

# 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/HEQSF

Campus where offered:

Pretoria Campus

## REMARKS

a. *Admission requirement(s):*

A Baccalaureus Technologiae in Architectural Design (Professional), or Baccalaureus Technologiae in Architectural Technology, or Bachelor's degree in Architectural Design (Professional), or Bachelor's degree in Architectural Technology, or Bachelor's Honours degree in Architectural Design (Professional), or Bachelor's Honours degree in Architectural Technology obtained from an accredited South African university. The applicant should have a minimum grade of 60% for each major subject in 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.

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. *Rules on postgraduate studies:*

See Chapter 8 of Students' Rules and Regulations.

g. *Duration:*

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

h. *Exclusion and readmission:*

See Chapter 2 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:

- TDO109M and CMR109M
- TDO109M 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 CMR109M has been passed previously, a student may continue with TDO109M.

CODE	MODULE	NQF-L	CREDIT
CMR109M	Construction Materials and Methods	(9)	(18)
ESA109M	Environmental Science	(9)	(27)
PMA109M	Project Management	(9)	(18)
RAT109M	Research Methodology V	(9)	(9)
RAT109R	Research Methodology V (re-registration)	(9)	(0)
TDO109M	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. At time of publication, the syllabus content was defined as follows:

### C

#### CONSTRUCTION MATERIALS AND METHODS (CMR109M)

#### CONTINUOUS ASSESSMENT

*(Module custodian: Department of Architecture and Industrial Design)*

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 and Industrial Design)*

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 and Industrial Design)*

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 (RAT109M/R)****PROJECT ASSESSMENT**

*(Module custodian: Department of Architecture and Industrial Design)*

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 and Industrial Design)*

The mini-dissertation investigates a relevant research problem. A review paper or 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 (TDO109M)****CONTINUOUS ASSESSMENT**

*(Module custodian: Department of Architecture and Industrial Design)*

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)

