

MAGISTER TECHNOLOGIAE: CONSTRUCTION MANAGEMENT

(Structured)

Qualification code: MTCUS0 - NQF Level 8

Campus where offered: Pretoria Campus (day classes and research)

Last year of new intake: 2016

Teach-out (phase-out) date: 31 December 2019

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 2016 Faculty Prospectus for the full contents of the qualification.

ATTENDANCE

| CODE | SUBJECT | CREDIT |
|--------------------------------------|--|--------------|
| CEC500T | Construction Economics V | (0,100) |
| CMN520T | Construction Management V | (0,200) |
| CRU500T | Research Report: Construction Management V | (0,500) |
| CRU500R | Research Report: Construction Management V (re-registration) | (0,000) |
| CRU501R | Research Report: Construction Management V (re-registration) (semester option) | (0,000) |
| DLM500T | Development Management V | (0,100) |
| RMD110H | Research Methodology | (0,100) |
| 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. On 8 August 2018, the syllabus content was defined as follows:

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CONSTRUCTION ECONOMICS V (CEC500T)

1 X 4-HOUR PAPER (OPEN BOOK)

(Subject custodian: Department of Building Sciences)

South African property law and taxation, property and facilities management, asset management, investment in capital projects, financing decisions, dividend decisions, property valuation and development. (Total tuition time: ± 180 hours)

CONSTRUCTION MANAGEMENT V (CMN520T)

1 X 4-HOUR PAPER (OPEN BOOK)

(Subject custodian: Department of Building Sciences)

Introduction to human resource management strategy, environmental issues, affirmative action, human resource development, productivity, creating a strategic organisation, creating a learning organisation. Human resource development and training, strategic industrial relations management, key success factors and measures, implementation of strategies, performance management. (Total tuition time: ± 180 hours)



D**DEVELOPMENT MANAGEMENT V (DLM500T)****1 X 4-HOUR PAPER (OPEN BOOK)****(Subject custodian: Department of Building Sciences)**

External environment and stakeholders, the logistics concept, strategic approaches to logistics, operations and material flow, elements of a supply chain, in-bound logistics, production requirements through purchasing, the production system, design and productivity, production planning and control, the impact of inventory on production, inventory management, out-bound logistics, operations management in service industries. (Total tuition time: ± 180 hours)

R**RESEARCH METHODOLOGY (RMD109M, RMD110H)****CONTINUOUS ASSESSMENT****(Module/Subject custodian: Department of Building Sciences)**

Study designs, proposal writing, sample size and power calculations, descriptive and univariate methods of data analysis such as descriptive statistics and graphs, one-sample tests and confidence intervals, two-sample tests and confidence intervals, Pearson's chi-square tests of association, multivariate methods of data analysis such as simple and multiple linear regression analysis, logistic regression analysis, qualitative research methods, use of commonly used statistical packages such as STATA, SPSS, NVIVO and ATLAS for quantitative and qualitative data analysis. (Total tuition time: ± 36 hours)

**RESEARCH REPORT: CONSTRUCTION
MANAGEMENT V (CRU500T/R, CRU501R)****MINI-DISSERTATION ASSESSMENT****(Subject custodian: Department of Building Science)**

Each student must identify an appropriate topic within the chosen discipline and prepare a proposal which must be approved by the Departmental Research Committee (DRC). Under the guidance of an assigned academic supervisor, the student must demonstrate an understanding of the conceptualisation of the research problem and critical review of the underlying theory and relevant literature. The student must design and explain the research methods used and demonstrate the application of appropriate tools of data analysis. Further discuss the results, make conclusions and recommendations. The research must follow a systematic and logical format accepted for academic research reporting norms and be written in a satisfactory language. (No formal tuition)

