

MAGISTER TECHNOLOGIAE: ARCHITECTURE: PROFESSIONAL

(Structured)

Qualification code: MTPSS0 - NQF Level 8

Campus where offered: Pretoria Campus (block-mode classes and research)

Last year of new intake: 2017

Teach-out (phase-out) date: 31 December 2020

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 2017 Faculty Prospectus for the full contents of the qualification.

FIRST YEAR

Subjects must be taken in combinations and in the sequence indicated. The following rules will apply:

* CHH500T and NSY500T must be taken concurrently.

** CSM500T and KME500T must be taken concurrently.

*** ACH500T and THD500T must be taken concurrently.

CODE	SUBJECT	CREDIT	PREREQUISITE SUBJECT(S)
ACH500T	Architectural Design V***	(0,150)	
AHC500T	Architectural Practice V	(0,040)	
ARA500T	Advanced Computer Applications V	(0,020)	
BMN500T	Business Management V	(0,040)	
CHH500T	Computer Hardware V*	(0,010)	
CSM500T	Construction Materials V**	(0,040)	
KME500T	Construction Methods V**	(0,040)	
NSY500T	Network Systems V*	(0,020)	
THD500T	Theory of Design V***	(0,040)	
TOTAL CREDITS FOR THE FIRST YEAR:		0,400	

SECOND YEAR

Subjects must be taken in the combinations and in the sequence indicated. The following rules will apply:

* CDO500T and SFN500T must be taken concurrently.

CODE	SUBJECT	CREDIT	PREREQUISITE SUBJECT(S)
ATG510T	Research Report: Architecture: Professional V	(0,500)	Architectural Design V
ATG510R	Research Report: Architecture: Professional V (re-registration)	(0,000)	
CDO500T	Contract Documentation V*	(0,060)	
CDO500R	Contract Documentation V* (re-registration)	(0,000)	
RMD500D	Research Methodology	(0,020)	
RMD500R	Research Methodology (re-registration)	(0,000)	
SFN500T	Specification V*	(0,020)	



SFN500R	Specification V* (re-registration)	(0,000)
TOTAL CREDITS FOR THE SECOND YEAR:		0,600
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 module. On 01 October 2019, the syllabus content was defined as follows:

A

ADVANCED COMPUTER APPLICATIONS V (ARA500T) **CONTINUOUS ASSESSMENT**
(Subject custodian: Department of Architecture and Industrial Design)
 Visual communication and presentation software, website design and maintenance. (Total tuition time: ± 24 hours)

ARCHITECTURAL DESIGN V (ACH500T) **CONTINUOUS ASSESSMENT**
(Subject custodian: Department of Architecture and Industrial Design)
 Design exercises with a quarterly focus on academic origin and teamwork, urban renewal and the multi-storey building, humble things and a mini-dissertation. (Total tuition time: ± 252 hours)

ARCHITECTURAL PRACTICE V (AHC500T) **CONTINUOUS ASSESSMENT**
(Subject custodian: Department of Architecture and Industrial Design)
 The services and duties of the professional practitioner of architecture as defined by the Architectural Profession Act, 2000 (Act No. 44 of 2000) and the SACAP Board Notice 154 of 2009 (the Code of Professional Conduct). Specific themes include time as a resource, managing projects and clients, as well as post-completion responsibilities. (Total tuition time: ± 21 hours)

B

BUSINESS MANAGEMENT V (BMN500T) **CONTINUOUS ASSESSMENT**
(Subject custodian: Department of Architecture and Industrial Design)
 Office organisation, including managing oneself, the team and the business of architecture. Marketing and generating an income while establishing new business avenues. (Total tuition time: ± 10 hours)

C

COMPUTER HARDWARE V (CHH500T) **CONTINUOUS ASSESSMENT**
(Subject custodian: Department of Architecture and Industrial Design)
 An overview of all the current terminology, concepts and basics of computing hardware. Hardware support and software support for different operating systems. (Total tuition time: ± eight hours)

CONSTRUCTION MATERIALS V (CSM500T) **CONTINUOUS ASSESSMENT**
(Module custodian: Department of Architecture)
 Contemporary materials for building applications based on case studies. (Total tuition time: ± 21 hours)

CONSTRUCTION METHODS V (KME500T) **CONTINUOUS ASSESSMENT**
(Subject custodian: Department of Architecture and Industrial Design)
 The performance criteria of detailing. Post-construction analyses using case studies. Building standards, specifically Part XA of SANS 10400. Intelligent buildings and building automation. Complex structures. (Total tuition time: ± 21 hours)

CONTRACT DOCUMENTATION V (CDO500T/R) **PROJECT ASSESSMENT**
(Subject custodian: Department of Architecture and Industrial Design)
 This module/subject is based on the design prepared as part of the research report. A selected portion of the design is developed in detail and technically resolved. It is presented as a set of design development drawings. (Total tuition time: ± 72 hours)



N**NETWORK SYSTEMS V (NSY500T)****CONTINUOUS ASSESSMENT**

(Subject custodian: Department of Architecture and Industrial Design)

Current and emerging networking hardware basics and terminology. Operating system set-up for networking. Data security and maintaining networks. Basic network-related software support skills. (Total tuition time: ± eight hours)

R**RESEARCH METHODOLOGY (RMD500D/R)****PROJECT ASSESSMENT**

(Subject custodian: Department of Architecture and Industrial Design)

Equipping students with the skills and knowledge of architectural research. Students will develop a research proposal, dissertation and a research paper/article. Students will learn about the administrative processes in the research process, how to identify research topics, how to define a research problem and its setting, how to plan a research project, including considering the funding implications of a project. Consider the design process and design thinking as a tool for managing the research process and tackle an architectural design problem through solving conflicting problems and investigating precedent studies. Technical aspects of developing a dissertation such as format, layout, numbering, bibliography and referencing systems. (Total tuition time: ± 15 hours)

**RESEARCH REPORT: ARCHITECTURE:
PROFESSIONAL V (ATG510T/R)****MINI-DISSERTATION ASSESSMENT**

(Subject custodian: Department of Architecture and Industrial Design)

Equipping students with the skills and knowledge needed towards the completion of an architectural project and presenting it in an exhibition and mini-dissertation. The production of the mini-dissertation is a studio-based procedure, led by supervisors, co-supervisors and design-supervisors, where activities are planned to address discipline- and industry-specific requirements. The course is student-centred and engenders independent, critical thinking and synthesis. Skills will be developed in research problem definition, design concept development and building design resolution leading up to the production of a refined final design, technical resolution and, detailing. Working in the design studio (under supervision of the course coordinator and assigned design supervisor) is compulsory. (Total tuition time: ± 420 hours)

S**SPECIFICATION V (SFN500T/R)****PROJECT ASSESSMENT**

(Subject custodian: Department of Architecture and Industrial Design)

An introduction to the National Building Specifications (NBS) software package (or other approved specification software). Preparation of on-screen specifications for the building industry. Integrated with technical resolution of design proposal. (Total tuition time: ± 15 hours)

T**THEORY OF DESIGN V (THD500T)****CONTINUOUS ASSESSMENT**

(Subject custodian: Department of Architecture and Industrial Design)

Architectural theory as a precursor to the built form. Formulating a normative position within the broad development of architectural theory. Research paper related to a specific field of interest. (Total tuition time: ± 42 hours)

