

PROPECTUS 2019

PHASE-OUT AND PHASE-IN OF QUALIFICATIONS

1. The new *Policy for Higher Education Qualifications* has brought changes at national level. Such changes were required by the policy document titled *Higher Education Qualifications Sub-Framework (HEQSF)*, *Government Gazette No. 36721 (02 August 2013)*. The introduction of the HEQSF in the Higher Education sector required all public and private Higher Education Institutions (HEIs), including Tshwane University of Technology (TUT), to revise all its qualifications to ensure alignment with the HEQSF.
2. The department of **Industrial Engineering** is phasing out the following academic qualifications (NATED 151 Report):
 - **N Dip: Engineering: Industrial (NDEI03)** (last intake: January 2018)
 - **N Dip: Engineering: Industrial (NDEIF0)** (last intake: January 2017)
 - **B Tech: Engineering: Industrial (BTEI03)** (last intake: July 2019)
3. The following new qualifications as per the HEQSF are offered from 1 January 2018 and 1 January 2019 respectively:
 - **Higher Certificate in Industrial Engineering (HCIE18)**
 - **Bachelor of Engineering Technology in Industrial Engineering (BPIE18)**
4. The **N Dip: Engineering: INDUSTRIAL** will phase-out as per the table below:

Level	Last semester to be offered
S1	July 2018
S2	July 2019
S3	July 2020
S4	July 2021

Kindly note that if a student does not complete his/her studies according to the above schedule, he/she will have to apply for admission to a new HEQSF aligned qualification. There is a significant difference between the NATED 151 Report and HEQSF aligned qualifications.

Admission is based on merit and available space and is therefore not automatic. Further note that the rules and regulations in the Prospectus must be referred to for recognition of relevant subjects.

5. The **B Tech: Engineering: Industrial** will phase-out over a four year period from July 2019. The last offering of B Tech subjects will be July 2023 (students should consult the TUT prospectus for detailed information on the phasing-out of programme specific subject offerings).

6. The following options are available for articulation from the NATED 151 qualifications to the HEQSF aligned qualifications for recognition of subjects:

6.1 MODULE/SUBJECT RECOGNITION FROM NDEIF0/NDEI03 TO HCIE18

NDEIF0/ NDEI03	HCIE18
Engineering Communication I (EGN101T) or Engineering Communication (Extended) I (FPEGN01/FPEGNR1)	Communication Skills (COM105X)
Quality Assurance II (QAS201T)	Quality systems and process improvements (QSP115C)
Qualitative Techniques I (QTQ101T)	Statistics (STT115C)
Engineering Work Study I (EWK121T)	Engineering Work Systems for Process Planning (EWP115C)
Mechanical Engineering Drawing I (MDR101B)	Engineering Graphics (EGR115C)

6.2 MODULE/SUBJECT RECOGNITION FROM NDEI03/NDEIF0 TO BPIE18

NDEI03	BPIE18
Engineering Communication I (EGN101T)	Computer Literacy (COL105X)
Engineering Work Study I (EWK121T) + Engineering Work Study II (EWK221) + Facility Layout and Materials Handling II (FLM201T)	Industrial Work Systems (IWS105B)
Operational Research III (ORS321T)	Operational Research (OPR216B)
Mechanical Engineering Drawing I (MDR101B)	Engineering Graphics (EGC105B)
Production Engineering I (PEI111T)+ Production Engineering II (PEI221T)	Production Engineering (PRE206B)
Mathematics I (MAT171T) and Mathematics II (MAT271B)	Engineering Mathematics I (EMA105B)
Mechanical Manufacturing Engineering I (MME101T) + Mechanical Manufacturing Engineering II (MME201T)+ Automation III (ATM301B)	Production and Automation (PAA206B)
Qualitative Techniques I (QTQ101T)	Probability and Statistics (PAS216B)
Industrial Engineering Systems Design II (IED201T)	System Engineering (SYE307B)
Quality Assurance II (QAS201T) + Quality Assurance IV (QAS401T)	Quality Engineering and Management Systems (QMS307B)
Costing II (CSG201T) + Industrial Accounting III (IAC301T)	Engineering Business Management (EBM307B)
Mechanics I (MHC101T)	Mechanics (MEC105B)

NDEIF0	BPIE18
Engineering Communication (Extended) I (FPEGN01/FPEGNR1)	Computer Literacy (COL105X)
Mechanical Engineering Drawing (Extended) I (FPMDR01/FPMDR1)	Engineering Graphics (EGC105B)
Mathematics (Extended) I (FPMAT04/ FPMATR4) and Mathematics II (MAT271B)	Engineering Mathematics I (EMA105B)
Mechanical Manufacturing Engineering (Extended) I (FPMME01/FPMMER1) + Mechanical Manufacturing Engineering II	Production and Automation (PAA206B)

(MME201T) + Automation III (ATM301B) + Mechanical Manufacturing Engineering II (MME201T) + Automation III (ATM301B)	
Qualitative Techniques I (QTQ101T)	Probability and Statistics (PAS216B)
Mechanics (Extended) I (FPMHC01/FPMHCR1)	Mechanics (MEC105B)

6.3 MODULE/SUBJECT RECOGNITION FROM HCIE18 TO BPIE18

HCIE18	BPIE18
Information Literacy (INL125C)	Information Literacy (INL125C)
Life Skills (LFS125X)	Life Skills (LFS125X)
Communication Skills (COM105X)	Communication Skills (COS105X)
Engineering Graphics (EGR115C)	Engineering Graphics (EGC105B)
Computer Literacy (CPL105X)	Computer Literacy (COL105X)
Engineering Physics (EPH105C)	Physics (SEP125B)
Statistics (STT115C)	Probability and Statistics (PAS216B)
Engineering Work Systems for Process Planning (EWP115C) + Industrial Engineering Practice (IEP115C)	Industrial Work Systems (IWS105B)

6.4 MODULE/SUBJECT RECOGNITION FROM BTEI03 TO BPIE18

BTEI03	BPIE18
Project Engineering IV (PJE401T)	Project Engineering (POE215B)
System Dynamics IV (SDN411T)	Simulation Design (SID216B)
Quality Assurance IV (QAS401T)	Quality Engineering and Management Systems (QMS307B)
Production Technology IV (PHY401T)	Advanced Manufacturing (ADM317B)

6.5 NOTE THE FOLLOWING ADMISSION REQUIREMENTS:

Admission is based on merit and available space and is therefore not automatic. Further note that 50% of relevant subjects passed may be recognised in the case of qualifications that was already issued and 50% in the case of unfinished qualifications.

An average mark of 60% or higher and an average mark of 60% or higher in the following modules/subjects:

- Technical Mathematics (TMA105C)
- Engineering Physics (EPH105C)
- Engineering Graphics (EGR115C)

7. EXCLUSION

Students who were excluded and have outstanding S1 & S2 subjects may be transferred to the relevant Higher Certificate, and receive recognition for completed subjects. Once completed the Higher Certificate, candidates may apply for admission to a relevant B Eng Tech or any relevant qualification on the HEQSF.