

## NATIONAL DIPLOMA: DENTAL TECHNOLOGY

Qualification code: NDDT96 - NQF Level 6

Campus where offered: Pretoria Campus

### Important notification to new applicants:

No new applications will be accepted as from 2020. Students who enrolled for this qualification for the first time in 2017 (or thereafter), should note that it will not be possible to continue with any Baccalaureus Technologiae as from 2020, since it is being replaced by qualifications aligned with the newly-implemented Higher Education Qualification Sub-Framework. Potential students are advised to consult the University's website for any new qualifications which might not be published in this Prospectus.

### REMARKS

a. *Admission requirement(s) and selection criteria:*

• **FOR APPLICANTS WHO OBTAINED A SENIOR CERTIFICATE BEFORE 2008:**

**Admission requirement(s):**

A Senior Certificate or an equivalent qualification, with a pass at Standard Grade in one of the following minimum combinations: Mathematics and Physical Science or Mathematics and Biology or Physiology, or Physical Science and Biology or Physiology.

**Selection criteria:**

Selection is done in accordance with the South African Dental Technicians Council. Selection takes place in four steps. The weight of each step is given in brackets.

- Step 1: Academic performance (40%);
- Step 2: Potential assessment (20%);
- Step 3: Dexterity test (30%); and
- Step 4: Personal interview (10%).

• **FOR APPLICANTS WHO OBTAINED A NATIONAL SENIOR CERTIFICATE IN OR AFTER 2008:**

**Admission requirement(s):**

A National Senior Certificate with a bachelor's degree or a diploma endorsement, or an equivalent qualification, with an achievement level of at least 4 for English (home language or first additional language) and 3 for Mathematics or 4 for Mathematical Literacy and 3 for Life Sciences or 3 for Physical Sciences.

**Selection criteria:**

To be considered for this qualification, applicants must have an Admission Point Score (APS) of at least **19** (with Mathematics) or **20** (with Mathematical Literacy).

**Assessment procedures:**

Selection is done in accordance with the South African Dental Technicians Council. Selection takes place in four steps. The weight of each step is given in brackets.

- Step 1: Academic performance (40%);
- Step 2: Potential assessment (20%);
- Step 3: Dexterity test (30%); and
- Step 4: Personal interview (10%).

b. *Minimum duration:*  
Three years.

c. *Presentation:*  
Day classes.



- d. *Intake for the qualification:*  
January only.
- e. *Exclusion and readmission:*  
See Chapter 2 of Students' Rules and Regulations.
- f. *Recognition of Prior Learning (RPL), equivalence and status:*  
See Chapter 30 of Students' Rules and Regulations.
- g. *Other requirements:*
- Immunisation against Hepatitis B is compulsory.
  - Students should have access to computers and the Internet.
  - Students should register with the South African Dental Technicians Council; this will be done by the Department.
  - Students must obtain approved first-aid certificates to be admitted to the third-year examinations of the National Diploma. First-aid programmes are usually arranged by the Department.
  - Faculty and statutory rules and regulations will apply to students who register for this qualification. It is the responsibility of the students to familiarise themselves with these rules and regulations.
  - In addition to tuition fees and textbooks, an amount of approximately R30 000 for personal instruments will be required. These will remain the property of the student. Students are responsible for purchasing these instruments themselves.
- h. *Special qualification rules:*  
Special qualification rules apply, and students who register for this qualification will receive the rules with their letter of acceptance. It is the students' own responsibility to familiarise themselves with those rules.
- i. *Subject credits:*  
Subject credits are shown in brackets after each subject.

Key to asterisks:

- \* Information does not correspond to information in Report 151.  
(Deviations approved by the Senate in August 2005.)

## CURRICULUM

### 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:	<b>1,000</b>		
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**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:		<b>1,000</b>	

**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:		<b>1,000</b>	
TOTAL CREDITS FOR THE QUALIFICATION:		<b>3,000</b>	

**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. On 01 August 2018, 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)****1 X 3-HOUR PAPER****(Subject custodian: Department of Sport, Rehabilitation and Dental Sciences)**

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)

**DENTAL TECHNOLOGY THEORY I (DTT100T)****1 X 3-HOUR PAPER****(Subject custodian: Department of Sport, Rehabilitation and Dental Sciences)**

Theory of the construction of full dentures. (Total tuition time: ± 136 hours)

**DENTAL TECHNOLOGY THEORY II (DTT200T)****1 X 3-HOUR PAPER****(Subject custodian: Department of Sport, Rehabilitation and Dental Sciences)**

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)

**DENTAL TECHNOLOGY THEORY III (DTT300T)****1 X 3-HOUR PAPER****(Subject custodian: Department of Sport, Rehabilitation and Dental Sciences)**

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)

**J****JURISPRUDENCE I (JUR100T)****1 X 3-HOUR PAPER****(Subject custodian: Department of Sport, Rehabilitation and Dental Sciences)**

Legal aspects of dental technology in South Africa. (Total tuition time: ± 68 hours)

**O****ORAL ANATOMY I (OAT101T)****1 X 2-HOUR PAPER****(Subject custodian: Department of Sport, Rehabilitation and Dental Sciences)**

The study of the bone structures, muscles, joints and nervous system of the human skull. (Total tuition time: ± 68 hours)



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**TOOTH MORPHOLOGY I (TMY101T)**

**1 X 3-HOUR PAPER**

*(Subject custodian: Department of Sport, Rehabilitation and Dental Sciences)*

The development, growth and formation of human teeth. (Total tuition time: ± 68 hours)

