

# MASTER OF ARCHITECTURE

(Qualification type: Structured Master's Degree)

Qualification code: MPAR18 - NQF Level 9 (180 credits)

CHE NUMBER: H/H16/E014CAN

Campus where offered:

Pretoria Campus

## REMARKS

a. *Admission requirement(s):*

A Baccalaureus Technologiae in Architectural Technology (Professional), or a Bachelor's degree in Architecture at NQF level 8, or a Bachelor's Honours degree in Architecture at NQF Level 8 obtained from an accredited South African university. The applicant should have an aggregate of 60% for the final-year of study.

Holders of any other equivalent South African or international qualification may also be considered, see Chapter 1 of Students' Rules and Regulations.

b. *Selection criteria:*

Selection is based on academic performance, the student enrolment plan, available capacity and the broadening of access. Applicants will be informed of their status per official letter from the Office of the Registrar, alternatively, they can check their application status on the TUT website, [www.tut.ac.za](http://www.tut.ac.za).

c. *Recognition of Prior Learning (RPL), equivalence and status:*

See Chapter 30 of Students' Rules and Regulations.

d. *Intake for the qualification:*

January only.

e. *Presentation:*

Day classes, scheduled contact sessions, block-mode classes and research. Classes and assessments may take place on Friday afternoons and/or Saturdays.

f. *Duration:*

A minimum of two years and a maximum of four years.

g. *Exclusion and readmission:*

See Chapter 2 of Students' Rules and Regulations.

h. *Rules on postgraduate studies:*

See Chapter 8 of Students' Rules and Regulations.

i. *Accreditation:*

This degree is accredited by the South African Council for the Architectural Profession (SACAP) for registration in the SACAP category of Candidate Architect. The degree is internationally validated through the Canberra Accord (CA). The CA facilitates the portability of educational credentials amongst participating member countries by recognising the similarity of professional architecture degrees. CA signatories include Canada, China, Korea, Mexico, South Africa, the USA and a further 35 countries represented by the Commonwealth Association of Architects (CAA).



## CURRICULUM

### FIRST YEAR

Upon first registration for this academic year, the following modules and their combinations must be taken concurrently:

- ACH109M and THD109M
- CSM109M and KME109M
- CHH109M and NSY109M

In the event of failing, non-completion and/or de-registering any of the above modules, the following rule(s) will apply:

- If THD109M has been passed previously, a student may continue with ACH109M.

CODE	MODULE	NQF-L	CREDIT	PREREQUISITE MODULE(S)
ACH109M	Architectural Design V	(9)	(27,0)	
AHC109M	Architectural Practice V	(9)	(7,0)	
ARA109M	Advanced Computer Applications V	(9)	(4,0)	
BMN109M	Business Management V	(9)	(7,0)	
CHH109M	Computer Hardware V	(9)	(2,0)	
CSM109M	Construction Materials V	(9)	(7,0)	
KME109M	Construction Methods V	(9)	(7,0)	
NSY109M	Network Systems V	(9)	(4,0)	
THD109M	Theory of Design V	(9)	(7,0)	
TOTAL CREDITS FOR THE FIRST YEAR:			<b>72</b>	

### SECOND YEAR

Upon first registration for this academic year, the following modules and their combinations must be taken concurrently:

- ARP209M and RMD209M
- ARP209M/R and CDO209M/R
- CDO209M/R and SFN209M/R

In the event of failing, non-completion and/or de-registering any of the above modules, the following rule(s) will apply:

- If RMD209M has been passed previously, a student may continue with ARP209M.

CODE	MODULE	NQF-L	CREDIT	PREREQUISITE MODULE(S)
ARP209M	Research Report: Architecture: Professional V	(9)	(90,0)	Architectural Design V
ARP209R	Research Report: Architecture: Professional V (re-registration)	(9)	(0)	
CDO209M	Contract Documentation V	(9)	(10,0)	
CDO209R	Contract Documentation V (re-registration)	(9)	(0)	
RMD209M	Research Methodology	(9)	(4,0)	
RMD209R	Research Methodology (re-registration)	(9)	(0)	
SFN209M	Specification V	(9)	(4,0)	
SFN209R	Specification V (re-registration)	(9)	(0)	
TOTAL CREDITS FOR THE SECOND YEAR:			<b>108</b>	
TOTAL CREDITS FOR THE QUALIFICATION:			<b>180</b>	



## 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 module. On 01 October 2019, the syllabus content was defined as follows:

### A

**ADVANCED COMPUTER APPLICATIONS V (ARA109M)** CONTINUOUS ASSESSMENT  
(Module custodian: Department of Architecture and Industrial Design)  
Visual communication and presentation software, website design and maintenance. (Total tuition time: ± 24 hours)

**ARCHITECTURAL DESIGN V (ACH109M)** CONTINUOUS ASSESSMENT  
(Module 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 (AHC109M)** CONTINUOUS ASSESSMENT  
(Module 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 (BMN109M)** CONTINUOUS ASSESSMENT  
(Module 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 (CHH109M)** CONTINUOUS ASSESSMENT  
(Module 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 (CSM109M)** CONTINUOUS ASSESSMENT  
(Module/Subject custodian: Department of Architecture)  
Contemporary materials for building applications based on case studies. (Total tuition time: ± 21 hours)

**CONSTRUCTION METHODS V (KME109M)** CONTINUOUS ASSESSMENT  
(Module 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 (CDO209M/R)** PROJECT ASSESSMENT  
(Module 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 (NSY109M)** CONTINUOUS ASSESSMENT  
(Module 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 (RMD209M/R)****PROJECT ASSESSMENT**

*(Module 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 (ARP209M/R)****MINI-DISSERTATION ASSESSMENT**

*(Module 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 module 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 programme coordinator and assigned design supervisor) is compulsory. (Total tuition time: ± 420 hours)

**S****SPECIFICATION V (SFN209M/R)****PROJECT ASSESSMENT**

*(Module 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 (THD109M)****CONTINUOUS ASSESSMENT**

*(Module 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)

