

# 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](http://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:		<b>0,400</b>	

### 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)	
SFN500T	Specification V*	(0,020)	
SFN500R	Specification V* (re-registration)	(0,000)	
TOTAL CREDITS FOR THE SECOND YEAR:		<b>0,600</b>	
TOTAL CREDITS FOR THE QUALIFICATION:		<b>1,000</b>	



## SUBJECT/MODULE 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 13 October 2017, the syllabus content was defined as follows:

### A

**ADVANCED COMPUTER APPLICATIONS V (ARA500T)** **CONTINUOUS ASSESSMENT**  
(Subject custodian: Department of Architecture)  
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)  
Design exercises with a quarterly focus on academic origin and teamwork, urban renewal and the multi-storey building, the architectural competition and a mini-theses. (Total tuition time: ± 252 hours)

**ARCHITECTURAL PRACTICE V (AHC500T)** **CONTINUOUS ASSESSMENT**  
(Subject custodian: Department of Architecture)  
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)  
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)  
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**  
(Subject 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)  
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)  
This 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****(Module/subject custodian: Department of Architecture)**

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)****PROJECT ASSESSMENT****(Subject custodian: Department of Architecture)**

Research methodology: scope and nature of the dissertation, administrative procedures, research topics, the problem and its setting, research proposals, applications for funding, research protocols and research planning. Design as a problem-solving process: formulation of design principles, solving conflicting requirements, precedent studies, design thinking and the evaluation of design. Technical structure of a dissertation: format, layout, numbering system, typography, bibliography and referencing. (Total tuition time: ± 15 hours)

**RESEARCH REPORT: ARCHITECTURE:****MINI-DISSERTATION****PROFESSIONAL V (ATG510T/R)****ASSESSMENT****(Subject custodian: Department of Architecture)**

Appraisal and definition: clarifying the problem statement and design objectives, formulating functional relationships, collecting information on the state of the art, formulating requirements and needs. Design concept: searching for conceptual solutions, producing alternative concepts, evaluating alternative solutions, determining the final conceptual form. Building design: producing a refined design, producing alternatives, technical evaluation, selecting the final design for detailed formulation. 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)**

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)**

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)

