACHELOR’S DEGREE IN TECHNOLOGY: ENGINEERING: CIVIL

A National Diploma in Engineering: Civil or an NQF Level 6 (the old NQF and the new HEQF) qualification in Civil Engineering (or a closely related field), obtained from an accredited South African university. Preference will be given to applicants with an average of 60% or more. Candidates who do not meet the 60% requirement will be evaluated by the Department and may be requested to provide a portfolio of relevant work experience (excluding P1 and P2) in order to be considered for selection, which does not guarantee a place.

Apart from meeting the above requirements, a candidate must have obtained a minimum of 60% in selected subjects specific to each qualification.

### BLOCK-COURSE DATES

The actual commencement dates will be communicated via the internet, www.fe.tut.ac.za

### CONSTRUCTION MANAGEMENT

**Course code:** BTMK02

**2016 FIRST SEMESTER**

- IRN201B Industrial Relations and Negotiations II
- MPH401B Management Principles and Practice IV

**2016 SECOND SEMESTER**

- CCON401T Concrete Technology IV
- ENNH401T Environmental Management for Engineers: Civil IV

**2017 FIRST SEMESTER**

- FCC701T Commercial Law: Civil
- FMN301A Financial Management III

**2017 SECOND SEMESTER**

- ANH41T Asphalt Technology IV
- PJ5401T Project Management: Civil IV

### ENVIRONMENTAL ENGINEERING

**Course code:** BTDO2

**2016 FIRST SEMESTER**

- ENNH401T Environmental Management for Engineers: Civil IV
- WAT401T Water Resource Management: Civil IV

**2016 SECOND SEMESTER**

- SOI401T Soil and Ground Water Pollution: Civil IV
- SWM401T Solid Waste Management IV

**2017 FIRST SEMESTER**

- SAA401T Social Environmental Studies: Civil IV

**2017 SECOND SEMESTER**

- ENNH401T Environmental Management for Engineers: Civil IV

### GEOTECHNICAL ENGINEERING

**Course code:** BTGO2

**2016 FIRST SEMESTER**

- HGE301B Hydrogeology III
- KMF401T Construction Materials Technology IV

**2016 SECOND SEMESTER**

- PDE6401T Foundation Engineering IV
- SCO401T Soil and Ground Water Pollution: Civil IV

**2017 FIRST SEMESTER**

- EVD401T Earthworks Design IV
- GEC401T Geology: Civil IV

**2017 SECOND SEMESTER**

- AGM401T Applied Geomatics IV
- PDE5401T Principles of Dam Engineering IV

### STRUCTURAL ENGINEERING

**Course code:** BTDO2

**2016 FIRST SEMESTER**

- RC401T Reinforced Concrete Design IV
- STD401T Structural Timber Design IV

**2016 SECOND SEMESTER**

- RC501T Reinforced Concrete Design IV
- STD501T Structural Timber Design IV
a. Admission requirements: A Baccalaureus Technologiae: Engineering: Civil or an NQF Level 7 qualification in Civil Engineering or a related field obtained from a South African university with an aggregate of at least 60% for all subjects. Candidates with less than 60% but more than 55% should have completed a minimum of one year of industrial experience in the desired field of specialisation. Holders of any other equivalent South African or foreign qualifications may also be considered. International students will be required to submit an evaluation by the South African Qualifications Authority (SAQA) of their qualifications with their application forms. The Faculty reserves the right to assess these qualifications and the applicant’s suitability for admission to the programme.

b. Duration: A minimum of one year and a maximum of three years.

c. Presentation: Research

Remarks

Admission requirements: A Magister Technologiae: Engineering: Civil or an NQF Level 8 qualification in Civil Engineering (or a related field) obtained from a South African university. Holders of any other equivalent (South African or foreign) qualifications, may also be considered. Foreign students will be required to submit an evaluation by the South African Qualifications Authority (SAQA) of their qualifications with their application forms. The Faculty reserves the right to assess these qualifications and the applicant’s suitability for admission to the programme.

b. Offering type: Research-only programme, with mandatory attendance of the course in Research Methodology.

c. Duration: A minimum of two years and a maximum of five years

Faculty of Engineering and the Built Environment

Department of Civil Engineering

Pretoria Campus

National Diploma and B Tech: Civil

2016