

NATIONAL DIPLOMA: DENTAL TECHNOLOGY

Qualification code: NDDT96 - NQF Level 6

Campus where offered: Pretoria Campus (day classes)

Last year of new intake: 2019

Teach-out (phase-out) dates: 31 December 2023

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.

Key to asterisks:

* Information does not correspond to information in Report 151.

(Deviations approved by the Senate in August 2005.)

CURRICULUM

Consult the 2019 Faculty Prospectus for the full contents of the qualification.

FIRST YEAR

CODE	SUBJECT	CREDIT	PREREQUISITE SUBJECT(S)
ANT100T	Applied Dental Technology I	(0,170)	
CEN150T	Communication I	(0,080)	
DMS100T	Dental Materials Science I	(0,350)	
DTT100T	Dental Technology Theory I	(0,240)	

FIRST SEMESTER

TMY101T	Tooth Morphology I	(0,080)	
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SECOND SEMESTER

OAT101T	Oral Anatomy I	(0,080)	
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TOTAL CREDITS FOR THE FIRST YEAR: **1,000**

SECOND YEAR

CODE	SUBJECT	CREDIT	PREREQUISITE SUBJECT(S)
ANT200T	Applied Dental Technology II	(0,250)	Applied Dental Technology I Dental Materials Science I Dental Technology Theory I
DMS200T	Dental Materials Science II	(0,330)*	Applied Dental Technology I Dental Materials Science I Dental Technology Theory I
DTT200T	Dental Technology Theory II	(0,250)	Applied Dental Technology I Dental Materials Science I Dental Technology Theory I
JUR100T	Jurisprudence I	(0,170)	

TOTAL CREDITS FOR THE SECOND YEAR: **1,000**

THIRD YEAR

CODE	SUBJECT	CREDIT	PREREQUISITE SUBJECT(S)
ANT300T	Applied Dental Technology III	(0,200)	Applied Dental Technology II Dental Materials Science II Dental Technology Theory II



BNP110B	Business Practice I	(0,170)	
DMS300T	Dental Materials Science III	(0,350)	Applied Dental Technology II Dental Materials Science II Dental Technology Theory II
DTT300T	Dental Technology Theory III	(0,280)	Applied Dental Technology II Dental Materials Science II Dental Technology Theory II
TOTAL CREDITS FOR THE THIRD YEAR:		1,000	
TOTAL CREDITS FOR THE QUALIFICATION:		3,000	

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 subject. At time of publication, the syllabus content was defined as follows:

A

APPLIED DENTAL TECHNOLOGY I (ANT100T) PRACTICAL EVALUATION
(Subject custodian: Department of Sport, Rehabilitation and Dental Sciences)
 The manufacturing of all types of full dentures. The use and handling of materials and equipment that is important in prosthetic work. (Total tuition time: ± 544 hours)

APPLIED DENTAL TECHNOLOGY II (ANT200T) PRACTICAL EVALUATION
(Subject custodian: Department of Sport, Rehabilitation and Dental Sciences)
 The design and manufacture of all types of dentures, orthodontic appliances and mouth guards. These include clinical work received from the clinics. Full metal crowns, temporary crowns and posts are also constructed. (Total tuition time: ± 816 hours)

APPLIED DENTAL TECHNOLOGY III (ANT300T) PRACTICAL EVALUATION
(Subject custodian: Department of Sport, Rehabilitation and Dental Sciences)
 The construction of full metal crowns and bridges with acrylic veneers, as well as metal constructions for porcelain crowns, prosthetics, orthodontics and cobalt chrome. (Total tuition time: ± 850 hours)

B

BUSINESS PRACTICE I (BNP110B) 1 X 3-HOUR PAPER
(Subject custodian: Department of Sport, Rehabilitation and Dental Sciences)
 Basic accounting, as well as the layout of offices and the management and administration of a business. (Total tuition time: ± 68 hours)

C

COMMUNICATION I (CEN150T) 1 X 3-HOUR PAPER
(Subject custodian: Department of Applied Languages)
 Basic communication skills and professionalism. (Total tuition time: ± 68 hours)

D

DENTAL MATERIALS SCIENCE I (DMS100T) 1 X 3-HOUR PAPER
(Subject custodian: Department of Sport, Rehabilitation and Dental Sciences)
 Dental materials such as gypsum, wax, impression material, acrylics and abrasive and polishing agents. Basic chemistry and physics applicable to dental materials. (Total tuition time: ± 68 hours)

DENTAL MATERIALS SCIENCE II (DMS200T) 1 X 3-HOUR PAPER
(Subject custodian: Department of Sport, Rehabilitation and Dental Sciences)
 Dental materials such as inlay material. Dental alloys and physical properties of materials. Basic chemistry and physics that apply to dental materials. (Total tuition time: ± 68 hours)

DENTAL MATERIALS SCIENCE III (DMS300T) <i>(Subject custodian: Department of Sport, Rehabilitation and Dental Sciences)</i> A continuation of the study of dental materials. Implants, cross-infection and safety in the laboratory. Basic chemistry and physics that apply to dental materials. (Total tuition time: ± 68 hours)	1 X 3-HOUR PAPER
DENTAL TECHNOLOGY THEORY I (DTT100T) <i>(Subject custodian: Department of Sport, Rehabilitation and Dental Sciences)</i> Theory of the construction of full dentures. (Total tuition time: ± 136 hours)	1 X 3-HOUR PAPER
DENTAL TECHNOLOGY THEORY II (DTT200T) <i>(Subject custodian: Department of Sport, Rehabilitation and Dental Sciences)</i> Theory of the construction of orthodontic appliances, as well as partial dentures and full metal crowns and bridges, temporary crowns and posts. (Total tuition time: ± 102 hours)	1 X 3-HOUR PAPER
DENTAL TECHNOLOGY THEORY III (DTT300T) <i>(Subject custodian: Department of Sport, Rehabilitation and Dental Sciences)</i> Theory of crown and bridge work, including full metal crowns with acrylic veneers and metal constructions for porcelain crowns and bridges. (Total tuition time: ± 136 hours)	1 X 3-HOUR PAPER

J

JURISPRUDENCE I (JUR100T) <i>(Subject custodian: Department of Sport, Rehabilitation and Dental Sciences)</i> Legal aspects of dental technology in South Africa. (Total tuition time: ± 68 hours)	1 X 3-HOUR PAPER
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O

ORAL ANATOMY I (OAT101T) <i>(Subject custodian: Department of Sport, Rehabilitation and Dental Sciences)</i> The study of the bone structures, muscles, joints and nervous system of the human skull. (Total tuition time: ± 68 hours)	1 X 2-HOUR PAPER
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T

TOOTH MORPHOLOGY I (TMY101T) <i>(Subject custodian: Department of Sport, Rehabilitation and Dental Sciences)</i> The development, growth and formation of human teeth. (Total tuition time: ± 68 hours)	1 X 3-HOUR PAPER
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