

BACCALAUREUS TECHNOLOGIAE: ENGINEERING: CIVIL: CONSTRUCTION MANAGEMENT

Qualification code: BTKG02 - NQF Level 7

Campus where offered: Pretoria Campus (block-mode classes)
Last year of new intake: July 2019
Teach-out (phase-out) date: 30 June 2023

Students registered for this qualification should complete their studies according to the teach-out date prescribed for the qualification, subject to the stipulations of Regulation 3.1.11 and 3.1.13 in the Students' Rules and Regulations.

Information on phased-out programmes can be obtained from the TUT website, www.tut.ac.za.

CURRICULUM

Consult the 2019 Faculty Prospectus for the full contents of the qualification.

Please note:

Students must pass eight subjects. A minimum of five compulsory subjects in their particular field of specialisation should be taken, with the balance made up of subjects offered in the other fields of specialisation. Optional/elective subjects taken from the other fields must be closely related/relevant to the qualification. Subjects are offered as determined by the Head of the Department. The total credits of the Level IV subjects may not be less than 0,500.

Students who register for the subject Construction Materials Technology IV are not permitted to register for Asphalt Technology IV or Concrete Technology IV.

ATTENDANCE

CODE	SUBJECT	CREDIT
FIRST SEMESTER (2021)		
CLC101T	Commercial Law: Civil	(0,125)
FMN301T	Financial Management III	(0,125)
SECOND SEMESTER (2021)		
AHT401T	Asphalt Technology IV	(0,125)
PJG401T	Project Management: Civil IV	(0,125)
FIRST SEMESTER (2022)		
IRN201B	Industrial Relations and Negotiation II	(0,125)
MPP401B	Management Principles and Practice IV	(0,125)
SECOND SEMESTER (2022)		
CCN401T	Concrete Technology IV	(0,125)
ENN401T	Environmental Management for Engineers: Civil IV	(0,125)
TOTAL CREDITS FOR THE QUALIFICATION:		1,000



SUBJECT 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. At time of publication, the syllabus content was defined as follows:

A

ASPHALT TECHNOLOGY IV (AHT401T) 1 X 4-HOUR PAPER
(Subject custodian: Department of Civil Engineering)
Rehabilitation. Applications and design. Influence of the traffic and the environment. Project. (Total tuition time: ± 32 hours)

C

COMMERCIAL LAW: CIVIL (CLC101T) 1 X 3-HOUR PAPER
(Subject custodian: Department of Civil Engineering)
Introduction to law of contracts. Sale agreements and building contracts. Insolvency law. Insurance law. Dispute resolution. Companies. Close corporations and partnerships. Securities. Agency and representation. (Total tuition time: ± 42 hours)

CONCRETE TECHNOLOGY IV (CCN401T) 1 X 3-HOUR PAPER
(Subject custodian: Department of Civil Engineering)
Properties and materials. Production and supply. Special applications. Testing. (Total tuition time: ± 32 hours)

E

ENVIRONMENTAL MANAGEMENT FOR ENGINEERS: CIVIL IV (ENN401T) 1 X 3-HOUR PAPER
(Subject custodian: Department of Civil Engineering)
ISO 14000, environmental impact assessment, integrated environmental management, environmental audits, case studies and project. (Total tuition time: ± 32 hours)

F

FINANCIAL MANAGEMENT III (FMN301T) 1 X 3-HOUR PAPER (OPEN BOOK)
(Subject custodian: Department of Civil Engineering)
Tasks and terrain of the financial manager. The capital structure of the business. Capital budgeting and time management for money. Working capital policy. The budgetary policy. Financial analysis and planning. Inflation and its effects on financial decision-making. Taxation and its effects on financial decision-making. Dividend policy. Acquisitions, mergers, prediction of business failure. Issues and concepts in financial management. (Total tuition time: ± 32 hours)

I

INDUSTRIAL RELATIONS AND NEGOTIATION II (IRN201B) 1 X 3-HOUR PAPER
(Subject custodian: Department of Civil Engineering)
Industrial relations. Strike management. Negotiation and dispute handling in the following: 1. Contractor/client and contractor/subcontractor relations. 2. Contractor/professional team relations. 3. Management/personnel relations. 4. Project manager/other parties relations. (Total tuition time: ± 32 hours)

M

MANAGEMENT PRINCIPLES AND PRACTICE IV (MPP401B) 1 X 3-HOUR PAPER (OPEN BOOK)
(Subject custodian: Department of Civil Engineering)
Management approaches. The business environment. The functions of management. Decision-making and problem-solving. Strategic management. Management by objectives. Corporate communication. Small business management. International management. Politics, ethics and social responsibility. Case studies. (Total tuition time: ± 32 hours)



PROJECT MANAGEMENT: CIVIL IV (PJM401T)**1 X 3-HOUR PAPER (OPEN BOOK)*****(Subject custodian: Department of Civil Engineering)***

Planning of projects (civil and building). Project management. Quality and time management. Management systems. Computer applications. Project. (Total tuition time: ± 32 hours)

