

# BACCALAUREUS TECHNOLOGIAE: TECHNOLOGY MANAGEMENT

## Qualification code: BTTE01 - NQF Level 7

Campus where offered: Pretoria Campus

Please note that this qualification will not be offered until further notice.

### REMARKS

a. *Admission requirement(s):*

A National Diploma: Engineering: Industrial or an NQF Level 6 (old NQF and new HEQF) qualification in Industrial Engineering (or a closely related field), obtained from an accredited South African university. Preference will be given to candidates 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.

National Diploma students at TUT who are busy with their final semester (P2) and do not have more than one theoretical subject outstanding may also apply for admission and may be considered based on the average of their completed theoretical subjects, but admission will be subject to the successful completion of the National Diploma and the Faculty's Student Enrolment Plan (SEP).

Holders of any other equivalent South African or international qualifications may also be considered, but will have to apply at least 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 University and/or Faculty reserves the right to assess these qualifications and the applicant's suitability and/or competence for admission to the programme. Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required. Proof of English proficiency may be required.

b. *Selection criteria:*

Due to capacity constraints, candidates will be selected based on academic performance and/or work experience. Selection will be done after the closing date for applications. Please note that meeting the minimum requirements does not guarantee admission.

c. *Minimum duration:*

One year.

d. *Presentation:*

Block-mode classes presented in the day or evening provided that there are sufficient students. Classes and assessments may take place on Friday afternoons and/or Saturdays.

e. *Intake for the qualification:*

January only.

f. *Exclusion and readmission:*

See Chapter 2 of Students' Rules and Regulations.

g. *Recognition of Prior Learning (RPL), equivalence and status:*

See Chapter 30 of Students' Rules and Regulations.

h. *Subject credits:*

Subject credits are shown in brackets after each subject.



## CURRICULUM

### ATTENDANCE

CODE	SUBJECT	CREDIT
RMD100N	Research Methodology	(0,075)

### FIRST SEMESTER

BAD40AB	Business Administration IVA	(0,038)
ENT401B	Entrepreneurship IV	(0,075)
IES201T	Industrial Economics II	(0,075)
INK201T	International Marketing II	(0,075)
INL201T	International Law II	(0,075)
ISY401T	Information Systems IV	(0,075)
PJR401B	Project Research IV	(0,100)
THY401T	Technology Management (A) IV	(0,075)

### SECOND SEMESTER

BAD40BB	Business Administration IVB	(0,037)
BUL401T	Business Logistics IV	(0,075)
FCC201T	Finance and Cost Accounting II	(0,075)
PJE401T	Project Engineering IV	(0,075)
THY411T	Technology Management (B) IV	(0,075)

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. On 13 October 2017, the syllabus content was defined as follows:

### B

**BUSINESS ADMINISTRATION IVA (BAD40AB) 1 X 3-HOUR PAPER**  
**BUSINESS ADMINISTRATION IVB (BAD40BB) 1 X 3-HOUR PAPER**

*(Subject custodians: Business School and the Department of Managerial Accounting and Finance)*

Basic business administration: accounting cycle function of bookkeeping, bookkeeping model. Trading firm: costs and returns, assets and liabilities, administration of assets. Production firm: cost classification, cost particularisation, marginal cost and results analysis. (Total tuition time: ± 80 hours)

**BUSINESS LOGISTICS IV (BUL401T) 1 X 3-HOUR PAPER**  
*(Subject custodian: Department of Industrial Engineering)*

Decision-making models, stock control, prediction methods, logistics performance criteria, client-order-disconnecting-moment, typology of industrial organisations, design factory layout, material management and distribution. Production control: BSC, OPT, MRP, MRPII, JIT, Kanban, queuing, department control, material development, material handling, operational research (overview). (Total tuition time: not available)

### E

**ENTREPRENEURSHIP IV (ENT401B) 1 X 3-HOUR PAPER**  
*(Subject custodian: Department of Management and Entrepreneurship)*

Introduction to strategic management. A strategic management model for a business. Situational analysis of a business. Strategy formulation, implementation and control. Continuous improvement approaches. Case studies and projects. Entrepreneurship: principles, innovation, creativity, opportunities, entrepreneurial options, sources of support. (Total tuition time: ± 70 hours)



**F****FINANCE AND COST ACCOUNTING II (FCC201T)****1 X 3-HOUR PAPER****(Subject custodian: Department of Managerial Accounting and Finance)**

Cost price calculation, profit, financial forecasting and budgeting, influence of risk on financial decisions, capital budgeting, dividend policy, capital structure, cash management models, international business finance, investment rules. (Total tuition time: not available)

**I****INDUSTRIAL ECONOMICS II (IES201T)****1 X 3-HOUR PAPER****(Subject custodian: Department of Industrial Engineering)**

Constructing recycling model, buying motives of consumers, motives of producers, demand for market group, supply of market goods, functioning of the market mechanism, pricing of production factors, role of government and international countries in the economic process. (Total tuition time: not available)

**INFORMATION SYSTEMS IV (ISY401T)****1 X 3-HOUR PAPER****(Subject custodian: Department of Industrial Engineering)**

Structure and strategic organisational role. Computer systems resources. Decision support systems and executive information systems. Development and implementation of information systems. (Total tuition time: ± 40 hours)

**INTERNATIONAL LAW II (INL201T)****1 X 3-HOUR PAPER****(Subject custodian: Department of Law)**

International law firms, magistrate's court, debt collections, high court, solvent deceased estates, conveyancing, secretarial and notarial practice, Stamp Duties Act, 1968 (Act No. 77 of 1968), companies and close corporations. (Total tuition time: not available)

**INTERNATIONAL MARKETING II (INK201T)****1 X 3-HOUR PAPER****(Subject custodian: Department of Marketing, Logistics and Sport Management)**

Economic rationale of multi-trade business, the import/export process, international marketing environmental scanning, international monetary system, international finance and accounting. Regional market agreements, economic, cultural, political and legal environment. International marketing research, global marketplace, product/services policy and planning, new product/service development, international pricing strategy, channels of distribution and supply chain management, export/import logistics, advertising, multinational sales management, organisation, control and marketing planning and strategy. (Total tuition time: not available)

**P****PROJECT ENGINEERING IV (PJE401T)****1 X 3-HOUR PAPER****(Subject custodian: Department of Industrial Engineering)**

Need for and advantages of project management. Definition of the project. Modern project planning methods. Communication and presentation of information. Feasibility studies (affordability). Project implementation. Support of the operational systems. Case studies, projects and computer applications. (Total tuition time: ± 40 hours)

**PROJECT RESEARCH IV (PJR401B)****1 X 3-HOUR PAPER****(Subject custodian: Department of Industrial Engineering)**

Introduction to business research methods and the research process, designing of research including observation studies, qualitative research, experiments and surveys. Data collection and sources with emphasis on measurement and measurement scales, questionnaires and sampling. Analysis and presentation of data with Hypothesis testing, multivariate analysis and measures of association. (Total tuition time: ± 40 hours)

**T****TECHNOLOGY MANAGEMENT (A) IV (THY401T)****1 X 3-HOUR PAPER****(Subject custodian: Department of Industrial Engineering)**

Communicative structures, mechanisms of behaviour, teamwork (leadership and membership), selection techniques, negotiating, problem-solving and decision-making, presentations. (Total tuition time: not available)



**TECHNOLOGY MANAGEMENT (B) IV (THY411T)**

**1 X 3-HOUR PAPER**

***(Subject custodian: Department of Industrial Engineering)***

Operations management: research, investment, production marketing, finance and accounting. Strategic management: innovating, renewing or discontinuing productions, mergers, closing, buying or selling companies. (Total tuition time: not available)

