BACCALAUREUS TECHNOLOGIAE: QUALITY
Qualification code: BTQU02 - NQF Level 7

Campus where offered: Arcadia Campus

Important notification to new applicants:
Students who intend to enrol for this qualification should take note that no new applications will be accepted as from 2020. Potential students are advised to consult the University's website for possible new qualifications which are aligned with the newly-implemented Higher Education Qualification Sub-Framework.

REMARKS

a. Admission requirement(s) and selection criteria:
Any relevant NQF Level 6 bachelor's degree or diploma from a South African university.

Holders of any other equivalent South African or international qualifications may also be considered, but will have to apply about six months in advance for the recognition of such qualifications. Candidates will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA) with their application forms for admission. The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required. Depending on the nature of such an equivalent qualification, completion of certain additional subjects may be required.

b. Selection criteria:
Selection is based on an assessment by a departmental selection panel.

c. Recommended subject(s):
Computer Skills I (with demonstrated competence in Excel, Word and PowerPoint) and any of the following subjects: Mathematics I, Qualitative Techniques I, Quantitative Techniques I and Statistics I.

d. Minimum duration:
One year.

e. Presentation:
Block-mode classes offered over a period of two years.

f. Intake for the qualification:
January only.

g. Exclusion and readmission:
See Chapter 2 of Students’ Rules and Regulations.

h. Recognition of Prior Learning (RPL), equivalence and status:
See Chapter 30 of Students’ Rules and Regulations.

i. Structure:
This qualification consists of six subjects in which lectures are attended plus a research project, Project IV (seventh subject). Before the project is accepted for assessment, the student must submit an article, based on the research and approved by the supervisor, to be considered for publication in a journal. A draft of the article must be submitted with Project IV.

j. Subject credits:
Subject credits are shown in brackets after each subject.
## CURRICULUM

### FIRST AND SECOND YEAR

<table>
<thead>
<tr>
<th>CODE</th>
<th>SUBJECT</th>
<th>CREDIT</th>
<th>PREREQUISITE SUBJECT(S)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PJT400T</td>
<td>Project IV</td>
<td>(0.250)</td>
<td></td>
</tr>
<tr>
<td>PJT400R</td>
<td>Project IV (re-registration)</td>
<td>(0.000)</td>
<td></td>
</tr>
</tbody>
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### FIRST SEMESTER

- **CQI401T**: Continual Quality Improvement IV (0.125)
- **QMS301T**: Quality Management Systems III (0.125)
- **SQT301T**: Statistical Quality Techniques III (0.125)

### SECOND SEMESTER

- **QAQ401T**: Quality Auditing Techniques IV (0.125)
- **QPI401T**: Quality Planning and Implementation IV (0.125)
- **QTS401T**: Quality Techniques IV (0.125)

**TOTAL CREDITS FOR THE QUALIFICATION:** 1,000

### SUBJECT/MODULE INFORMATION (OVERVIEW OF SYLLABUS)

The syllabus content is subject to change to accommodate industry changes. Please note that a more detailed syllabus is available at the Department or in the study guide that is applicable to a particular subject/module. On 01 August 2017, the syllabus content was defined as follows:

#### C

**CONTINUAL QUALITY IMPROVEMENT IV (CQI401T)**  
**1 X 3-HOUR PAPER**  
*(Subject custodian: Department of Mathematics and Statistics)*  

#### P

**PROJECT IV (PJT400T/R)**  
**PROJECT ASSESSMENT**  
*(Subject custodian: Department of Mathematics and Statistics)*  

#### Q

**QUALITY AUDITING TECHNIQUES IV (QAQ401T)**  
**1 X 3-HOUR PAPER**  
*(Subject custodian: Department of Mathematics and Statistics)*  

**QUALITY MANAGEMENT SYSTEMS III (QMS301T)**  
**1 X 3-HOUR PAPER**  
*(Subject custodian: Department of Mathematics and Statistics)*  
QUALITY PLANNING AND IMPLEMENTATION IV (QPI401T)  1 X 3-HOUR PAPER
(Subject custodian: Department of Mathematics and Statistics)
The American quality experts: Juran, Deming, Crosby and other quality experts. Service Quality. Change management. Integrated ISO management systems. Risk management. (Total tuition time: not available)

QUALITY TECHNIQUES IV (QTS401T)  1 X 3-HOUR PAPER
(Subject custodian: Department of Mathematics and Statistics)
Six Sigma process. Statistical process control (SPC) techniques. Process capability. SPC for measurement and R & R studies (MSA). FMEAs. Reliability theory, ISO 10017 (Total tuition time: not available)

STATISTICAL QUALITY TECHNIQUES III (SQT301T)  PRACTICAL EXAMINATION
(Subject custodian: Department of Mathematics and Statistics)
Fundamentals of statistics. Analytical statistics, including descriptive statistics, probability theory, sampling techniques, confidence intervals, hypothesis testing, regression analyses, non-parametric tests. Design of experiments. Use of statistical software. ISO 10017. (Total tuition time: not available)