

MAGISTER TECHNOLOGIAE: PROFESSIONAL PRACTICE IN INFORMATION TECHNOLOGY

(Structured)

Qualification code: MTPFS1 - NQF Level 8

Campus where offered: Soshanguve South Campus

Please note that a moratorium was placed on new intakes as from 2012 until further notice.

REMARKS

a. *Admission requirement(s):*

- Any four-year Baccalaureus Technologiae degree in Information Technology or an equivalent qualification from a South African university; **or**
- A non-information technology three-year degree, but with at least five years' practical experience in an information technology environment, coupled with some management or supervisory experience; **or**
- At least ten years' practical experience in a technical information technology environment, coupled with some management or supervisory experience. (It is acknowledged that many experienced information technology professionals who work in the industry do not have degrees. Therefore, if an information technology professional has a minimum of seven years' relevant practical experience and is able to prove his or her suitability (via an RPL procedure, as set out by the University and approved by the Head of the Department), they may be accepted for this programme.

A candidate should preferably have passed Principles of Research IV or a Research Methodology subject before registration, and if not, definitely have to pass that subject before their dissertations are accepted.

It is compulsory for all English second-language speakers to complete an English proficiency test. If a candidate's results for this test are unsatisfactory, he or she will have to complete an advanced short programme in English. Candidates have to pay for the programme themselves. A scientific writing programme, which forms part of the research report, will also be presented at the University.

Holders of any other equivalent South African or international qualification 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 equivalent of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability.

b. *Selection criteria:*

Selection is based on a personal interview with a departmental selection panel, and the approval of a study field with an acceptable research proposal idea, following the guidelines of the Postgraduate Policy and Procedures. These procedures will be fully explained to the prospective student during the personal interview.

c. *Duration:*

A minimum of one year and a maximum of three years.

d. *Presentation:*

Evening classes and research. Promotion is based on the assessment of taught subjects through practical work and an examination. If fewer than 15 students are enrolled for a specific subject, the Department may decide not to offer the subject.

e. *Exclusion and readmission:*

See Chapter 2 of Students' Rules and Regulations.



- f. *Rules on postgraduate studies:*
See Chapter 8 of the Students' Rules and Regulations for more information.
- g. *Class attendance:*
Subjects are offered at the location (Soshanguve South or Pretoria campuses) as determined by the Head of the Department.
- h. *Subject credits:*
Subject credits are shown in brackets after each subject.

CURRICULUM

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)
plus one of the following subjects:		
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:		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 23 August 2017, the syllabus content was defined as follows:

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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 the 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)

