

# MASTER OF ARCHITECTURE IN ARCHITECTURAL TECHNOLOGY

(Qualification type: Structured Master's Degree)

Qualification code: MAAT18 - NQF Level 9 (180 credits)

SAQA ID: 100952, CHE NUMBER: H16/14238/HEQSF72470

Campus where offered:

Pretoria Campus

**Please note that this electronic Prospectus differs from the printed booklet.**

## REMARKS

**a. Admission requirement(s):**

A Baccalaureus Technologiae in Architectural Technology, at NQF Level 7 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:**

Candidates who do not meet the 60% minimum academic requirements, may be invited to appear before a Departmental Selection Committee for consideration. Further information regarding the process is available at the Department.

Admission will be subject to approval of a research topic by the Departmental Research Committee (DRC) and other relevant faculty committees.

**c. Duration:**

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

**d. Presentation:**

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

**e. Intake for the qualification:**

January only.

**f. Exclusion and readmission:**

See Chapter 2 of Students' Rules and Regulations.

**g. Rules on postgraduate studies:**

See Chapter 8 of Students' Rules and Regulations.

**h. Accreditation:**

This degree is accredited by the South African Council for the Architectural Profession (SACAP) for registration in the SACAP category of Candidate Senior Architectural Technologist. 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).

**i. Module credits:**

Module credits are shown in brackets after each module.



## CURRICULUM

### FIRST YEAR

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

- TDA109M and CSA109M.
- TDA109M and ESA109M.

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

- If CSA109M has been passed previously, a student may continue with TDA109M.

CODE	MODULE	NQF-L	CREDIT
CSA109M	Construction Materials and Methods	(9)	(18)
ESA109M	Environmental Science	(9)	(27)
PMA109M	Project Management	(9)	(18)
REM109M	Research Methodology V	(9)	(9)
REM109R	Research Methodology V (re-registration)	(9)	(0)
TDA109M	Technical Design Studio	(9)	(18)
TOTAL CREDITS FOR THE FIRST YEAR:			<b>90</b>

### SECOND YEAR

CODE	MODULE	NQF-L	CREDIT
ATG109M	Research Report: Architectural Technology: Technology V	(9)	(90)
ATG109R	Research Report: Architectural Technology: Technology V (re-registration)	(9)	(0)
TOTAL CREDITS FOR THE SECOND YEAR:			<b>90</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 8 August 2018, the syllabus content was defined as follows:

### C

#### CONSTRUCTION MATERIALS AND METHODS (CSA109M) (Module custodian: Department of Architecture)

#### CONTINUOUS ASSESSMENT

This module builds on an existing knowledge base to develop an in-depth understanding of contemporary building construction materials and methods. The performance criteria of detailing are studied alongside intelligent buildings and building automation. Resource efficiency, sustainable technologies and relevant building codes and standards are integrated in the various themes explored in the module. (Total tuition time: ± 84 hours)



**E****ENVIRONMENTAL SCIENCE (ESA109M)****CONTINUOUS ASSESSMENT***(Module custodian: Department of Architecture)*

This module focuses on the relationship between sustainable design and construction processes. Within the context of current sustainability agenda, relevant built environment technologies and their links with environmental sciences are explored. The module includes the application and critical understanding of BIM working processes and the software involved in the delivery of a BIM project. (Total tuition time: ± 56 hours)

**P****PROJECT MANAGEMENT (PMA109M)****CONTINUOUS ASSESSMENT***(Module custodian: Department of Architecture)*

This module addresses the core project management methods and practices required from the built environment professional. The complex environmental and legal framework within which professional service delivery takes place are investigated against the background of current office practices. (Total tuition time: ± 14 hours)

**R****RESEARCH METHODOLOGY V (REM109M/R)****PROJECT ASSESSMENT***(Module custodian: Department of Architecture)*

This module/subject explores the 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. The module includes the technical structure of a dissertation: format, layout, numbering system, typography, bibliography and referencing. The product of this module/subject is a well-formulated research proposal. (Total tuition time: ± 30 hours)

**RESEARCH REPORT: ARCHITECTURAL TECHNOLOGY: TECHNOLOGY V (ATG109M/R)****MINI-DISSERTATION ASSESSMENT***(Module custodian: Department of Architecture)*

The mini-dissertation investigates a relevant research problem. A review paper and a research paper based on the research have to be accepted for publication in a DHET accredited journal. (Total tuition time: ± 252 hours)

**T****TECHNICAL DESIGN STUDIO (TDA109M)****CONTINUOUS ASSESSMENT***(Module custodian: Department of Architecture)*

In this module, the design proposal of a real-world project has to be developed through all the documentation stages. This module involves applied research and uses a realistic professional commission to expose the student to a collaborative and multidisciplinary environment. (Total tuition time: ± 42 hours)

