

# MAGISTER TECHNOLOGIAE: PROFESSIONAL PRACTICE IN INFORMATION TECHNOLOGY (Structured)

Qualification code: MTPFS1 - NQF Level 8

Campus where offered: Soshanguve South Campus (evening classes and research)  
Last year of new intake: 2012  
Teach-out (phase-out) date: 31 December 2021

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](http://www.tut.ac.za).

## CURRICULUM

Consult the 2016 Faculty Prospectus for the full contents of the qualification.

### FIRST OR SECOND SEMESTER

CODE	SUBJECT	CREDIT
DIZ500T	Research Report: Professional Practice in Information Technology V (year subject)	(0,500)
DIZ501R	Research Report: Professional Practice in Information Technology V (re-registration)	(0,000)
III501T	Innovation in IT V	(0,080)
PRV511T	Professional Systems Engineering V	(0,080)
RMD511D	Research in Professional Practice in Information Technology V	(0,100)
SBG500T	Strategic Business Analysis and Modeling V (year subject)	(0,080)
TKM501T	Task Management V	(0,080)
<b>plus one of the following subjects:</b>		
DEV511T	Digital Enterprise V	(0,080)
KNT511T	Knowledge Technologies V	(0,080)
SPV511T	IT Services and Projects V	(0,080)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>1,000</b>

## 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:

### D

#### DIGITAL ENTERPRISE V (DEV511T)

#### CONTINUOUS ASSESSMENT

*(Subject custodian: Department of Informatics)*

An analysis of how businesses are changing in the digital era. (Total tuition time: ± 54 hours)



**I****INNOVATION IN IT V (III501T)****CONTINUOUS ASSESSMENT***(Subject custodian: Department of Computer Science)*

Principles of innovation in organisations. Application of IT for effective innovation. Principles of standardisation in IT. Innovation in relation to standardisation. (Total tuition time: ± 40 hours)

**IT SERVICES AND PROJECTS V (SPV511T)****CONTINUOUS ASSESSMENT***(Subject custodian: Department of Informatics)*

Understanding the character of managing IT department offering. (Total tuition time: ± 54 hours)

**K****KNOWLEDGE TECHNOLOGIES V (KNT511T)****CONTINUOUS ASSESSMENT***(Subject custodian: Department of Informatics)*

This subject deals with Knowledge engineering and technologies underpinning knowledge systems, such as decision support systems, group support systems, expert systems, data warehousing, data mining, document management and information searches. (Total tuition time: ± 54 hours)

**P****PROFESSIONAL SYSTEMS ENGINEERING V (PRV511T)****CONTINUOUS ASSESSMENT***(Subject custodian: Department of Computer Science)*

Knowledge and skills required to manage the development of IS by using workgroup products, ERP systems, customer relations, supply chain and quality management. (Total tuition time: ± 40 hours)

**R****RESEARCH IN PROFESSIONAL PRACTICE IN INFORMATION TECHNOLOGY V (RMD511D)****CONTINUOUS ASSESSMENT***(Subject custodian: Department of Computer Science)*

It covers the basics of paradigms, methodologies, and techniques of research. Also how to conceptualise and plan research, and structure and complete a research-based project in the form of a dissertation or thesis. It provides a holistic overview of the research process and practical methods of implementing the knowledge obtained in the information technology industry or environment. (Total tuition time: not available)

**RESEARCH REPORT: PROFESSIONAL PRACTICE IN INFORMATION TECHNOLOGY V (DIZ500T/DIZ501R)****MINI-DISSERTATION ASSESSMENT***(Subject custodian: Department of Computer Science)*

Syllabus content not available. Please contact the Head of Department.

**S****STRATEGIC BUSINESS ANALYSIS AND MODELLING V (SBG500T)****CONTINUOUS ASSESSMENT***(Subject custodian: Department of Informatics)*

Exploring issues surrounding the application of IT in order to define and implement strategic objectives. Reflecting on the purpose of strategic analysis, strategic planning and the application of tools and techniques during this process. (Total tuition time: not available)

**T****TASK MANAGEMENT V (TKM501T)****CONTINUOUS ASSESSMENT***(Subject custodian: Department of Informatics)*

The subject prepares students to acquire the knowledge and skills to handle the uncertainty of task management with specific reference to the features of information system projects and assessment of human behaviour and communication. (Total tuition time: ± 54 hours)

