The above department offers two programmes:

DENTAL TECHNOLOGY
DENTAL ASSISTING

This handbook offers information on both programmes
WHAT IS A UNIVERSITY OF TECHNOLOGY?
A university of technology is characterized by being research informed rather than research driven where the focus is on strategic and applied research that can be translated into professional practice. Furthermore, research output is commercialized thus providing a source of income for the institution. Learning programmes, in which the emphasis on technological capability is as important as cognitive skills, are developed around graduate profiles as defined by industry and the professions.

IMPORTANT NOTICES
The rules in this departmental handbook must be read in conjunction with the General Rules (G Rules) contained in the DUT General Handbook for Students as well as the relevant subject Study Guides.
Your attention is specifically drawn to Rule G1 (8), and to the process of dealing with students’ issues.

NOTE TO ALL REGISTERED STUDENTS
Your registration is in accordance with all current rules of the Institution. If, for whatever reason, you do not register consecutively for every year/semester of your programme, your existing registration contract with the Institution will cease. Your re-registration anytime thereafter will be at the discretion of the institution and, if permitted, will be in accordance with the rules applicable at that time.
Vision: The vision of the Faculty of Health Sciences at the Durban University of Technology is to be a leading Faculty in transformative and innovative education for health professionals, guided by National imperatives and a strong commitment to socially responsive education. We will strive to excellence in professional and teaching scholarship, as well as in the development of National and global linkages in education, and in the research and development of health.

Mission Statement: Within a value-driven centered ethos, the Faculty is committed to develop, quality health professionals that are practice oriented; receptive and responsive to health care needs of the people of South Africa and Africa as a whole. This will be achieved by providing the highest standards of learning, teaching, research, and community engagement, underpinned by a commitment to creating space for students and staff to succeed.

Goals
The Faculty aims to:
1. Respond to the National health human resource and industry needs within the health sector.
2. Ensure the offering of entrepreneurial and leadership skills as a core component of all programmes within the Faculty of Health Sciences.
3. Continue to develop community-based projects to foster social responsibility through collaborative projects between programmes.
4. Enhance established quality management frameworks to support teaching and learning.
5. Develop applied research responsive to community and industry needs.
6. Develop mechanisms for the dissemination and application of research outcomes to inform teaching and learning, assessment, community engagement and further research.
7. Improve research participation and output through increased post-graduate student enrolment, publications and establishment of research groups.
8. Enable the generation of third-stream income through research and innovation (patents / artifacts) in order to supplement existing sources of income for the next five years.
9. Attract and retain diverse quality staff, while promoting advancement of individual potential.
10. Position DUT Health Sciences nationally.
Values
The Faculty is guided by the following core values:
- Transparency, openness, honesty, and shared governance
- Professional and personal respect for others
- Educational relevance, equity and transformation (curriculum, access and success)
- Loyalty, accountability, dignity and trust

DEPARTMENTAL MISSION & GOALS

Department of Dental Sciences mission:
The Department of Dental Sciences will constantly strive to:-
- Provide the best Dental Technology and Dental Assisting educational training on the African continent.
- Be an educational leader in our fields.
- Provide holistic education in preparing students practically for the working environment.
- Enhance the development of Dental Technology and Dental Assisting as a profession in South Africa.
- Develop our research base so as to be the leading Dental Technology and Dental Assisting research institution in Africa.
- Develop community outreach programmes that serve the indigent population of Africa.

Department goals:
1. Providing our students with the highest level of tertiary education in the teaching of our disciplines.
2. Promoting research, initiating, supporting and undertaking research in the Dental field.
3. Providing community service to the indigent population especially in specialized fields where this service is not available to the communities.
4. Striving towards excellence in all our activities.
5. Maintaining the highest ethical standards in our relationships with our students as well as the dental community at large.
6. Promoting the spirit of free enterprise and initiative.
7. Working actively with the local Dental industry in KwaZulu-Natal.
8. Employing Dental Technology lecturing staff with high academic qualifications.
## CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>DEPARTMENTAL &amp; FACULTY CONTACT DETAILS</td>
<td>1</td>
</tr>
<tr>
<td>2.</td>
<td>STAFFING</td>
<td>2</td>
</tr>
<tr>
<td>3.</td>
<td>DEPARTMENTAL INFORMATION &amp; RULES</td>
<td>3</td>
</tr>
<tr>
<td>4.</td>
<td>NATIONAL DIPLOMA: Dental Technology</td>
<td>7</td>
</tr>
<tr>
<td>4.1</td>
<td>Programme Information</td>
<td>7</td>
</tr>
<tr>
<td>4.2</td>
<td>Learning Programme Structure</td>
<td>7</td>
</tr>
<tr>
<td>4.3</td>
<td>Programme Rules</td>
<td>8</td>
</tr>
<tr>
<td>4.3.1</td>
<td>Minimum Admission Requirements</td>
<td>8</td>
</tr>
<tr>
<td>4.3.2</td>
<td>Selection Processes</td>
<td>8</td>
</tr>
<tr>
<td>4.3.3</td>
<td>Pass Requirements</td>
<td>9</td>
</tr>
<tr>
<td>4.3.4</td>
<td>First Aid Certificate</td>
<td>14</td>
</tr>
<tr>
<td>4.3.5</td>
<td>Re-registration Rules</td>
<td>14</td>
</tr>
<tr>
<td>4.3.6</td>
<td>Exclusion Rules</td>
<td>14</td>
</tr>
<tr>
<td>4.3.7</td>
<td>Interruption of Studies</td>
<td>14</td>
</tr>
<tr>
<td>4.3.8</td>
<td>Materials Purchases</td>
<td>14</td>
</tr>
<tr>
<td>4.3.9</td>
<td>Vaccinations</td>
<td>15</td>
</tr>
<tr>
<td>5.</td>
<td>NATIONAL DIPLOMA: DENTAL TECHNOLOGY: EXTENDED CURRICULUM PROGRAMME (ECP) (NDTF1)</td>
<td>15</td>
</tr>
<tr>
<td>5.1</td>
<td>Programme Information</td>
<td>15</td>
</tr>
<tr>
<td>5.2</td>
<td>Learning Programme Structure</td>
<td>15</td>
</tr>
<tr>
<td>5.3</td>
<td>Programme Rules</td>
<td>15</td>
</tr>
<tr>
<td>5.3.1</td>
<td>Entrance Requirements</td>
<td>16</td>
</tr>
<tr>
<td>5.3.2</td>
<td>Selection Criteria</td>
<td>16</td>
</tr>
<tr>
<td>5.3.3</td>
<td>Pass Requirements</td>
<td>17</td>
</tr>
<tr>
<td>5.4</td>
<td>Subject Content (National Diploma: Dental Technology and Extended)</td>
<td>17</td>
</tr>
<tr>
<td>Section</td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.2.7 Duration of Studies</td>
<td>49</td>
<td></td>
</tr>
<tr>
<td>8.2.8 Interruption of Studies</td>
<td>49</td>
<td></td>
</tr>
<tr>
<td>8.3 Learning Programme Structure</td>
<td>49</td>
<td></td>
</tr>
<tr>
<td>8.4 Subject Content</td>
<td>49</td>
<td></td>
</tr>
<tr>
<td>9 DOCTOR OF TECHNOLOGY: DENTAL TECHNOLOGY</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>9.1 Programme Information</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>9.2 Programme rules</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>SECTION B: DENTAL ASSISTING</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 HIGHER CERTIFICATE: Dental Assisting</td>
<td>51</td>
<td></td>
</tr>
<tr>
<td>10.1 Programme Information</td>
<td>51</td>
<td></td>
</tr>
<tr>
<td>10.2 Learning Programme Structure</td>
<td>51</td>
<td></td>
</tr>
<tr>
<td>10.3 Programme Rules</td>
<td>51</td>
<td></td>
</tr>
<tr>
<td>10.3.1 Minimum Admission Requirements</td>
<td>52</td>
<td></td>
</tr>
<tr>
<td>10.3.2 Selection Criteria</td>
<td>52</td>
<td></td>
</tr>
<tr>
<td>10.3.3 Pass Requirements</td>
<td>53</td>
<td></td>
</tr>
<tr>
<td>10.3.4 Uniform</td>
<td>53</td>
<td></td>
</tr>
<tr>
<td>10.3.5 First Aid Certificate</td>
<td>53</td>
<td></td>
</tr>
<tr>
<td>10.3.6 Hepatitis B</td>
<td>53</td>
<td></td>
</tr>
<tr>
<td>10.3.7 Duration of programme</td>
<td>53</td>
<td></td>
</tr>
<tr>
<td>10.3.8 Exclusion Rules</td>
<td>53</td>
<td></td>
</tr>
<tr>
<td>10.3.9 Interruption of Studies</td>
<td>53</td>
<td></td>
</tr>
<tr>
<td>10.4 Subject Content</td>
<td>53</td>
<td></td>
</tr>
</tbody>
</table>
I. DEPARTMENTAL & FACULTY CONTACT DETAILS

All departmental queries to:

Secretary: Ms Rani Sukhu
Tel No: (031)-3732044
Fax No: (031)-3732047
Email: sukhui@dut.ac.za
Location of Department Gate 8, Steve Biko Rd, Ritson Campus, Mansfield School

Admin Assistant:
(Dental Assisting) Ms Kerusha Pillay
Tel No: (031)-3735356
Fax No: (031)-3736401
Email: kerushap@dut.ac.za
Location of Department Main Gate, ML Sultan Rd, ML Sultan Campus, AH0005C

All Faculty queries to:

Acting Faculty Officer: Mrs Phindokuhle Khoza
Tel No: (031)-3732446
Fax No: (031)-3732407
Email: nonkululekok@dut.ac.za
Location: Health Sciences Faculty Office, Gate 8, Steve Biko Road, Mansfield Site Area, Ritson Campus

Executive Dean: Professor N Sibiya
Executive Dean’s Secretary: Mrs Bilkish Khan
Tel No: (031)-3732704
Fax No: (031)-3732620
Email: bilkishk@dut.ac.za
Location: Executive Dean’s Office, 8, Steve Biko Road, Mansfield Site Area, Ritson Campus
2. STAFFING

Head of Programmes Mrs S Naidoo, Master of Applied Sciences (MRT)(Uni-Syd), BTech: Rad: Nuclear Medicine, NDip: Rad: Diagnostic, HDip: Ed. Technical (Rad)

Senior Lecturer: Dr A Vahed, DTech: Quality (DUT), Reg Dental Tech

Lecturers Ms M M P Zondi, MTech: Dent Tech (DUT), Reg Dental Tech
Mr MJ Radebe, MBA (MANCOSA)
Dr V Gareeb, BDS (MEDUNSA) (Acting)
Mr T Gumbi, MHSc: Dental Technology (DUT), Reg Dental Tech

Specialist Instructors Ms P Rattan, BTech: Dental Tech (TN), Reg Dental Tech

Technician Post Vacant

Secretary Dental Sciences Ms R Sukhu, B Tech Commercial Administration (ML)

Admin Assistant Dental Assisting Ms K Pillay

Senior Technical Assistant Ms W Allison

Admin Assistant Mr M Ndebele
3. DEPARTMENTAL INFORMATION & RULES

3.1. Programmes offered by the department

This department offers two programmes, namely
- Dental Technology
- Dental Assisting

3.2. Qualifications offered by the department

Learning programmes are offered in this Department which will, upon successful completion, lead to the award of the following qualifications:

<table>
<thead>
<tr>
<th>Qualification</th>
<th>Qual Code</th>
<th>SAQA NLRD Number</th>
<th>Important Dates</th>
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<tbody>
<tr>
<td>ND: Dental Technology</td>
<td>NDDNTI</td>
<td>72222</td>
<td>Teach Out 2019</td>
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<tr>
<td>ND: ECP: Dental Technology</td>
<td>NDDTFI</td>
<td>72222</td>
<td>Teach Out 2019</td>
</tr>
<tr>
<td>BTech: Dental Technology</td>
<td>BTDNTI</td>
<td>72124</td>
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<td>BHSc: Dental Technology</td>
<td>MHDNTI</td>
<td>72095</td>
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<tr>
<td>MSc: Dental Technology</td>
<td>DTDNTI</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HC: Dental Assisting</td>
<td>HCDNA</td>
<td>73492</td>
<td></td>
</tr>
</tbody>
</table>

3.3. Departmental information

3.3.1. Academic Integrity

Please refer to the General Rules pertaining to academic integrity G13 (1)(o). These will be enforced wherever necessary to safeguard the worthiness of our qualifications, and the integrity of the Faculty of Health Sciences at the DUT.

3.3.2. Code of Conduct for students

In addition to the General Rules pertaining to Conduct SR3 (3), a professional code of conduct pertaining to behavior, appearance, personal hygiene and dress shall apply to all students registered with the Faculty of Health Sciences, at all times. Students are not allowed to perform private work for patients or dentists, or any other dental professional. This aligns with No. 17 of Section 1.16 of SADTC ACT.

3.3.3. Uniforms

Students must adhere to instructions regarding specific uniforms required during practical's and clinic sessions.

3.3.4. Attendance

Students are encouraged to achieve hundred percent (100%) attendance for all planned academic activities as these are designed to provide optimal support for the required competency. Where absence is unavoidable, the student must timeously advise the department of the reason. Only exceptional reasons will be accepted for absence from guest lectures, industry or field trips. Poor attendance records may lead to penalties.
3.3.5. **Health and Safety**

Students must adhere to all Health and Safety regulations both while at DUT and in WPBL (Workplace Based Learning) placements. Failure to do so will be treated as a breach of discipline.

3.4. **Departmental Rules**

3.4.1. **Registration**

The final date for late registration for the Dental Technology and Dental Assisting Programme will be fifteen (15) working days after the official commencement of lectures.

3.4.2. **Discipline**

Rules of conduct pertaining to a specific laboratory as instituted by the Head of this Department shall apply to all students registered for the particular subject.

- **Material Wastage**

Students found to be wasting materials will be disciplined in terms of completing several hours of community service.

- **General Disciplinary Issues**

The Head of Department shall have the right to constitute an internal disciplinary tribunal should he/she deem this necessary. The authority of the internal disciplinary tribunal shall be limited to cleaning duties or community work.

- **Equipment**

**Equipment Damage**: students found to have willfully damaged any equipment will be charged the full amount of the repair / replacement.

**Issued Equipment**: students will be allocated departmental equipment for the duration of the year. It is the student’s responsibility to take care of the said equipment. Any equipment, lost, stolen or damaged will be to the account of the student to whom the equipment was issued.

Please note: the department supplies lockers for the safe-guarding of equipment. The student is required to pay R200.00 holding fee. Each student is to ensure that they have their own equipment and instruments to complete the practical tasks. There will be consequences to those students who are NOT compliant.

- **Laboratory and/or Clinic Cleaning**

Students are required to clean laboratories and/or clinics at the end of the teaching day as well as to be present at general cleaning every Wednesday Afternoon (Dental Assisting) and every Thursday afternoon (Dental Technology). Failure to be present will result in the student cleaning his/her laboratory or all the laboratories/clinic (up to one week) of the department of Dental Sciences or community work. Students transgressing this rule for a third or more time will be referred to the Registrar Academic for institutional
disciplinary action. In those instances where discipline is of a serious nature or that the student concerned has been found guilty of a similar offence, the matter will be referred to the DUT’s disciplinary tribunal.

• **DRESS CODE**

It is a requirement of the Health and Safety Act, (No.85/1993) that dust masks and eye protection be worn when working with machinery. Students not complying will be disciplined. Laboratory coats and closed shoes should be worn at all appropriate times.

• **ABSENTEEISM**

Lecturer will appreciate 100% attendance. Non-attendance will negatively impact on student performance in subjects.

3.4.3. **Workplace Based Learning (WPBL)**

The Department of Dental Sciences requires the student to undergo a period of experiential learning as part of the programme (Dental Technology and Dental Assisting). All prescribed subjects and the prescribed experiential component must be passed in order to obtain sufficient credits to qualify for the qualification. Although the Institution undertakes to assist the student in obtaining suitable experiential learning placement, the onus is on the student to attempt to find an “employer”. The employer must be accredited by the Institution for the purposes of experiential learning.

An experiential learning agreement creates a separate contract between the “employer” and the student.

Students registered for **Applied Dental Technology II** are required to provide the department with proof of having completed 10 days of Workplace Based Learning at a commercial dental laboratory.

Students registered for **Applied Dental Technology III** are required to provide the department with proof of having 20 days of Workplace Based Learning at a commercial laboratory.

The necessary forms, to be completed by the student and the laboratory owner, are obtainable from the Secretary and must be returned no later than the first day of the fourth term. The department may, at its discretion, allocate teaching time for this exercise, but this will not exceed 10 teaching days for 3rd year students and 5 teaching days for 2nd year students.

An additional fee, for third year students only, is payable to the Institution for Workplace Based learning registration.
3.4.4. **Handing in of work and assignments that are submitted late**
Assignments that are not handed in on due date and time will be penalized. Students are reminded that assignments are given well in advance and that last minute problems can be avoided by completing assignments before the due date. **See discipline-specific study guides for further details.**

3.4.5. **Dental Clinic**
The Department of Dental Sciences operates a Dental Clinic for the training of Dental Technology and Dental Assisting students.

Dental Technology - Work generated by this clinic is handed to students to complete. Please note that the completion of this work is compulsory. The work completed by students for the clinic may be evaluated and the marks obtained by the student may be used in the determination of a student’s year mark.

Dental Assisting - Students are expected to assist the clinician with all procedures.

3.4.6. **Special Tests and Condonement**
Summative means all assessment marks that contribute to the final mark of a subject, but not including examinations for the purpose of this rule.
If a student misses a summative written, oral or practical test, **for reasons of illness**, a special test may be granted if the student provides a valid medical certificate specifying the nature and duration of the illness, and a declaration that for health reasons it was impossible for the student to sit for the test. This certificate must be submitted to the subject lecturer, no later than one week after the date of the missed test.
Any student who misses an assessment test, and any student who qualifies for a rewrite but fails to write it, will be scored a zero mark for the missed assessment.

3.4.7. **Registration with the Professional Board: Dental Technology Students**
In addition to the requirements of the General Rules (see Rule G3) a student who registers for the National Diploma in Dental Technology or Bachelor of Health Sciences in Dental Sciences or Postgraduate qualification in Dental Technology (practicing as a Dental Technician or Dental Technologist) shall be registered as a Student Dental Technician and must conform to the requirements as laid down by the South African Dental Technicians Council in the Dental Technicians Act, 1979.
A graduate, on successful completion of the National Diploma in Dental Technology, and who has satisfied the requirements of the South African Dental Technicians Council shall be recognized by the South African Dental Technicians Council as qualified for registration as a dental technician. The said qualification shall entitle the holder thereof to practice a profession as a Dental Technician, however only in the capacity of employee.
A graduate, on successful completion of the BTech Degree in Dental
Technology, and who has satisfied the requirements of the South African Dental Technicians Council shall be recognized by the South African Dental Technicians Council as qualified for registration as a Dental Technologist. The said qualification shall entitle the holder thereof to practice a profession as a Dental Technologist, in the capacity of employer.

A graduate on successful completion of the Bachelor of Health Sciences in Dental Sciences, and who has satisfied the requirements of the South African Dental Technicians Council shall be recognized by the South African Dental Technicians Council as qualified for registration as a Dental Technologist.

No student who is in fee default with the Institution will be registered with the South African Dental Technicians Council until such time as his/her fees are paid up in full. This must be completed within five years of obtaining your qualification.

3.4.8. Registration with the Professional Board: Dental Assisting Students

In addition to the requirements of the General Rules (see Rule G3) a student who registers for the National Certificate in Dental Assisting shall be registered as a Student Dental Assistant and must conform to the requirements as laid down by the Health Professionals Council of South Africa.

A graduate, on successful completion of the National Certificate in Dental Assisting, and who has satisfied the requirements of the Health Professionals Council of South Africa shall be recognized by the Health Professionals Council of South Africa as qualified for registration as a Dental Assistant.

No student who is in fee default with the Institution will be registered with the Health Professionals Council of South Africa until such time as his/her fees are paid up in full.

3.4.9 Appeals

Rule G1 (8) refers:

Any student wishing to appeal against:

(a) The implementation of an Institutional Rule must do so in the first instance to the relevant Head of Department;

(b) The decision of a Head of Department must do so via the relevant Executive Dean to the Faculty Board or a delegated Committee of the Faculty Board. The decision of the Faculty Board or a delegated Committee of the Faculty Board is final and no further appeals will be considered thereafter.

(Amended w.e.f. 2009/01)

4. NATIONAL DIPLOMA: DENTAL TECHNOLOGY

4.1 Programme information

A diploma in Dental Technology enables a qualified dental technician to work as a dental laboratory employee upon registration with the South African Dental Technicians Council (SADTC). A final practical assessment is
conducted, in the concluding year of the programme, which, if completed successfully, enables the qualified student to register with the SADTC. Certain subjects in this programme do not have a final examination. The results for these subjects are determined through a weighted combination of assessments. As such, there are no supplementary examinations. Students are encouraged to work steadily through the period of registration in order to achieve the highest results possible. Assessment details are listed under each subject at the back of this handbook. Moderation follows the DUT requirements.

4.2 Learning Programme Structure

**National Diploma: Dental Technology**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subjects</th>
<th>Year of Study</th>
<th>CA/E</th>
<th>Credits</th>
<th>Pre-requisite</th>
<th>Co-req</th>
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<td>OANA101</td>
<td>Oral Anatomy I</td>
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<td>DTTH211</td>
<td>Dental Technology Theory II (Mod 1) (Crown/Bridge &amp; Orthodontics)</td>
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<td>CA</td>
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<td>Dental Materials Science II, Oral Anatomy, Dental Technology Theory II</td>
<td></td>
</tr>
<tr>
<td>DTTH311</td>
<td>Dental Technology Theory III (Mod 1)</td>
<td>3</td>
<td>CA</td>
<td>0.140</td>
<td>Dental</td>
<td></td>
</tr>
</tbody>
</table>
In addition to Rule G7 the minimum entrance requirement for entry into the programme of study is a National Senior Certificate (NSC) with endorsement for degree entry with the following subjects:

<table>
<thead>
<tr>
<th>Subject</th>
<th>NSC Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (home) OR English (1st additional)</td>
<td>3</td>
</tr>
<tr>
<td>Physical Sciences OR Mathematics OR Mathematics Literacy</td>
<td>3</td>
</tr>
<tr>
<td>And two 20 credit subjects (not more than one language)</td>
<td>6</td>
</tr>
</tbody>
</table>

The minimum requirement for holders of the Senior Certificate is matriculation exemption with the following subjects at the stated ratings:

<table>
<thead>
<tr>
<th>Compulsory Subjects</th>
<th>HG</th>
<th>SG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics OR Physical Science</td>
<td>E</td>
<td>C</td>
</tr>
</tbody>
</table>

The latter also applies to National Certificate (Vocational) level 4 candidates. The DUT General Rules G7 (3) will apply for admission requirements based upon Work Experience, Age and Maturity and Recognition of Prior Learning. The DUT’s Admissions Policy for International Students and General Rules G4 and G7 (5) will apply for admission of International students.
4.3.2. Selection Processes
In accordance with Rule G5, acceptance into the programme is limited to 28 places. As more qualifying applications are received than can be accommodated, the following selection process will determine placement in the programme:

All applicants must apply through the Central Applications Office (CAO). Initial shortlisting for selection is based on the applicant's academic performance in Grade 12 (Grade 12 June / trial marks will be used for current matriculants) together with a submission of a portfolio. Shortlisted students will then be invited to undergo placement testing. Applicants who pass the placement tests are invited for an interview. Provisional acceptance is given to selected applicants awaiting National Senior Certificate (NSC) results. If the final Grade 12 NSC results do not meet the minimum entrance requirements, this provisional acceptance will be withdrawn. Final selection for placement will be based on results in the SC / NSC and DUT placement tests.

4.3.3. Pass Requirements
Notwithstanding the DUT pass requirements (G14 and G15), and those detailed as follows, students are encouraged to apply themselves to their learning, and strive for the best academic results possible in order to adequately prepare themselves for their future careers, and to maximize possible employment opportunities. In line with SADTC requirements, students must complete their National Diploma qualification within five years.

4.3.3.1. A student Dental Technician shall not be permitted to continue with Dental Technology Theory II and III; Dental Material Science II and III; and Applied Dental Technology II and III unless the student has passed the preceding level. (Consistent with Dental Technicians Act, 1979. Reg 21(2))

4.3.3.2. Tooth Morphology is a prerequisite for Applied Dental Technology II.

4.3.3.3. Oral Anatomy is a prerequisite for Applied Dental Technology III.

4.3.3.4. Continuous Evaluation Subject Rules
Please refer to 4.1 Learning Programme Structure to identify the subjects/modules, which are evaluated by Continuous Assessment. Examinations will not be written in these subjects/modules. All modules will need to be passed in the same academic year. See “Subject Content” for further information as well as specific Study Guides, which contain specific rules for each subject.

Any numbers of tasks may form the class work marks. This is solely dependent on the discipline-specific lecturer in charge of the different sections. Formal tests will be held during the year. These will be held as and when necessary.

Students failing formative class work and assessments are encouraged to repeat exercises to improve their performance. Summative classwork and assessments are exempt from a re-submission.
4.3.3.5. Examination Subject Rules

Please refer to 4.1 Learning Programme Structure to identify the subjects / modules, which are evaluated by Examination.

A 40% year mark is required to enter the examination for each module for the above subjects.

A final pass mark of 50% is required for each module for the above subjects.

The examination for Module 1 is written during the mid-year examination period and for Module 2, during the year-end examination period.

A student failing Module 1 and Module 2 will be permitted supplementary examinations provided that the results obtained comply with the supplementary examination rules as contained in rule G13 (3).

A student must pass both modules in one academic year failing which the student will be required to re-register for both modules.

4.3.3.6. Rules for Dental Technology Theory II and Dental Technology Theory III

Both subjects run for the entire year (annual)

Both subjects consist of 2 modules each containing 2 study units:

- Module 1: Study Unit 1 —Crown and Bridge and Study Unit 2: Orthodontics;
- Module 2: Study Unit 1 —Chrome and Study Unit 2: Prosthetics

Final marks for each study unit will be determined as follows:

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Weighting</th>
<th>Sub minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test 1</td>
<td>15%</td>
<td></td>
</tr>
<tr>
<td>Test 2</td>
<td>30%</td>
<td>40% required</td>
</tr>
<tr>
<td>Test 3</td>
<td>30%</td>
<td>40% required</td>
</tr>
<tr>
<td>Assignment/Presentation</td>
<td>25%</td>
<td>50% required</td>
</tr>
</tbody>
</table>

Note for each Study Unit:

- In respect to Test 1, a subminimum mark is not applicable.
- A subminimum pass mark of 40% is required for Test 2 and Test 3.
- Students who do not obtain the subminimum mark for either Test 2 or Test 3 will be afforded an opportunity of a retest following remedial intervention.
- A subminimum of 50% will apply to final assignments / presentations submissions. Students may be afforded formative assessment opportunities prior to the final submission.
- The final mark for each Study Unit comprises the marks scored for Test 1, 2, 3 & assignment/presentation with the appropriate weightings. The final pass mark for each unit per Module is 50%.
Credit for Dental Technology Theory II and Dental Technology Theory III subjects will only be granted if the student passes both study units for Module 1 and Module 2 in the same academic year for each theory subject. Therefore, failure in any study unit will necessitate re-registration for all study units per module.

Applied Dental Technology II and Applied Dental Technology III
Both subjects consist of 4 study units.
Final marks for each study unit will be determined as follows:

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Weighting</th>
<th>Sub minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test 1</td>
<td>20%</td>
<td></td>
</tr>
<tr>
<td>Test 2</td>
<td>20%</td>
<td></td>
</tr>
<tr>
<td>Test 3</td>
<td>20%</td>
<td></td>
</tr>
<tr>
<td>(Applied Dental Technology III 50% is required for Test 3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Class work</td>
<td>40%</td>
<td>40% required</td>
</tr>
</tbody>
</table>

4.3.3.7. Rules for Practical Tests and Examinations
A. Preparation procedures prior to the commencement of the test and/or examination.
A.1. All models, examples, teaching aids, previous work done by the students must be cleared out of the laboratory at least one day prior to the commencement of the test/examination. This is to ensure that no outside help or unfair advantage can be gained by the students. Students are to make their own arrangements as to what they should do with these articles cleared from the laboratory.

A.2. All materials, personal tools and equipment required for the practical must be on hand and in working order.

A.3. The invigilator must ensure that all models must be laid out or on-hand and clearly marked for the test/examination.

B. Test and/or examination day.
B.1. No student may bring any handbags or lunch boxes into a test or an examination. Students are to make their own arrangements as to what they should do with these articles.

B.2. Students enter, go to their workstations, and lay out and prepare their tools and instruments.

B.3. The following will be read out prior to the text/examination papers being handed out: “This is an official test/examination of the Department of Dental Sciences as constituted by the Durban University of Technology. All rules of the Institution pertaining to tests and examination apply. These rules are to be found in the Rule Book for students of the Institution and are available to students on request. Those students contravening these rules will be
prosecuted in terms of the rules of the Durban University of Technology by the Institution’s disciplinary tribunal.” (Note to invigilator: In the case of an examination a list of instructions to be read to students will be supplied by Examinations Office and must be read out as well as B.3)

C. **The following laboratory rules & procedures will apply:**

C.1. No additional tools, instruments, models or equipment may be brought into the laboratory during the duration of the test/examination. Any additional materials required by the student to complete the test/examination may only be brought into the venue under the supervision of the invigilator. No tools, instruments, materials, models or equipment may be taken out of the laboratory until the end of the test/examination and after all work has been taken in for marking.

C.2. At lunchtime, the invigilator will inform the students to stop working. All gas taps are to be turned off and the students are to stand by their workstations and await the invigilator’s instructions. Upon checking each individual student’s work the invigilator will give the student permission to leave the laboratory. At the end of the lunch break, the invigilator will allow the students to re-enter and carry on from where they left off.

D. **At the end of the day:**

D.1. The invigilator will inform the students to stop working.

D.2. All students will tidy their workstations and lay out their work-in-progress on their workbenches.

D.3. All students will then clean the laboratory to the satisfaction of the invigilator.

D.4. After the laboratory has been cleaned, the student will stand by their workstations and the invigilator will check all work to ensure that everything is present. The onus is on the student to ensure that all his/her work is present on the bench for inspection. The student will then be told that he/she can go and must leave the laboratory immediately. The student’s work is to be left on the top of his/her workbench. If the student has a muffle to go into the overnight furnace, the student must go to the casting room with the muffle and wait there for the invigilator.

D.5. After all the students have left, the invigilator will secure and lock the laboratory.

E. **A student may not:**

E.1. Touch or handle another student’s work;

E.2. Discuss his/her work or another student’s work with another student;

E.3. Leave the test/examination room FOR WHATEVER REASON without the permission of the designated invigilator;

E.4. Work at another student’s workstation;

E.5. Invest or cast another student’s work, either together or separately with their
own work.

F. Student completing the work prior to the end of the test or examination may inform the invigilator that he/she is finished. He/she must then tidy his/her workstation and hand in his/her completed work. The student must then leave the laboratory immediately. At the end of the test or examination, the student must return and help to clean the laboratory.

G. At the end of the test/examination the invigilator will stop the students from working. Students are then required to clean the laboratory. When the laboratory is clean, the invigilator will take in the student’s work. It is the student’s responsibility to see that all his/her work is clearly marked with his/her name or number.

H. Students are to hand in their own work. Test/examination work MAY NOT be handed in by another student.

I. **Casting procedure**
   - I.1 A student may only cast his/her own work.
   - I.2 The student will ensure that his/her muffle and casting ring is clearly marked with his/her name or number.
   - I.3 In the event that a student casts another student’s muffle and casting ring his/her own muffle and casting ring will be withdrawn and he/she will have to start that section of work again. If the other student’s muffle is a miscast, he/she will be allocated extra time only at the discretion of the Head of Department.
   - I.4 All castings need to be performed in the presence of the invigilator. When ready to cast please inform the invigilator. Failure to do so will result in your casting being withdrawn.

J. **Flasking and Packing of Dentures**
   The student will ensure that his/her flasks and clamps are clearly marked or labeled with his/her name or number. In the event that a student packs or flasks another student’s work, his/her own work will be withdrawn and he/she will have to start that section of the work again. If the other student’s work has been damaged, he/she will be allocated extra time at the discretion of the Head of Department.

K. **Procedure for packing overnight furnace**
   When a student wants a muffle or casting ring to go into the overnight furnace he/she will take the muffle or cast ring to the casting room after his/her work station has been checked at the end of the day. The invigilator will then pack the furnace and set the times and temperature. Each student will note the position of his/her muffle or casting ring in the furnace and the casting in the morning will be in the reverse sequence to the placing of the muffles or casting rings the night before.

L. After the invigilator has confirmed that students acknowledge the rules as
displayed on the class notice board and those additional rules and/or instructions (where necessary) have been verbally explained, the paper is issued and the test/examination will start.

4.3.4. First Aid Certificate
Students shall not be permitted to sit for the examinations at the end of the third year of study unless they are in possession of a Certificate in General First-Aid issued by a first-aid organization recognized by the Institution.

4.3.5. Re-Registration Rules

4.3.6. Exclusion Rules
In addition to Rule G17, the following rule applies: A first year student who fails 3 or more subjects with a final mark of less than 40% in these subjects will not be permitted to re-register in the Dental Technology programme. De-registration from any subject is subject to the provisions of Rule G6 (2). Students wishing to re-apply must do so in writing to the department and may be required to undergo further placement testing.

4.3.7. Interruption of Studies
In accordance with Rule G21A (b), the minimum duration for this will be three (3) years of registered study and the maximum duration will be five (5) years of registered study, including any periods of WPBL. Should a student interrupt their studies by more than three (3) years, the student will need to apply to the department for permission to reregister and will need to prove currency of appropriate knowledge prior to being given permission to continue with registration. (Please note that this rule is necessary to comply with the South African Dental Technicians Council Rules as per the Dental Technicians Act, 1979 (Regulations regarding the training of student Dental Technicians, No. 21 (4) w.e.f 23 February 2001.)

4.3.8. Materials Purchases
Money for materials purchases are to be deposited into the official Durban University of Technology bank account, account number FDTS 301374. A duplicate receipt is to be requested from the cashier, which then needs to be presented to the Senior Technical Assistant who will process the payment on the internal departmental system. Students are responsible for the purchase and cost of dental materials.

4.3.9 Vaccinations
The Department will facilitate a mandatory Hepatitis B vaccination for first time entering students.
5. NATIONAL DIPLOMA: DENTAL TECHNOLOGY: EXTENDED CURRICULUM PROGRAMME (ECP) (NDDTF1)

5.1 Programme Information
This department offers an Extended Curriculum learning programme for the ND: Dental Technology. On the basis of the placement assessments, successful applicants for study towards the National Diploma will be accepted into either the three-year minimum; or an augmented, four-year minimum, of study. An augmented, Extended Curriculum has been devised in order to enhance student development and to improve the student’s chances of successful completion.

5.2 Learning Programme Structure

<table>
<thead>
<tr>
<th>Code</th>
<th>Subjects</th>
<th>Year of Study</th>
<th>CA/E*</th>
<th>Credits</th>
<th>Pre-requisite</th>
<th>Co-Requisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMCA102</td>
<td>Communication I</td>
<td>1</td>
<td>CA</td>
<td>0.020</td>
<td>Admission requirements</td>
<td></td>
</tr>
<tr>
<td>OANA101</td>
<td>Oral Anatomy I</td>
<td>1</td>
<td>CA</td>
<td>0.040</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TMOR101</td>
<td>Tooth Morphology I</td>
<td>1</td>
<td>CA</td>
<td>0.040</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IADT112</td>
<td>Introduction to Applied Dental Technology (Year 1)</td>
<td>1</td>
<td>CA</td>
<td>0.300</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IADT122</td>
<td>Introduction to Applied Dental Technology (Year 2)</td>
<td>2</td>
<td>CA</td>
<td>0.100</td>
<td>Introduction to Applied Dental Technology (Year 1)</td>
<td></td>
</tr>
<tr>
<td>DDRC101</td>
<td>Dental Drawings and Carvings</td>
<td>1</td>
<td>CA</td>
<td>0.280</td>
<td>Admission requirements</td>
<td></td>
</tr>
<tr>
<td>DCLT101</td>
<td>Dental Computer Literacy</td>
<td>1</td>
<td>CA</td>
<td>0.220</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DMSC102</td>
<td>Dental Materials I</td>
<td>2</td>
<td>CA</td>
<td>0.250</td>
<td>Introduction to Applied Dental Technology (Year 1), Dental Drawings and Carvings Dental Computer Literacy</td>
<td></td>
</tr>
<tr>
<td>DTTH101</td>
<td>Dental Technology Theory I</td>
<td>2</td>
<td>CA</td>
<td>0.150</td>
<td></td>
<td></td>
</tr>
<tr>
<td>APDT101</td>
<td>Applied Dental Technology I</td>
<td>2</td>
<td>CA</td>
<td>0.100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHCD111</td>
<td>Physics &amp; Chemistry I (Mod 1) (Physics)</td>
<td>2</td>
<td>E</td>
<td>0.050</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHCD121</td>
<td>Physics &amp; Chemistry I (Mod 2) (Chemistry)</td>
<td>2</td>
<td>E</td>
<td>0.050</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DMSC211</td>
<td>Dental Materials II (Module 1)</td>
<td>3</td>
<td>E</td>
<td>0.145</td>
<td>Dental Materials Science I, Dental Technology I</td>
<td></td>
</tr>
<tr>
<td>DMSC221</td>
<td>Dental Materials II (Module 2)</td>
<td>3</td>
<td>E</td>
<td>0.145</td>
<td>Dental Materials Science II (Mod I)</td>
<td></td>
</tr>
<tr>
<td>DTTH211</td>
<td>Dental Technology II (Mod 1) (Crown/Bridge &amp; Orthodontics)</td>
<td>3</td>
<td>CA</td>
<td>0.080</td>
<td>Dental Technology Theory I</td>
<td></td>
</tr>
<tr>
<td>DTTH221</td>
<td>Dental Technology II (Mod 2) (Chrome &amp; Prosthetics)</td>
<td>3</td>
<td>CA</td>
<td>0.080</td>
<td>Dental Technology Theory I</td>
<td></td>
</tr>
<tr>
<td>APDT201</td>
<td>Applied Dental Technology II</td>
<td>3</td>
<td>CA</td>
<td>0.180</td>
<td>Tooth Morphology I, Applied Dental Technology I</td>
<td></td>
</tr>
<tr>
<td>JURI111</td>
<td>Jurisprudence I (Module 1)</td>
<td>3</td>
<td>E</td>
<td>0.050</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JURI121</td>
<td>Jurisprudence I (Module 2)</td>
<td>3</td>
<td>E</td>
<td>0.050</td>
<td>Jurisprudence I (mod I)</td>
<td></td>
</tr>
<tr>
<td>BPRD101</td>
<td>Business Practice I</td>
<td>4</td>
<td>CA</td>
<td>0.100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DMSC301</td>
<td>Dental Materials III</td>
<td>4</td>
<td>CA</td>
<td>0.250</td>
<td>Dental Materials Science II, Oral Anatomy</td>
<td></td>
</tr>
</tbody>
</table>
5.3 Programme Rules

5.3.1 Minimum Admission Requirements

In addition to Rule G7 the minimum entrance requirement for entry into the programme of study is a National Senior Certificate (NSC) with endorsement for degree entry with the following subjects:

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<th>Subject</th>
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<tbody>
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<td>English (home) or English (1st additional)</td>
<td>3</td>
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<tr>
<td>Physical Sciences or Mathematics OR</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics OR or Mathematics Literacy</td>
<td>3</td>
</tr>
<tr>
<td>And two 20 credit subjects (not more than one language)</td>
<td>3</td>
</tr>
</tbody>
</table>

The minimum requirement for holders of the Senior Certificate is matriculation exemption with the following subjects at the stated ratings:

<table>
<thead>
<tr>
<th>Compulsory Subjects</th>
<th>HG</th>
<th>SG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics or Physical Science</td>
<td>E</td>
<td>C</td>
</tr>
</tbody>
</table>

The latter also applies to NC (V) level four (4) candidates. The DUT General Rules G7 (3) will apply for admission requirements based upon Work Experience, Age and Maturity and Recognition of Prior Learning. The DUT’s Admissions Policy for International Students and General Rules G4 and G7 (5) will apply for admission of International students.

5.3.2 Selection Criteria

In accordance with Rule G5, acceptance into the programme is limited to 28 places. As more qualifying applications are received than can be accommodated, the following selection process will determine placement in the programme:

All applicants must apply through the Central Applications Office (CAO). Initial shortlisting for selection is based on the applicant’s academic performance in Grade 12 (Grade 12 June / trial marks will be used for current matriculants) together with a submission of a portfolio. Shortlisted students will then be invited to undergo placement testing. Applicants who pass the placement tests are invited for an interview. Provisional acceptance is given to selected applicants awaiting National Senior Certificate (NSC) results. If the
final Grade 12 NSC results do not meet the minimum entrance requirements, this provisional acceptance will be withdrawn. Final selection for placement will be based on results in the SC / NSC and DUT placement tests.

5.3.3 Pass Requirements
Students registered in the extended curriculum program, will only be eligible for subsequent registration provided that:
5.3.3.1 A student passes 5 out of the 6 registered subjects.
5.3.3.2 A student passes the following 3 of the 6 subjects:
   - Introduction to Applied Dental Technology (IADT101),
   - Dental Computer Literacy (DCLT101),
   - Dental Drawings and Carvings (DDRC101)

NOTE: The specific rules for ND: Dental Technology (ECP) are stipulated above. In addition, the rules pertaining to the ND: Dental Technology under section 4.3.3 to 4.3.9 apply.

6. Subject Content

SUBJECT CONTENT: ND: DENTAL TECHNOLOGY & ND: DENTAL TECHNOLOGY EXTENDED PROGRAMME (ECP)
NB: Students are to read this section in conjunction with the relevant study guide.

ORAL ANATOMY (OANA101)
Assessment Plan
Theory Tests - 75%
Assignments - 25%
Topics Covered
Introduction to oral anatomy. Surface anatomy. The mucous membrane.
The human skull, including the Maxillae, Mandible and their relationship to the teeth.
The Temporomandibular joint.
Nerves.
Blood supply to the oral cavity. Lymphatic drainage of the Head and Neck. Dental histology.

TOOTH MORPHOLOGY (TMOR101)
Assessment Plan
Theory Tests - 75%
Assignments - 25%
Topics Covered
Dental anomalies. Forensic Dentistry.
APPLIED DENTAL TECHNOLOGY I (APDT101)

Assessment Plan
Class work - 40%
Assessments - 60%

Topics Covered
The handling of gypsum products and wax products, Pouring, trimming and finishing of models, Special (custom) trays. Occlusal rims. Articulation. The setting up of artificial teeth and festooning, Post-Dams. Flasking, packing and polishing, Selective grinding. Acrylic denture repairs.

APPLIED DENTAL TECHNOLOGY II (APDT201)

This subject consists of four discipline-specific areas of equal weighting namely: Crown & Bridge, Orthodontics, Cobalt Chrome & Prosthetics.

Assessment Plan
This subject is run as a continuous assessment and therefore:-
The pass mark for this subject is 50%.
There will be no formal examination at year-end.

There is no supplementary examination/test. Your final mark will be made up of class work (40%) and formal moderated tests (60%).
A 40% subminimum mark per discipline (Crown & Bridge, Orthodontics, Prosthetics and Chrome) is required and a final pass mark of 50%, and above, is needed to pass this subject overall.

Laboratory based Content Covered:

Prosthetics
Aesthetically functional denture set-ups. Complete upper or lower denture against opposing natural teeth.
Insertion of palatal and other strengtheners. Technique for Clear palate dentures. Resilient denture bases.
Denture Inlays.. Basic acrylic partial denture cases. Clinical cases.

Cobalt Chrome
Removable partial dentures, Construction of chrome cobalt partial dentures with the emphasis on survey and block out.

Orthodontics
Diagnostic models, Springs for mesiodistal movement, Springs for buccal movement, Springs for labs lingual movement
Springs for reduction of overjet & alignment of incisors, Base plate and bite planes, Screw type appliances, Clasps

Crown and Bridge
Pin, Base & ditching of models, Working casts and dies, Wax Patterns, Spring, investing, casting and finishing, Posts, Soldering and constructing a three-unit full metal bridge, Metal Inlays/Onlays
Temporary Crowns

APPLIED DENTAL TECHNOLOGY III (APDT301)

Assessment Plan
Class work - 40%
Formal Tests - 60%

Laboratory based Content Covered

Prosthetics
Overdentures tooth and implant supported. Splints, stents and surgical templates. Clinical cases, Maxillofacial: Obturators and variations.

Cobalt Chrome
Removable partial dentures, Construction of chrome cobalt partial dentures with the emphasis on casting, working off, and fitting cobalt chrome dentures. A brief overview of acrylic work on cobalt chrome dentures

Orthodontics
Spring and screw expansion appliances, Habit preventers, Advanced orthodontic springs Intermaxillary and extra oral traction, Fixed orthodontic appliances, Mouth guards

Crown and Bridge

DENTAL MATERIALS SCIENCE I (DMSC102)
Assessment Plan
Assessment - 75%
Assignments - 25%

Topics Covered

DENTAL TECHNOLOGY THEORY I (DTTH 101)
Assessment Plan
Assessment - 75%
Assignments - 25%

Theory Content Covered

DENTAL TECHNOLOGY THEORY II (DTTH 211/221)
Assessment Plan
Theory Tests - 75%
Presentation & Assignments - 25%
Topics Covered

Crown and Bridge
Introduction to fixed restorations, Crown & Bridge Systems, Crown & Bridge wax-up, Sprue, Invest & Casting metal crowns, Different types of margin preparations, Occlusal arrangement/Pathological Occlusion, Occlusal interferences
Porosity, Bridges, Design principles of posts, Temporary crowns & Metal inlays, Technological advancements in Crown & Bridge

Orthodontics
Introduction, Definition of orthodontics, Orthodontic stainless steel and stainless steel wire
Orthodontic appliance and removable appliances, Normal occlusion and morphology of normal occlusion

Occlusal and orthodontic forces, Development of primary and permanent dentition, Tissue changes
Malocclusion of teeth, Classification of malocclusion, Anchorage force and retention
Principles of orthodontic treatment, Case discussions

Cobalt Chrome
Removable partial dentures, Advantages of a metal partial denture. Brief overview of the components of a RPD.

Prosthetics
Inlays for artificial teeth. Saving materials in the dental laboratory.

DENTAL TECHNOLOGY THEORYIII (DTTH 311/321)
Assessment Plan
Theory Tests 75%
Presentation & Assignments 25%

Theory Content Covered
Crown and Bridge
Introduction to metal ceramics. Cast metal ceramic crown and bridge design (Optimizing aesthetics).

Orthodontics
Neuromuscular development of normal occlusion, Preventive orthodontics, Interceptive orthodontics, Habit breakers. Fixed appliances, Soldering and welding of stainless steel, Case discussions

Cobalt Chrome

**Prosthetics**

**INTRODUCTION TO APPLIED DENTAL TECHNOLOGY (IADT 112)**

**Assessment Plan**
- Theory 50%
- Practical 50%

**Topics Covered**
Intro to Dental Theory, Gypsum products, Impressions, Models, Wax products, Special trays

**DENTAL COMPUTER LITERACY (DCLT101)**

**Assessment Plan**
- Theory 80%
- Library Literacy 20%

**Topics Covered**
Hardware, Software, Word Processing, Electronic Information Systems, Spreadsheets, World Wide Web

**DENTAL DRAWINGS AND CARVINGS (DDRC101)**

**Assessment Plan**
- Tests 50%
- Projects 50%

**Topics Covered**
Form, Drawing basic forms, Perspective drawing, Object drawing, (manmade and mechanical objects) Drawing of animal bones, drawing teeth, carving teeth in clay, carving teeth in wax.

**COMMUNICATION (CMCA102)**

**The Assessment Plan**
- Test 1 25%
- Test 2 25%
- Assignment 3 25%
- Test 4 25%
- Examinations 25%

**Topics Covered**

**BUSINESS PRACTICE I (BPRD101)**

**Assessment Plan**
- Theory Tests 40%
Examinations 60%

**Topics Covered**

Human Resources Management, Effective time utilization. Set up and maintain administrative systems.

Application of an applicable software programmes. Develop and use interactive skills. Industrial relations.

Establish goals (Self and organization). Problem solving and decision making. Conflict management.


Health and Safety Act. Basic Conditions of Employment

Accounting, Basic accounting, Transactions and the accounting equation, Accounting definitions

Income statement and balance sheet, Analysis and interpretations, Bank reconciliation, Cash flows.

**DENTAL MATERIALS SCIENCE II (DMSC211/221)**

**Assessment Plan**

Theory Tests & Assignment 40%

Examinations 60%

**Topics Covered**

Elastic impression materials. Die materials. Casting Waxes. Casting Investments,


Electro polishing, Tarnish and corrosion, wrought metal alloys, Soldering and Welding, Rebase materials.

**DENTAL MATERIALS SCIENCE III (DMSC301)**

**Assessment Plan**

Theory Tests 75%

Presentation & Assignments 25%

**Topics Covered**


Evaluation of articles and assignments, Osseointegration dental implant materials, Health factors in a dental laboratory

Porcelain, Noble metal - ceramic alloys, Base metal - ceramic alloys, Biological response to dental materials. Bonding of ceramics

Selection and evaluation of metal ceramic casting alloys, Application of dental materials, Trouble-shooting

**JURISPRUDENCE I (JURI 111/121)**

**Assessment Plan**

Theory Tests and assignment 40%

Examinations 60%

**Topics Covered**

Objectives, functions and powers of the SADTC, Education, training and registration of Dental Technicians and laboratory.

Offences and the control over artificial teeth, Disciplinary powers of the Council

General and supplemental provisions, Regulations of the Council, Adherence to moral standards

Professional ethics code, Professional Image. Other legislative Laws and Acts that pertain to
employed Dental Technicians, continuous professional development forms of ownership.

**PHYSICS AND CHEMISTRY I (PHCD 111/121)**

**Assessment Plan (Physics)**
- Theory Tests 40%
- Examinations 60%

**Topics Covered**
- Introduction to Mechanics, Units, standards and measurements, Vectors, Motion, Introductory Kinematics
- Equations of motion, Forces, Newton’s Laws of Motion, Statics, Torque, Levers in the body: Dental Applications
- Equilibrium, Elastic Properties of Matter, Stress and Strain, Hooke’s Law, Young’s Modulus, Ultimate Strength
- Shearing, Basic Fluid Mechanics, Density, Pressure, Viscosity, Equation of Continuity, Archimedes’ Principle
- Specific Heat Capacity, Latent Heat, Light, Nature of Light, Reflection and Refraction, Dispersion, Colour

**Assessment Plan (Chemistry)**
- Theory Tests 40%
- Examinations 60%

**Topics Covered**
- Matter, Chemical Equations and Stoichiometry, Solutions, Chemical Reactions, Reaction Rates

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7. **B TECH: DENTAL TECHNOLOGY (BTDNT1)**

7.1 **Programme Information**

The B Tech programme is a single year qualification, which enables successful students to become registered (SADTC) laboratory owners. A final practical assessment is conducted which, if completed successfully, enables the qualified student to register with the SADTC. All subjects in this programme do not have a final examination. The results for these subjects are determined through a weighted combination of assessments. As such, there are no supplementary examinations. Students are encouraged to work steadily through the period of registration in order to achieve the highest results possible. Assessment details are listed under each subject at the back of this handbook. Moderation follows the DUT requirements.

8.2 **Learning Programme Structure**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subjects</th>
<th>Year of Study</th>
<th>CA/E*</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMDT101</td>
<td>Research Methods &amp; Techniques I</td>
<td>4</td>
<td>CA</td>
<td>0.200</td>
</tr>
<tr>
<td>BPRD201</td>
<td>Business Practice II</td>
<td>4</td>
<td>CA</td>
<td>0.200</td>
</tr>
<tr>
<td>DMSC411</td>
<td>Dental Materials Science IV (Module 1) (Theory)</td>
<td>4</td>
<td>CA</td>
<td>0.125</td>
</tr>
</tbody>
</table>
### Programme Rules

#### 7.3 Entrance Requirements:
National Diploma: Dental Technology or an equivalent qualification

#### 7.3.2 Selection Criteria
Entry into the B Tech is not automatic. A total of 15 places are available to students and selection will be on the basis of academic performance as determined by a ranking system. Working experience will be an added advantage for those students not applying directly from the National Diploma. Students are required to formally apply in the third term of their third year of study should they wish to be considered for the B Tech. Applicants from industry must apply by the **20 September 2018**. Application forms are available from the Faculty Office: Health Sciences. Completed application forms must be submitted to the Departmental secretary of Dental Sciences.

### Ranking Criteria:

Applicants are required to formally apply should they wish to be considered for the B. Tech programme. Application forms are available from the Faculty Office of Health Sciences. Completed forms must be submitted to the Secretary of the Dental Sciences and/or department before the due date.

Selection will be based on merit as determined by the criteria and points allocation in the table below. Note that preference will be given to those individuals who have industry experience in all four disciplines of Dental Technology. Interviews may be conducted to assess the suitability of the applicant for the programme.
Written evidence of industry experience in a registered Dental Technology Laboratory must be provided with the application or an accumulation of work experience collated as a portfolio.

Students are required to formally apply in the third term of their third year of study should they wish to be considered for the BTech programme. Application forms for this qualification are available from the Faculty Office of the Faculty of Health Sciences.

7.3.3 Pass Requirements

7.3.3.1 A student Dental Technologist must complete the BTech: Dental Technology within two (2) years. This is a South African Dental Technicians Council rule, as well as that of the Durban University of Technology.

7.3.3.2 Subject Rules

**Dental Technology IV (Module 3) (Practical)** is divided into four (4) study units, namely: Crown & Bridge; Orthodontics; Cobalt Chrome; and Prosthetics

**Dental Materials Science IV**
The subject consists of two modules:
- Module I: Theory
• Module 2: Research Project
Each module will contribute fifty percent (50%) towards the final mark. Both modules must be passed in the same academic year.
With reference to Module 2, a student not obtaining the required standard at submission date will be allowed to re-submit before January of the following year, but will fail the current year.

Dental Technology Theory IV
The subject consists of two modules each containing two study units:
• Module 1: Study Unit 1 - Crown & Bridge and Study Unit 2: Orthodontics;
• Module 2: Study Unit 1 - Chrome and Study Unit 2: Prosthetics
Both modules run for the entire year (annual)
Both modules must be passed in the same academic year.
Final marks for each study unit will be determined as follows:

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Weighting</th>
<th>Sub minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test 1</td>
<td>15%</td>
<td>N/A</td>
</tr>
<tr>
<td>Test 2</td>
<td>30%</td>
<td>40% required</td>
</tr>
<tr>
<td>Test 3</td>
<td>30%</td>
<td>40% required</td>
</tr>
<tr>
<td>Assignment/Presentation</td>
<td>25%</td>
<td>50% required</td>
</tr>
</tbody>
</table>

Note for each Study Unit:
• A subminimum pass mark of forty percent (40%) is required for Test 2 and Test 3.
• A subminimum of fifty percent (50%) will apply to assignments / presentations.

NOTE: In addition to the above, the rule pertaining to the ND: Dental Technology - 4.3.3.7 applies.

Dental Technology IV (Practical)
Subjects consist of 4 study units.
Final marks for each study unit will be determined as follows:

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Weighting</th>
<th>Sub minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test 1</td>
<td>20%</td>
<td></td>
</tr>
<tr>
<td>Test 2</td>
<td>20%</td>
<td></td>
</tr>
<tr>
<td>Test 3</td>
<td>20%</td>
<td>50% required</td>
</tr>
<tr>
<td>Class work</td>
<td>40%</td>
<td>40% required</td>
</tr>
</tbody>
</table>

Business Practice II
The course will be evaluated by continuous evaluation. No formal examinations will be written. Students will be evaluated by submitting a formal business plan as well as a group assignment and an accounting equation written test.
Assessment Weighting Sub minimum
Accounting equation  5%  50%
Mall exhibition  15%  50%
Business Report  80%  50% with a 40% subminimum on the financial section

Research Methods & Techniques I (RMDT101) and Research Report (DMSC421)
Are continuous assessment subjects. There are no formal examinations.

With reference to Research Methods & Techniques I (RMDT101) and Research Report (DMSC421):
1. A sub-minimum mark is required for each assessment task.
2. In the event of not obtaining the sub-minimum mark for any of the assessment tasks, students will then fail the entire subject.
3. “Research Methods & Techniques I” is a co-requisite for “Dental Materials IV (Module II) (Research Project)”.

NOTE: In addition to the above, the rule pertaining to the ND: Dental Technology - 4.3.3.7 applies.

8.4 Subject Content: B Tech: Dental Technology
NB: Students are to read this section in conjunction with the relevant study guide

BUSINESS PRACTICE II (BPRD201)
Assessment Plan
Accounting Equation  5%
Mall Exhibition  15%
Business Report  80%

Topics Covered
Applicable software packages. Design a dental laboratory. Develop and use interactive skills. Employer/employee relationship. Establish goals (Self and organization). Problem solving and decision making.
DENTAL MATERIALS SCIENCE IV THEORY (DMSC411)
This subject is run as a continuous assessment and therefore:-
The pass mark for this subject is 50%.
There will be no formal examination at year-end.
Please refer to your discipline specific student guide for further details.

Assessment Plan
Theory Tests  75%
Assignments  25%

Content Covered
Biological response to dental materials; Occupational Health and Safety of Dental Materials; Dental Implant Materials; and Maxillofacial Dental Materials.

DENTAL MATERIALS SCIENCE IV (DMSC421- Module II) RESEARCH REPORT
(See subject guide for specific details)
Assessment Plan
Research abstract  5%
Poster  15%
Research Report/Journal/Case Study  80%

Content Covered:
Writing of a Research Report/ Journal Article/Case Study by providing the: Background/Rationale/ Introduction; Literature Review; Research Design and Methodology; Results/Findings and Discussions; Conclusions and Recommendations; Referencing through EndNote and using Turnitin; Writing a research abstract for a research poster; and presenting research results to peers and to the wider DUT community.

DENTAL TECHNOLOGY IV (DTTH 411) Crown & Bridge & Orthodontics
Assessment Plan
Written Tests  75%
Assignments  25%

Topics Covered
Crown and Bridge
All-ceramic systems; Metal-ceramic systems; Planning and design factors for large cases. Occlusion factors in ceramic restorations; The use of precision attachments and broken stress connectors in large cases; Combination cases with removable partial dentures and fixed restorations with milling and attachments; Implant borne metal-ceramic restorations; Design factors for practical cases.

Orthodontics
Principles of angle Class I treatment; Principles of angle Class II treatment; Principles of angle Class III treatment; Functional jaw orthopedics; Case discussions; Practical cases.

DENTAL TECHNOLOGY IV (DTTH421) Chrome & Prosthetics
Assessment Plan
Written Tests  75%
Assignments  25%

Chrome
Removable partial dentures (Cobalt Chrome); Design principles of chrome cobalt partial dentures; Practical cases; Combination work/precision attachments, backings and onlays.
Prosthetics
Introduction to implantology; Implant terminology; Types of implants; Prosthetic procedures; Occlusal considerations; Biomechanical considerations; Practical cases; Combination work and attachments.

DENTAL TECHNOLOGY IV (DTTH431) (Practical)
Assessment Plan
Class work 40%
Formal Test 60%

Topics Covered
Prosthetics
Overdentures with attachments, Implant terminology, Types of implants, Prosthetic procedures, Occlusal considerations. Biomechanical considerations, Practical cases, Combination work.

Cobalt Chrome
Removable partial dentures, Design of chrome cobalt partial dentures, Practical cases, Combination work, backings, onlays, laser welding.

Orthodontics
Principles of angle Class I treatment, Principles of angle Class II treatment, Principles of angle Class III treatment. Functional jaw orthopaedics, Case discussions, Practical cases.

Crown and Bridge
Metal-ceramic systems; Planning and design factors for large cases, Occlusion factors in ceramic restorations; The use of precision attachments and broken stress connectors in large cases; Combination cases with removable partial dentures and fixed restorations, including milling and precision attachments; CAD-CAM. Practical cases.

RESEARCH METHODS AND TECHNIQUES (RMTQ101)
Assessment Plan (See subject guide for specific details)
Research Phase I 35%
Research Proposal 65%
Note that the final pass mark for this module is 50%.

Content Covered
Overview of Quantitative Research and Qualitative Research, design and methodology. Research Proposal Process: Aim and Objectives/Research Questions; Context of the study; Problem Statement; Delimitations, Limitations, Assumptions and Hypothesis; Overview on Literature Review; Research Design and Methodology (What stimulated the study, Sampling, Data collection and Data Analysis); References and Plagiarism; Ethical Considerations; and Endnote; Academic Development/Writing: Research Proposal.

9. BACHELOR OF HEALTH SCIENCES: DENTAL TECHNOLOGY (BHDNT1)

9.1 Programme Information
A Bachelor of Health Sciences Degree in Dental Technology which enables successful students to become registered (SADTC) laboratory owners with the South African Dental Technicians Council (SADTC). A final practical
assessment is conducted, in the concluding year of the programme, which, if completed successfully, enables the qualified student to register with the SADTC. All subjects do not have a final examination. Students are encouraged to work steadily through the period of registration in order to achieve the highest results possible. Assessment details are listed under each subject at the back of this handbook. Moderation follows the DUT requirements.

9.2 Programme Rules
9.2.1 Minimum Admission Requirements
In addition to Rule G7 the minimum entrance requirement is a National Senior Certificate (NSC) or a Senior Certificate (SC) or a National Certificate (Vocational) NC (V) that is valid for entry into a Bachelor’s Degree and must include the following subjects at the stated minimum weightings below.

<table>
<thead>
<tr>
<th>Subject</th>
<th>NSC Rating</th>
<th>Senior Certificate</th>
<th>NC(V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (home) OR English (1st additional)</td>
<td>4</td>
<td>D</td>
<td>B</td>
</tr>
<tr>
<td>Physical Sciences AND</td>
<td>4</td>
<td>D</td>
<td>B</td>
</tr>
<tr>
<td>Mathematics</td>
<td>4</td>
<td>D</td>
<td>B</td>
</tr>
<tr>
<td>And two 20 credit subjects (not more than one language)</td>
<td>4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Minimum Admission Requirements in respect of Work Experience, Age, Maturity, RPL and International Students.

The DUT general rule G7 (3) and G7(8) respectively will apply.

The DUT’s Admissions Policy for International Students and General Rules G4 and G7 (5) will apply for admission of International students.

9.2.2 Selection Criteria
All applicants must apply through the Central Applications Office (CAO). In accordance with Rule G5, acceptance into the programme is limited. Since more qualifying applications are received than can be accommodated, the following selection process will apply:

- All applicants must apply through the Central Applications Office (CAO).
- Initial shortlisting for selection is based on the applicant’s academic performance in Grade 12 (Grade 12 June / trial marks will be used for current matriculants) together with a submission of a portfolio.
• Applicants who meet the minimum departmental requirements will be ranked and may be invited to a placement tests.

• Initial shortlisting for selection is based on the applicant’s academic performance in Grade 12 and or Grade 11 results.

Note: Applicants whose application has been declined due to poor academic achievement in grade 11 may reapply to the programme should they be able to show improved academic performance in the final grade 12 examinations. Those applicants who wish to reapply should immediately notify the programme of the intention to reapply. In order for the application to be reconsidered, the applicant must submit the final grade 12 results to the Department as soon as these results are available.

• Applicants who pass the placement tests are invited for an interview.

Note: Applicants scoring more than 23 points in their matriculation examination stand a better chance of being selected.

The point scores for each National Senior Certificate (NSC) subject or the Senior Certificate (SC) results is obtained by using the table below:

### POINT SCORES

<table>
<thead>
<tr>
<th>Results</th>
<th>NSC</th>
<th>Senior Certificate</th>
<th>NC(V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>90 – 99%</td>
<td>8</td>
<td>8</td>
<td>6</td>
</tr>
<tr>
<td>80 – 89%</td>
<td>7</td>
<td>7</td>
<td>5</td>
</tr>
<tr>
<td>70 – 79%</td>
<td>6</td>
<td>6</td>
<td>4</td>
</tr>
<tr>
<td>60 – 69%</td>
<td>5</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>50 – 59%</td>
<td>4</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>40 – 49%</td>
<td>3</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>30 – 39%</td>
<td>2</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>0 – 29%</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: no points are allocated for ten (10) credit subjects.

Final selection is based on criteria and weightings in the table below.

### WEIGHTINGS OF ASSESSMENTS

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Weighting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Matriculation Score</td>
<td>50%</td>
</tr>
<tr>
<td>Placement Test</td>
<td>40%</td>
</tr>
<tr>
<td>Interview</td>
<td>10%</td>
</tr>
</tbody>
</table>

• Finally, selected applicants are required to visit a dental laboratory. Failure to provide proof of dental laboratory visitation by the due date as determined by the Department will render the application unsuccessful.
• Selected applicants will be placed into either the four-year Degree or the five-year Extended Curriculum Programme.
• Provisional acceptance is given to selected applicants awaiting National Senior Certificate (NSC) results. If the final Grade 12 NSC results do not meet the minimum entrance requirements, this provisional acceptance will be automatically withdrawn.

9.2.3. Progression rules
In addition to Rules G14 and G16 the following is applicable:

1. As per table 3, students must pass all prerequisite modules before registration for the higher-level modules.

Rules for practical Tests and/or Examinations
All students must comply with the departmental rules and procedures for practical tests and/or examinations as stated in the relevant departmental manual/study guide. Breach of these procedures may result in disciplinary action being taken.

Prior to the commencement of practical test and examinations, students will be made aware of the detailed rules and all students will be required to sign acknowledgement thereof.

9.2.4. First Aid Certificate
Students shall not be permitted to graduate unless they are in possession of a certificate in General First-Aid issued by a first-aid organization recognized by the S.A. Dental Technicians Council.

9.2.5. Re-Registration Rules

9.2.6. Exclusion Rules
Please refer to DUT Rule G17, a student who fails three or more modules with less than 40% in each of the failed modules is not permitted to reregister for the programme. De-registration from any module is subject to the provisions of rule G6(2).

9.2.7 Duration of Study
In accordance with the DUT Rule G23B (2) and Rule G23B (3), the minimum duration is four years, including any periods of dental laboratory practice and the maximum duration will be six years of registered study, including any periods of dental laboratory practice.

9.2.8 Interruption of Studies
Should a student interrupt their studies for a period of more than three consecutive years, the student will need to apply to the department for permission to reregister and will need to prove relevance of appropriate knowledge prior to being given permission to continue with registration.

**SADTC Registration**

Students are required to register with the SADTC by the 31st March in the first year of study

9.2.9. *Dental Laboratory Practice*

Students are referred to Rule G28.

1. **Dental Laboratory Practice** learning is a compulsory component of this qualification and the student is required to attend 24 weeks in an accredited laboratory as well as meeting certain outcomes as specified in the Study guide for this module.

2. A completed record book must be completed by the 31st March in the fourth year of study and must detail and provide proof of all completed **Dental Laboratory Practice** learning activities.

3. Students are required to comply with the rules and regulations of the laboratory in which they are placed.

4. Disciplinary matters occurring in the laboratory will in the first instance be subject to the Laboratory’s Disciplinary Code of Conduct and then be referred to DUT for student disciplinary action.

9.2.10. *Materials Purchases*

Certain students are supplied materials for practical training. Students are required to purchase additional materials for repeat practical exercises.

Money for materials purchases are to be deposited with the official Durban University of Technology cashiers into account number FDTS 301374. A duplicate receipt is to be requested from the cashier which then needs to be presented to the departmental secretary who will process the payment on the internal departmental system.

9.2.11. **Rules for Practical Tests and Examinations**

A. **Preparation procedures prior to the commencement of the test and/or examination.**

A.1. All models, examples, teaching aids, previous work done by the students must be cleared out of the laboratory at least one day prior to the commencement of the test/examination. This is to ensure that no outside help or unfair advantage can be gained by the students. Students are to make their own
arrangements as to what they should do with these articles cleared from the laboratory.

A.2. All materials, personal tools and equipment required for the practical must be on hand and in working order.

A.3. The invigilator must ensure that all models must be laid out or on-hand and clearly marked for the test / examination.

B. **Test and/or examination day.**

B.1. No students may bring any hand-bags or lunch boxes into a test or an examination. Students are to make their own arrangements as to what they should do with these articles.

B.2. Students enter, go to their work stations, and lay out and prepare their tools and instruments.

B.3. The following will be read out prior to the text/examination papers being handed out: “This is an official test/examination of the Department of Dental Sciences as constituted by the Durban University of Technology. All rules of the Institution pertaining to tests and examination apply. These rules are to be found in the Rule Book for students of the Institution and are available to students on request. Those students contravening these rules will be prosecuted in terms of the rules of the Durban University of Technology by the Institution’s disciplinary tribunal.” (Note to invigilator: In the case of an examination a list of instructions to be read to students will be supplied by Examinations Office and must be read out as well as B.3).

C. **The following laboratory rules & procedures will apply:**

C.1. No additional tools, instruments, models or equipment may be brought into the laboratory during the duration of the test/examination. Any additional materials required by the student to complete the test/examination may only be brought into the venue under the supervision of the invigilator. No tools, instruments, materials, models or equipment may be taken out of the laboratory until the end of the test/examination and after all work has been taken in for marking.

C.2. At lunch time the invigilator will inform the students to stop working. All gas taps are to be turned off and the students are to stand by their workstations and await the invigilator’s instructions. Upon checking each individual student’s work the invigilator will give the student permission to leave the laboratory. At the end of the lunch break, the invigilator will allow the students to re-enter and carry on from where they left off.

D. **At the end of the day:**

D.1. The invigilator will inform the students to stop working.

D.2. All students will tidy their work stations and lay out their work-in-progress on their work benches.

D.3. All students will then clean the laboratory to the satisfaction of the invigilator.

D.4. After the laboratory has been cleaned, the student will stand by their work stations and the invigilator will check all work to ensure that everything is present. The onus is on the student to ensure that all his/her work is present.
on the bench for inspection. The student will then be told that he/she can go
and must leave the laboratory immediately. The student’s work is to be left on
the top of his/her workbench. If the student has a muffle to go into the
overnight furnace, the student must go to the casting room with the muffle
and wait there for the invigilator.

D.5. After all the students have left, the invigilator will secure and lock the
laboratory.

E. **A student may not:**

E.1. Touch or handle another student’s work;
E.2. Discuss his/her work or another student’s work with another student;
E.3. Leave the test/examination room FOR WHATEVER REASON without the
permission of the designated invigilator;
E.4. Work at another student’s work station;
E.5. Invest or cast another student’s work, either together or separately with their
own work.

F. Student completing the work prior to the end of the test or examination may
inform the invigilator that he/she is finished. He/she must then tidy his/her
workstation and hand in his/her completed work. The student must then leave
the laboratory immediately. At the end of the test or examination, the student
must return and help to clean the laboratory.

G. At the end of the test/examination the invigilator will stop the students from
working. Students are then required to clean the laboratory. When the
laboratory is clean, the invigilator will take in the student’s work. It is the
student’s responsibility to see that all his/her work is clearly marked with
his/her name or number.

H. Students are to hand in their own work. Test/examination work MAY NOT
be handed in by another student.

I. **Casting procedure**

I.1 A student may only cast his/her own work.
I.2 The student will ensure that his/her muffle and casting ring is clearly marked
with his/her name or number.
I.3 In the event that a student casts another student’s muffle and casting ring
his/her own muffle and casting ring will be withdrawn and he/she will have to
start that section of work again. If the other student’s muffle is a miscast,
he/she will be allocated extra time only at the discretion of the Head of
Department.
I.4 All castings need to be performed in the presence of the invigilator. When
ready to cast please inform the invigilator. Failure to do so will result in your
casting being withdrawn.

J. **Flasking and Packing of Dentures**
The student will ensure that his/her flasks and clamps are clearly marked or
labeled with his/her name or number. In the event that a student packs or
flasks another student’s work, his/her own work will be withdrawn and he/she
will have to start that section of the work again. If the other student’s work
has been damaged, he/she will be allocated extra time at the discretion of the
Head of Department.

**K** Procedure for packing overnight furnace
When a student wants a muffle or casting ring to go into the overnight furnace he/she will take the muffle or cast ring to the casting room after his/her work station has been checked at the end of the day. The invigilator will then pack the furnace and set the times and temperature. Each student will note the position of his/her muffle or casting ring in the furnace and the casting in the morning will be in the reverse sequence to the placing of the muffles or casting rings the night before.

**L** After the invigilator has confirmed that students acknowledge the rules as displayed on the class notice board and those additional rules and/or instructions (where necessary) have been verbally explained, the paper is issued and the test/examination will start.

### 9.3 Learning Programme Structure
**Bachelor of Health Sciences:**

#### FIRST YEAR: FIRST SEMESTER

<table>
<thead>
<tr>
<th>STUDY PERIOD</th>
<th>MODULE TITLE</th>
<th>MODULE CODE</th>
<th>HEQSF LEVEL</th>
<th>SAQA CREDITS</th>
<th>C/E</th>
<th>PREREQUISITES</th>
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<tbody>
<tr>
<td>SP1</td>
<td>PRINCIPLES AND PRACTICES OF DENTAL TECHNOLOGY I (MOD I)</td>
<td>PPDT111</td>
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<td>SP1</td>
<td>DENTAL MATERIALS SCIENCE I (MODI)</td>
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<tr>
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<td>INTRODUCTION TO ORAL ANATOMY (MOD I)</td>
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<tr>
<td>SP1</td>
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<td>COMMUNITY HEALTH CARE AND RESEARCH I PERSONAL AND PROFESSIONAL DEVELOPMENT</td>
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#### FIRST YEAR: SECOND SEMESTER

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**THIRD YEAR: FIRST SEMESTER**

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<td>SP5</td>
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<td>SP5</td>
<td>An Introduction to the Principles and Practices of Research (Mod I)</td>
<td>IPPR111</td>
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**THIRD YEAR: SECOND SEMESTER**

| SP       | Principles and Practices of Advanced Removable Prosthodontics I (Mod II)    | PARP121| 7       | 8        | PARP111         |
| SP       | Principles and Practices of Crown & Bridge III (Mod II)                    | PPCB321| 7       | 8        | PPCB311         |
| SP6      | Dental Materials Science III (Mod II)                                      | DMTS321| 7       | 8        | DMTS311         |
| SP6      | An Introduction to the Principles and Practices of Research (Mod II)        | IPPR121| 7       | 8        | IPPR111         |
| SP6      | Community Health Care and Research III                                     | CHCR301| 6       | 12       | CHCR201         |
|          |                                                                              | PFDV301| 7       |          | PFDV201         |

**FOURTH YEAR: FIRST SEMESTER**

| SP7      | Principles and Practices of Advanced Removable Prosthodontics II (Mod I)   | PARP211| 8       | 8        | PARP111         |
| SP7      | Principles and Practices of Prosthetics IV (Mod I)                         | PPRO411| 8       | 8        | PPCB311         |
| SP7      | Principles and Practices of Crown and Bridge IV (Mod I)                   | PPCB411| 8       | 8        | PPOR301         |
| SP7      | Dental Laboratory Practice                                                 | DLPR101| 8       | 16       | PPRO301         |
| SP7      | Fundamental Principles and Practices to Research Design and Methodology (Mod I) | FRDM111| 8       | 8        | IPPR121         |

**FOURTH YEAR: SECOND SEMESTER**
INTRODUCTION TO ORAL ANATOMY: MODULES I & II (INOA111 & INOA121)

This subject is run as a continuous assessment and therefore:

The pass mark for this subject is 50%.
There will be no formal examination at year end.

Assessment Plan per Module:

<table>
<thead>
<tr>
<th>Module</th>
<th>Theory Tests</th>
<th>Theory Assignment</th>
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<tr>
<td>Theory Tests</td>
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<tr>
<td>Theory Assignment</td>
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</table>

Note for Each Module:

1. Module I is a prerequisite to Module 2.
2. Both modules need to be passed in one year as they are pre-requisite modules to the subject ‘Advance Knowledge of Dental Anatomy and Morphology’.
3. Please refer to your discipline specific student guide for further details.

Subject Content Covered

Module I: Surface Anatomy of the skull and associated anatomical structures; The Oral Mucous Membrane; The human skull, including the Maxillae, Mandible and their relationship to the teeth; and The Temporomandibular joint.

Module 2: Salivary glands; Infection control procedure and diseases of the Oral Cavity; Trigeminal Nerve; Blood supply to the oral cavity; and lymphatic drainage of the head and neck.

INTRODUCTION TO TOOTH MORPHOLOGY: MODULES I & II (ITMO111 & ITMO121)
This subject is run as a continuous assessment and therefore:-
The pass mark for this subject is 50%.
There will be no formal examination at year-end.

**Assessment Plan per Module**

- Tests: 60%
- Assignments: 40%

**Note for Each Module:**
1. **Module 1** is a prerequisite to **Module 2**.
2. Both modules need to be passed in one year as they are pre-requisite modules to the subject ‘Advance Knowledge of Dental Anatomy and Morphology’.
3. Please refer to your discipline specific student guide for further details.

**Subject Content Covered**

**Module 1:** Overview of dental terminologies, concepts and tooth identification systems; Permanent maxillary incisors. Permanent mandibular incisors. Permanent canines. Permanent maxillary premolars. Permanent mandibular premolars.

**Module 2:** Permanent maxillary molars; Permanent mandibular molars; Principles of Mastication; Occlusion and malocclusion; The primary dentition; and dental anomalies.

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**ADVANCED KNOWLEDGE OF DENTAL ANATOMY AND MORPHOLOGY (AKDM101)**

This subject is run as a continuous assessment and therefore:-
The pass mark for this subject is 50%.
There will be no formal examination at year-end.
Please refer to your discipline specific student guide for further details.

**Assessment Plan**

- Tests: 60%
- Theory Assignments: 40%

**Subject Content Covered**

- Border Movements; Structural and functional features of the muscles of mastication and facial expression; Dental Histology; Tissues of the teeth and pulp cavities of the permanent dentition; Oral Anatomy related to oral function; Forensic Dentistry.

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**PRINCIPLES AND PRACTICES OF DENTAL TECHNOLOGY I MODULES I & II (PPDT111 & PPDT121)**

This subject consists of a theory and practical component. Please note that there are two modules in this subject. Module 1 is a prerequisite to Module 2.

Both modules need to be passed in one year as they are pre-requisite modules to the subject ‘Principle and practices of Dental Technology II’.

This subject is run as a continuous assessment and therefore:-
The pass mark for this subject is 50%.
There will be no formal examination at year-end.

### Assessment Plan per module

<table>
<thead>
<tr>
<th>Assessment Section</th>
<th>% Weight Contribution to the Final Mark</th>
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<td>Assessment = 40%</td>
<td>50%</td>
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<tr>
<td>Classwork = 60%</td>
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### Topics Covered

#### Theory

#### Practical

### PRINCIPLES AND PRACTICES OF PROSTHETICS II MODULES I & II (PPRO211 & PPRO221)

#### ASSESSMENT PLAN
This subject is run as a continuous assessment and therefore:-
The pass mark for this subject is 50%.
There will be no formal examination at year-end. There are two assessment sections, namely a theoretical component and a practical component. Each assessment component has a specific and equal weighting towards the final mark, namely:

1. **Theory Component:**
   - Tests = 60%
   - Theory Assignment = 40%

2. **Practical Component:**
   - Tests = 40%
   - Class Practical’s = 60%

**Note:**
1. The sub-minimum mark for each component is 50%.
2. This subject is a pre-requisite to ‘Principles and Practices of Prosthetics III.
3. Please refer to your discipline specific student guide for further details.

**Subject Content Covered**

**Theoretical Principles of Removable Acrylic Dental Prosthetics:** Prosthodontic Terminologies; Artificial Tooth Selection; Aesthetic Denture Set-ups; General Principles of Balance; Lingualised & Monoplane Occlusion; Clear Palates; Palatal Strengtheners; Gold Denture Inlays; and Hard and Soft Denture Relines.

**Removable Acrylic Dental Prosthetics laboratory practice:** Techniques used in the fabrication of “aesthetically” functional wax “try-in” and “finish” dentures; Clear palate dentures; Design and construction of gold inlays in dentures; Denture relines; and Introduction to acrylic partial dentures.

**PRINCIPLES AND PRACTICES OF CROWN AND BRIDGE II MODULES I & II (PPCB211 & PPCB221)**

**Subject Content**

Introduction to fixed restorations, Crown & Bridge Systems, Crown & Bridge wax-up, Sprue, Invest & Casting metal crowns, Different types of margin preparations, Occlusal arrangement/Pathological Occlusion, Occlusal interferences. Porosity, Bridges, Design principles of posts, Temporary crowns & Metal inlays, Technological advancements in Crown & Bridge

**PRINCIPLES AND PRACTICES OF ORTHODONTICS II MODULES I & II (PPOR211 & PPOR221)**

**ASSESSMENT PLAN**

This module will employ continuous assessment through tests, assignments or presentations and formative assessment activities of which theory will constitute 40% of the final mark and practical work will constitute 60%.

**Moderation:** 60% of theory and practical formal assessments will be moderated internally. Each student must obtain an overall final mark of 50% in order to pass this module.

**Topics Covered**

**Theory**

History and development of orthodontics; what is Orthodontics; Indications of orthodontic
treatment; Terminology relating to the structures in the oral and the relationships of the jaws; Timing of orthodontic treatment; Tooth movements by orthodontic appliances; Biomechanics of tooth movements; removable appliances

Practical
Adams clasps; ball clasps; C Clasps; Finger spring; Z spring; T spring; Lapp Spring; Roberts retractor; canine retractor.

PRINCIPLES AND PRACTICES OF PROSTHETICS III (PPRO301)

ASSESSMENT PLAN

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<td>50%</td>
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<tr>
<td>Classwork = 60%</td>
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</tbody>
</table>

Topics Covered
Partial Dentures, Immediate Dentures, Class II & Class III, Articulators, Duplicate Dentures, Splints, Stents and Surgical Templates, Aesthetic Dentures, Over-dentures

DENTAL MATERIALS SCIENCE I MODULES I & II (DMTS111 & DMTS121)

Please note that there are two modules in this subject. Module 1 is a prerequisite to Module 2. Both modules need to be passed in one year, as they are pre-requisite modules to the subject ‘Dental Materials Science II’.

This subject is run as a continuous assessment and therefore:-
The pass mark for this subject is 50%.
There will be no formal examination at year-end.

Assessment Plan per module
Assessment = 60%
Assignments = 40%

Topics Covered

PRINCIPLE AND PRACTICES OF CROWN AND BRIDGE III MODULES I & II (PPCB311 & PPCB321)

Subject Content

PRINCIPLES AND PRACTICES OF ORTHODONTICS III (PPOR301)

ASSESSMENT PLAN
This module will employ continuous assessment through tests, presentations and formative assessment activities of which theory will constitute 40% of the final mark and practical work will constitute 60%.

Assessment tasks will follow examination rules as stipulated in the Institution’s general rule book, departmental handbook and module study guide for students. Students’ performance will be tracked and monitored through submission of draft work and consultations with the academic development practitioners.

Moderation: 60% of theory and practical formal assessments will be moderated externally. The final practical assessment will be externally examined by an examiner appointed by the South African Dental Technicians Council.

TOPICS COVERED
Skeletal and dentoalveolar malocclusions; Temporomandibular joint disorders; Inclined planes; Diagnostic setups; Removable dentofacial orthopaedic appliances; Head gear; Twin block; Herbst appliance; coffin spring; Piston screw; Hyrax; Lip bumper; Quad Helix; Anterior & Posterior bite planes; Midline, sectional and sagittal expansion screws; Buccal Bow; J hooks; tubing; laser welding; space maintainers; gum guards; habit breakers; Night guards; clenching inhibitors; snoring devices; fixed retainers; clear retainers.

PRINCIPLES AND PRACTICES OF ADVANCED REMOVABLE PROSTHODONTICS I MODULES I & II (PARP111 & PARP121)

ASSESSMENT PLAN

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Assignments = 40%

Practical Component:
• Assessment = 40%
• Classwork = 60%

Topics Covered

DENTAL LABORATORY PRACTICE (DLPR101)

HEALTH BUSINESS STUDIES I (HBST101)
Assessment Plan
Theory Tests 40%
Examinations 60%

Topics Covered

HEALTH BUSINESS STUDIES II (HBST201)

DENTAL MATERIALS SCIENCE II MODULES I & II (DMTS211 & DMTS221) ASSESSMENT PLAN

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A pass mark of 50% is required on all written assessments.
Objectives of assessments include testing:
• Ability to transfer knowledge learnt in dental materials class to correctly select optimum dental materials.
• Ability to critically analyse dental materials according to their properties and behaviours.
• Ability to independently apply knowledge.
• Confidence in correctly evaluating certain dental materials.

Moderation will take place according to the University’s assessment policy.

**Topics Covered**

Stress/strain, Elastomeric impression materials, Die materials, Inlay waxes, Investments, Metals and alloys, Soldering, Reline materials, Wrought base metal alloys

**DENTAL MATERIALS SCIENCE III MODULES I & II (DMTS311 & DMTS321)**

**Assessment Plan**

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<tr>
<td>Presentation &amp; Assignments</td>
<td>25%</td>
</tr>
</tbody>
</table>

**Topics Covered**


**DENTAL LAW AND ETHICS MODULES I & II (DLET111 & DLET121)**

**Assessment Plan**

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theory Tests</td>
<td>60%</td>
</tr>
<tr>
<td>Assignments</td>
<td>40%</td>
</tr>
</tbody>
</table>

**Topics Covered**

Objectives, functions and powers of the SADTC, Education, training and registration of Dental Technicians, Offences and the control over artificial teeth, Disciplinary powers of the Council General and supplemental provisions, Regulations of the Council, Adherence to moral standards Professional ethics code, Loyalty to the organization and profession, Professional Image. Other Laws and Acts pertaining to employed Dental Technicians

**PHYSICS (PSCS101)**

**Assessment Plan (Physics)**

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theory Tests</td>
<td>40%</td>
</tr>
<tr>
<td>Examinations</td>
<td>60%</td>
</tr>
</tbody>
</table>

**Topics Covered**


**CHEMISTRY (CHMS101)**
Assessment Plan
Theory Tests 40%
Examinations 60%

Topics Covered

AN INTRODUCTION TO THE PRINCIPLES AND PRACTICES OF RESEARCH MODULES I & II (IPPR111 & IPPR121)
Note that:
This is a prerequisite subject to Fundamental Principles and Practices of Research Design and Methodology.
The final pass mark for this module is 50%.

Assessment Plan (See subject guide for specific details)
Research Phase I 30%
Research Proposal 70%

Topics Covered
Overview of Quantitative Research and Qualitative Research, design and methodology.
Research Proposal Process: Aim and Objectives/Research Questions; Context of the study; Problem Statement; Delimitations, Limitations, Assumptions and Hypothesis; Overview on Literature Review; Research Design and Methodology (What stimulated the study, Sampling, Data collection and Data Analysis); References and Plagiarism; Ethical Considerations; and Endnote.

FUNDAMENTAL PRINCIPLES AND PRACTICES OF RESEARCH DESIGN AND METHODOLOGY MODULES I & II (FRDM111 & FRDM121)

Assessment Plan (See subject guide for specific details)
Research abstract - 10%
Research Poster - 20%
Research Report/Case Study/Journal Article - 70%

Note that the final pass mark for this module is 50%.

Topics Covered:
Writing of a Research Report/ Journal Article/Case Study by providing the: Background/Rationale/ Introduction; Literature Review; Research Design and Methodology; Results/Findings and Discussions; Conclusions and Recommendations; Referencing through EndNote and using Turnitin; Writing a research abstract for a research poster; and presenting research results to peers and to the wider DUT community.

DENTAL MATERIALS SCIENCE IV (DMTS401)
This subject is run as a continuous assessment and therefore:-
The pass mark for this subject is 50%.
There will be no formal examination at year-end.
Please refer to your discipline specific student guide for further details.
Assessment Plan
Theory Tests 60%
Assignments 40%

Topics Covered
Biological response to dental materials; Occupational Health and Safety of Dental Materials; Dental Implant Materials; and Maxillofacial Dental Materials.

PRINCIPLES AND PRACTICES OF CROWN AND BRIDGE IV MODULES I & II (PPCB411 & PPCB 421)

ASSESSMENT PLAN

<table>
<thead>
<tr>
<th>Assessment Section</th>
<th>% Weight Contribution to the Final Mark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theory Component:</td>
<td></td>
</tr>
<tr>
<td>- Assessment = 60%</td>
<td></td>
</tr>
<tr>
<td>- Assignment = 40%</td>
<td></td>
</tr>
<tr>
<td>Practical Component:</td>
<td></td>
</tr>
<tr>
<td>- Assessment = 40%</td>
<td></td>
</tr>
<tr>
<td>- Classwork = 60%</td>
<td></td>
</tr>
</tbody>
</table>

TOPICS COVERED
All-ceramic systems; Metal-ceramic systems; Planning and design factors for large cases. Occlusion factors in ceramic restorations; The use of precision attachments and broken stress connectors in large cases; Combination cases with removable partial dentures and fixed restorations with milling and attachments; Implant borne metal-ceramic restorations; Design factors for practical cases. CAD-CAM including milling and precision attachment.

PRINCIPLES AND PRACTICES OF ADVANCED REMOVABLE PROSTHODONTICS II MODULES I & II (PARP211 & PARP221)

ASSESSMENT PLAN

<table>
<thead>
<tr>
<th>Assessment Section</th>
<th>% Weight Contribution to the Final Mark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theory Component:</td>
<td></td>
</tr>
<tr>
<td>- Assessment = 60%</td>
<td></td>
</tr>
<tr>
<td>- Assignment = 40%</td>
<td></td>
</tr>
<tr>
<td>Practical Component:</td>
<td></td>
</tr>
<tr>
<td>- Assessment = 40%</td>
<td></td>
</tr>
<tr>
<td>- Classwork = 60%</td>
<td></td>
</tr>
</tbody>
</table>
TOPICS COVERED

Removable partial dentures (Cobalt Chrome); Miscasts. Casting defects. Indirect Retention. The RPI Bar concept. Design of chrome cobalt partial dentures; Practical cases; Combination work/precision attachments.

PRINCIPLES AND PRACTICES OF PROSTHETICS IV

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Weighting</th>
<th>Sub minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test 1</td>
<td>15%</td>
<td>N/A</td>
</tr>
<tr>
<td>Test 2</td>
<td>30%</td>
<td>40% required</td>
</tr>
<tr>
<td>Test 3</td>
<td>30%</td>
<td>40% required</td>
</tr>
<tr>
<td>Assignment/Presentation</td>
<td>25%</td>
<td>50% required</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Assessment Section</th>
<th>% Weight Contribution to the Final Mark</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Theory Component:</strong></td>
<td></td>
</tr>
<tr>
<td>• Assessment = 60%</td>
<td></td>
</tr>
<tr>
<td>• Assignment = 40%</td>
<td></td>
</tr>
<tr>
<td><strong>Practical Component:</strong></td>
<td></td>
</tr>
<tr>
<td>• Assessment = 40%</td>
<td></td>
</tr>
<tr>
<td>• Classwork = 60%</td>
<td></td>
</tr>
</tbody>
</table>

Content

1. Precision Attachments and Combination work, Constructing Prosthesis on Implants, Obturators and Maxillofacial Prosthesis.

10. MASTER’S OF HEALTH SCIENCES TECHNOLOGY: DENTAL TECHNOLOGY (MHDNT1)

10.1 Programme Information

This full research qualification is aligned to Rule G24 in the General Student Handbook. This 180 credits qualification is offered at SAQA Level NQF level 9. The student will conduct independent research under guidance in Dental Technology, and contribute to knowledge production in that field. The research problem, its justification, process and outcome is reported in a dissertation, which complies with the generally accepted norms for the research at that level. Ultimately, the graduate will make a valuable contribution to the existing body of knowledge and initiate change that will help to develop and advance the profession of Dental Technology. The minimum duration of the programme is one (1) of study and the maximum duration is three (3) years of study.
10.2 Programme Rules

10.2.1 Admission Requirements
In accordance with Rule G5 in the General Student Handbook, acceptance into the programme is limited, and entry into the Master of Health programme is not automatic. In addition to Rule G24 (1), candidates must be in possession of a Bachelor’s Degree in Dental Technology or an equivalent qualification, or have been granted status or advanced standing according to Rule G10. All international applicants need to have their qualifications evaluated by the South African Qualification Authority (SAQA).

Furthermore, the applicant needs to complete all internal application and selection processes as required by the Department’s Research Committee.

10.2.2 Pass Requirements
Please refer to Rule G24.

10.2.3 Re-registration Rules
Rule G24 (2), Rule G26 (5) and the General Student Handbook.

10.2.4 Exclusion Rules
Rule G24 (1)(d); Rule G24 (2), and the General Student Handbook.

10.2.5 Interruption of Studies
In accordance with Rule G24, the minimum duration for this programme will be one (1) year of registered study and the maximum duration will be three (3) years of registered study. Should a student interrupt their studies by more than three (3) years, the student will need to apply to the department for permission to reregister and will need to prove currency of appropriate knowledge prior to being given permission to continue with registration.

The applicant also needs to complete all internal application processes as required by the department’s research committee.

11 DOCTOR OF DENTAL TECHNOLOGY (DDentalTech)

11.1 Programme Information
This research intensive qualification is aligned to Rule G25 in the General Student Handbook. This 360 credits qualification is offered as SAQA Level NQF level 10. The degree of Doctor of Science is awarded on the basis of the submission of a thesis. The thesis should provide evidence of the student:
Being able to make an original and substantial contribution to the body of knowledge through the use of appropriate research principles and methods;
Gaining knowledge and skills needed to apply scientific research methods independently and critically;
Demonstrating competence in technical skills relevant to Dental Technology, and high level or personal autonomy, commitment and accountability in the design and execution of research; Think
globally and consider issues from a variety of perspectives and apply international standards and practices within Dental Technology; and Demonstrating principles of ethical reasoning and professional responsibility. The thesis must comply with the normal technical requirements and rules with regard to scope, quality and layout.

12.2 Programme Rules
12.2.1 Minimum Admission Requirements
In addition to Rule G25 (1) in the General Student Handbook, persons must be in possession of a Master of Health Sciences in Dental Technology or equivalent, or have been granted status or advanced standing according to Rule G10. Please also refer to the Postgraduate Student Handbook.

Furthermore, the applicant needs to complete all internal application and selection processes as required by the Department's Research Committee.

12.2.2 Pass Requirements
Refer to Rule G25 (4) in the General Handbook for Students

12.2.3 Re-registration Rules
Please refer to Rule G26 (5) and the Postgraduate Student Handbook.

12.2.4 Exclusion Rules
Please refer to Rules G25 (2) (B; C (ii)) in the General Student Handbook.

12.2.5 Interruption of Studies
In accordance with Rule G25 (2), the minimum duration for this programme will be two (2) years of registered study and the maximum duration will be four (4) years of registered study. Should a student interrupt their studies by more than three (3) years, the student will need to apply to the department for permission to reregister and will need to prove currency of appropriate knowledge prior to being given permission to continue with registration. Please refer to the Postgraduate Student Handbook.

SECTION B: DENTAL ASSISTING

13. HIGHER CERTIFICATE: DENTAL ASSISTING (HCDNA1)
[Full Time: One Year Qualification]

13.1 Programme Information
Certain subjects in this qualification do not have a final examination. The results for these subjects are determined through a weighted combination of assessments. As such, there are no supplementary examinations. Students are encouraged to work steadily through the period of registration in order to achieve the highest results possible. Assessment details are listed under each subject at the back of this handbook. Moderation follows the DUT requirements.
13.2. Learning Programme Structure

<table>
<thead>
<tr>
<th>Code</th>
<th>Subjects</th>
<th>Year of Study</th>
<th>Credits</th>
<th>Nated</th>
<th>CA/E*</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSTN101</td>
<td>Cornerstone</td>
<td>1</td>
<td>.094</td>
<td>E</td>
<td></td>
</tr>
<tr>
<td>DAPA101</td>
<td>Dental Assisting Practical IA</td>
<td>1</td>
<td>.093</td>
<td>CA</td>
<td></td>
</tr>
<tr>
<td>DATA101</td>
<td>Dental Assisting Theory IA</td>
<td>1</td>
<td>.126</td>
<td>CA/E</td>
<td></td>
</tr>
<tr>
<td>DNPM101</td>
<td>Dental Practice Management</td>
<td>1</td>
<td>.094</td>
<td>E</td>
<td></td>
</tr>
<tr>
<td>OAPA101</td>
<td>Oral Anatomy and Pathology IA</td>
<td>1</td>
<td>.093</td>
<td>CA/E</td>
<td></td>
</tr>
<tr>
<td>DACP101</td>
<td>Dental Assisting Clinical Practice</td>
<td>1</td>
<td>.0125</td>
<td>CA</td>
<td></td>
</tr>
<tr>
<td>DAPB101</td>
<td>Dental Assisting Practical IB</td>
<td>1</td>
<td>.093</td>
<td>CA</td>
<td></td>
</tr>
<tr>
<td>DATB101</td>
<td>Dental Assisting Theory IB</td>
<td>1</td>
<td>.126</td>
<td>CA/E</td>
<td></td>
</tr>
<tr>
<td>OAPB101</td>
<td>Oral Anatomy and Pathology IB</td>
<td>1</td>
<td>.093</td>
<td>CA/E</td>
<td></td>
</tr>
<tr>
<td>PHDA101</td>
<td>Pharmacology for Dental Assisting</td>
<td>1</td>
<td>.063</td>
<td>CA/E</td>
<td></td>
</tr>
</tbody>
</table>

* CA —Continuous assessment / E —Examination

13.3. Programme Rules

13.3.1. Minimum Admission Requirements
In addition to Rule G7 the following apply:
The minimum entrance requirement for entry into programme: Higher Certificate in Dental Assisting is a National Senior Certificate (NSC), a Senior Certificate or a National Certificate (Vocational) (NC(V)), and must include the following subjects at the stated minimum ratings below:

<table>
<thead>
<tr>
<th>Subject</th>
<th>NSC Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (home) OR English (1st additional)</td>
<td>3</td>
</tr>
<tr>
<td>Life Sciences OR Physical Sciences</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics OR Mathematics Literacy</td>
<td></td>
</tr>
<tr>
<td>and two 20 credit subjects, of which not more than one may be a language</td>
<td>3</td>
</tr>
</tbody>
</table>

The minimum requirement for holders of the Senior Certificate into the programme: Higher Certificate in Dental Assisting is matriculation exemption with the following subjects at the stated ratings:

<table>
<thead>
<tr>
<th>Compulsory Subjects</th>
<th>HG</th>
<th>SG</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>E</td>
<td>C</td>
</tr>
<tr>
<td>Mathematics</td>
<td>E</td>
<td>C</td>
</tr>
<tr>
<td>Biology OR Physical Science</td>
<td>E</td>
<td>C</td>
</tr>
<tr>
<td>and two 20 credit subjects, of which not more than one may be a language</td>
<td>E</td>
<td>C</td>
</tr>
</tbody>
</table>

13.3.2. Selection Procedures
In accordance with Rule G5, acceptance into the programme is limited to seventy five (75) places. As more qualifying applications are received than can be accommodated, the following selection process will determine placement in the programme:
All applicants must apply through the Central Applications Office (CAO). Preference is given to those who have Dental Assisting as their first choice. Initial shortlisting for selection is based on the applicant’s academic performance in Grade 12 (Grade 11 or Grade 12 Trial marks, will be used for current matriculants).

All applicants that meet the above requirement will be notified and will be required to complete and submit documentation to the Dental Assisting Programme.

Applicants who are successful following the interview will then be ranked according to the table below:

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Weighting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Results of the NSC, SC or NC(V) certificate</td>
<td>50%</td>
</tr>
<tr>
<td>Certificate of attendance from a dental surgery</td>
<td>10%</td>
</tr>
<tr>
<td>Submitted documentation</td>
<td>10%</td>
</tr>
<tr>
<td>Interview</td>
<td>30%</td>
</tr>
</tbody>
</table>

Shortlisted students will be invited to undergo placement testing. Applicants who pass the placement tests are invited for an interview. Provisional acceptance is given to selected applicants awaiting National Senior Certificate (NSC) results. If the final Grade 12 NSC results do not meet the minimum entrance requirements, this provisional acceptance will be withdrawn. Final selection for placement will be based on results in the SC / NSC and DUT placement tests.

13.3.3. Pass Requirements

Notwithstanding the DUT pass requirements (G14 and G15), students are encouraged to apply themselves to their learning, and strive for the best academic results possible in order to adequately prepare themselves for their future careers, and to maximize possible employment opportunities.

13.3.4. Uniform

It is compulsory for all students to wear the prescribed uniform. Failure to do so will result in disciplinary action. Dental Assisting students are expected to be appropriately attired when attending clinical sessions. This includes the use of gloves, masks, eyewear, gowns, etc.

13.3.5. First Aid Certificate

Students shall not be permitted to graduate unless they are in possession of a current Level 2 First Aid Certificate at the time of completing the Dental Assisting programme. The first aid certificate will be arranged and paid for by the programme. Students missing the course for any reason will be expected to obtain the required certificate at their own cost and in their own time.

9.3.6. Hepatitis B

All students registered for the programme are required to complete a course of Hepatitis B inoculations arranged and paid for by the department.
9.3.7.  **Duration of Programme**  
In accordance with the DUT Rule G20B*, minimum duration is one year of registered study, including any periods of clinical practice and maximum duration will be two years including any periods of clinical practice.

9.3.8  **Exclusion Rules**  
In addition to the DUT General Rule G17*, a student who fails 50% or more of the subjects registered in the initial year of study with a final mark of less than 40% in the failed subjects will not be permitted to re-register in Dental Assisting programme. De-registration from any subject is subject to the provisions of Rule G6 (2)*.

9.3.9  **Interruption of Studies**  
Should a student interrupt their studies for a period of more than two (2) consecutive years, the student will need to apply to the department for permission to re-register and will need to prove currency of appropriate knowledge and skills prior to being granted permission to continue with registration.

9.4  **SUBJECT CONTENT FOR:**  
Higher Certificate in Dental Assisting  
**NB:** Students are to read this section in conjunction with the relevant study guide

**SEMMESTER I**

**DENTAL ASSISTING THEORY IA (DATA101)**  
**Assessment Plan**  
Theory Tests  40%  
Examination  60%  
**Topics Covered**  
Infection Control; Pain Control, Dental Materials, Radiography

**DENTAL PRACTICE MANAGEMENT (DNPM101)**  
**Assessment Plan**  
Theory Tests  40%  
Examination  60%  
**Topics Covered**  
Patient Management, Practice Management, Ethics and Jurisprudence  
Office Technology and Management - (Theory and Practical)

**ORAL ANATOMY AND PATHOLOGY IA (OAPA101)**  
**Assessment Plan**  
Theory Tests  40%
DENTAL ASSISTING PRACTICAL IA (DAPA101)
Assessment Plan
Clinical Exams 50%
Practical Tests 50%
Topics Covered
Surgery Orientation; Dental Equipment and Dental Instruments; Four Handed Dentistry; Clinical Procedures (including specialties); Clinical Asepsis; Radiographic Procedures

CORNERSTONE 101 (CSTN101)
The Cornerstone module is compulsory for all undergraduate students. The purpose of this module is to induct students into the community of higher education, with values and practices that promote self-awareness, social justice and environmental sustainability
Assessment Plan
TBC

SEMESTER 2

DENTAL ASSISTING THEORY IB (DATB101)
Assessment Plan
Theory Tests 40%
Examination 60%
Topics Covered
Nutrition, Oral Hygiene, Conservative Dentistry, Dental Specialities

ORAL ANATOMY AND PATHOLOGY IB (OAPB101)
Assessment Plan
Theory Tests 40%
Examination 60%
Study Units
Oral Pathology 50%
Medical Emergencies 20%
Cariology 30%

DENTAL ASSISTING PRACTICAL IB (DAPB101)
Assessment Plan
Clinical Exams 50%
**Practical Tests**  
50%

**Topics Covered**

Surgery Orientation; Dental Equipment and Dental Instruments; Four Handed Dentistry; Clinical Procedures (including specialties); Clinical Asepsis; Radiographic Procedures

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**DENTAL ASSISTING CLINICAL PRACTICE (DACP101)**

**Assessment Plan**

- Work Integrated Learning hours: 30%
- Clinical Feedback: 20%
- Practical Tests: 50%

**Topics Covered**

Surgery Orientation; Dental Equipment and Dental Instruments; Infection Control Practice; Radiographic Practice.

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**PHARMACOLOGY FOR DENTAL ASSISTING (PHDA101)**

**Theory Tests**: 40%

**Examination**: 60%

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**10. HIGHER CERTIFICATE: DENTAL ASSISTING [Part Time: Two Year Qualification]**

**10.1 Programme Information**

Certain subjects in this do not have a final examination. The results for these subjects are determined through a weighted combination of assessments. As such, there are no supplementary examinations. Students are encouraged to work steadily through the period of registration in order to achieve the highest results possible. Assessment details are listed under each subject at the back of this handbook. Moderation follows the DUT requirements.

Rules as per study guide will apply.

**10.2. Learning Programme Structure**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subjects</th>
<th>Year of Study</th>
<th>Credits Nated</th>
<th>CA/E*</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSTN101</td>
<td>Cornerstone</td>
<td>1</td>
<td>.094</td>
<td>E</td>
</tr>
<tr>
<td>DAPA101</td>
<td>Dental Assisting Practical 1A</td>
<td>1</td>
<td>.093</td>
<td>CA</td>
</tr>
<tr>
<td>DATA101</td>
<td>Dental Assisting Theory 1A</td>
<td>1</td>
<td>.126</td>
<td>CA/E</td>
</tr>
<tr>
<td>DNPM101</td>
<td>Dental Practice Management</td>
<td>1</td>
<td>.094</td>
<td>E</td>
</tr>
<tr>
<td>OAPA101</td>
<td>Oral Anatomy and Pathology 1A</td>
<td>1</td>
<td>.093</td>
<td>CA/E</td>
</tr>
<tr>
<td>DACP101</td>
<td>Dental Assisting Clinical Practice</td>
<td>1</td>
<td>.0125</td>
<td>CA</td>
</tr>
<tr>
<td>DAPB101</td>
<td>Dental Assisting Practical 1B</td>
<td>1</td>
<td>.093</td>
<td>CA</td>
</tr>
<tr>
<td>DATB101</td>
<td>Dental Assisting Theory 1B</td>
<td>1</td>
<td>.126</td>
<td>CA/E</td>
</tr>
<tr>
<td>OAPB101</td>
<td>Oral Anatomy and Pathology 1B</td>
<td>1</td>
<td>.093</td>
<td>CA/E</td>
</tr>
<tr>
<td>PHDA101</td>
<td>Pharmacology for Dental Assisting</td>
<td>1</td>
<td>.063</td>
<td>CA/E</td>
</tr>
</tbody>
</table>

* CA —Continuous assessment / E —Examination

**10.3 Programme Rules**

**10.3.1 Minimum Admission Requirements**
In addition to Rule G7*, the minimum entrance requirement is a National Senior Certificate (NSC), a Senior Certificate or a National Certificate (Vocational) (NC(V)) that is valid for entry into a National Certificate in Dental Assisting and must include the following subjects at the stated minimum ratings below:

<table>
<thead>
<tr>
<th>Compulsory subjects</th>
<th>NSC Rating</th>
<th>Senior Certificate</th>
<th>NC(V)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>HG</td>
<td>SG</td>
</tr>
<tr>
<td>English or English 1st Additional language</td>
<td>3</td>
<td>E</td>
<td>C</td>
</tr>
<tr>
<td>Mathematics or Mathematical Literacy</td>
<td>3</td>
<td>E</td>
<td>C</td>
</tr>
<tr>
<td>Physical Sciences or Life Sciences</td>
<td>3</td>
<td>E</td>
<td>C</td>
</tr>
<tr>
<td>Two additional 20 credit subjects of which not more than one may be a language.</td>
<td>3</td>
<td>E</td>
<td>C</td>
</tr>
</tbody>
</table>

In addition to Rule G7* the following apply:

The minimum entrance requirements for entry into Programme: Higher Certificate in Dental Assisting - Part Time is as follows:
- Applicants must be at least over twenty one (21) years of age at the time of registration.
- Three (3) years’ work experience in a dental surgery

### 10.3.2. Selection Procedure

Rule G5* applies and acceptance into the programme is limited. If more applications are received than can be accommodated, the following selection process will apply:
- All applicants must apply through the Central Applications Office (CAO).
- Applicants will then be invited to submit relevant documentation to the Department of Dental Sciences.
- Initial short listing for selection is based on the applicant's submitted documentation which will be examined and evaluated by the department.
- All applicants who have submitted the required documentation to the satisfaction of the Department of Dental Sciences may be invited to an interview.

Applicants who are successful following the interview will then be ranked using the weighting below:

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Weighting</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

1 Please see motivation

(This programme is specifically designed to meet the needs of the industry in that HPCSA have deemed that all dental assistants require a professional registration of which a qualification is mandatory)
### Minimum Admission Requirements in Respect of Work Experience, Age, Maturity and Recognition of Prior Learning (RPL).
The DUT general rules G7 (3)* and G7 (8)* respectively will apply.

### Admission of International Students

The DUT Admission Policy for International Students and General Rules G4* and G7 (5)* will apply.

#### 10.3.3. First Aid Certificate

Students shall not be permitted to graduate unless they are in possession of a current Level 2 First Aid Certificate at the time of completing the Dental Assisting programme. The first aid certificate will be arranged and paid for by the programme. Students missing the course for any reason will be expected to obtain the required certificate at their own cost and in their own time.

#### 10.3.4. Duration of the Programme

*For part time students, the maximum duration is 2 years.*

#### 10.3.5. Exclusion Rules

In addition to the DUT General Rule G17*, a student who fails 50% or more of the subjects registered in the initial year of study with a final mark of less than 40% in the failed subjects will not be permitted to re-register in Dental Assisting programme. De-registration from any subject is subject to the provisions of Rule G6 (2)*.

#### 10.3.6 Interruption of Studies

Should a student interrupt their studies for a period of more than two (2) consecutive years, the student will need to apply to the department for permission to re-register and will need to prove currency of appropriate knowledge and skills prior to being granted permission to continue with registration.

### 10.4 Subject Content: Higher Certificate in Dental Assisting (Part-Time)

* Please refer to section 10.4 Subject Content.

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2 Curriculum Vitae; Letter from the Dental Practitioner confirming employment; Assignment and Infection Control Essay