



2016 HANDBOOK DENTAL SCIENCES



HANDBOOK FOR 2016

FACULTY OF HEALTH SCIENCES

DEPARTMENT of DENTAL SCIENCES

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 GI (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.

FACULTY of HEALTH SCIENCES

FACULTY VISION, MISSION, GOALS & VALUES

(November 2012 for 2013-2017)

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:

- o Transparency, openness, honesty, and shared governance
- o Professional and personal respect for others
- o Educational relevance, equity and transformation (curriculum, access and success)
- o Loyalty, accountability, dignity and trust

DEPARTMENTAL MISSION & GOALS

Department of Dental Sciences mission:

The Department of Dental Sciences will constantly strive to:-

- o Provide the best Dental Technology and Dental Assisting educational training on the African continent
- o Be an educational leader in our fields
- o Provide holistic education in preparing students practically for the working environment
- o Enhance the development of Dental Technology and Dental Assisting as a profession in South Africa
- o To develop our research base so as to be the leading Dental Technology and Dental Assisting research institution in Africa
- o To 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
9. Providing teaching laboratories of the highest standards in Africa

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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 |

| | |
|-------------------------------|--|
| Secretary: (Dental Assisting) | Ms Kerusha Pillay |
| Tel No: | (031)-3735356 |
| Fax No: | (031)-3736401 |
| Email: | kerushap@dut.ac.za |
| Location of Department | Gate 8, Steve Biko Rd, Ritson Campus, Mansfield School |

All Faculty queries to:

| | |
|------------------|---|
| Faculty officer: | Mr Vikesh Singh |
| Tel No: | (031)-3732701 |
| Fax No: | (031)-3732407 |
| Email: | vikeshs@dut.ac.za |
| Location: | Health Sciences Faculty Office, Gate 8, Steve Biko Road, Mansfield Site Area, Ritson Campus |

| | |
|-----------------------------|---|
| Executive Dean: | Professor T Puckree |
| 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 Department | Ms D A Skea, MTech: Dental Tech (DUT) Reg Dental Tech |
| Lecturers | Mr K Padayachee, BTech: Dental Tech (DUT), Reg Dental Tech Ms M M P Zondi, MTech: Dent Tech (DUT), Reg Dental Tech Mr MJ Radebe, MBA (MANCOSA) Dr V Gareeb, BDS (MEDUNSA) |
| Specialist Instructors | Mrs Y Ngombane, BTech: Dental Tech (DUT), Reg Dental Tech Mr T Gumbi, BTech: Dental Tech (DUT), Reg Dental Tech Ms P Rattan, BTech: Dental Tech (TN), Reg Dental Tech |
| Technician | Ms DP Lubisi, B Tech Dental Tech (DUT), Reg Dental Tech |
| Secretary Dental Sciences | Ms R Sukhu, B Tech Commercial Administration (ML) |
| Admin Assistant Dental Assisting | Ms K Pillay, BTech Child & Youth Development (DUT) |
| Technical Assistant | Mr M P Phewa |
| General 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:

| Qualification | Qual Code | SAQA NLRD Number | Important Dates |
|--|--|--------------------------------------|--|
| ND: Dental Technology ND: ECP: Dental Technology BTech: Dental Technology MH: Dental Technology DTech: Dental Technology | NDDNTI NDDTFI BTDNTI MHDNTI DTDNTI | 72222 72222 72124 72095 | Teach Out 2021 Teach Out 2021 Teach Out 2020 |
| Qualification | Qual Code | SAQA NLRD Number | |
| NC: Dental Assisting | NCDNAI | 72207 | |

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.

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 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 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.

- **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.

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.

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 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 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.

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.

3.4.8. Registration with the Professional Board 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

| Code | Subjects | Year of Study | CA/E* | Credits | Pre-requisite | Co-req |
|---------|--|---------------|-------|---------|--|--------|
| OANA101 | Oral Anatomy I | 1 | CA | 0.080 | Admission requirements | |
| TMOR101 | Tooth Morphology I | 1 | CA | 0.080 | | |
| DMSC101 | Dental Materials Science I | 1 | CA | 0.350 | | |
| DTTH101 | Dental Technology Theory I | 1 | CA | 0.240 | | |
| APDT101 | Applied Dental Technology I | 1 | CA | 0.170 | | |
| PHCD111 | Physics & Chemistry I (Mod 1) (Physics) | 1 | E | 0.100 | | |
| PHCD121 | Physics & Chemistry I (Mod 2) (Chemistry) | 1 | E | 0.100 | | |
| DMSC211 | Dental Materials Science II (Module 1) | 2 | E | 0.200 | Dental Materials Science I | |
| DMSC221 | Dental Materials Science II (Module 2) | 2 | E | 0.200 | Dental Materials Science II (Mod 1) | |
| DTTH211 | Dental Technology Theory II (Mod 1) (Crown/Bridge & Orthodontics) | 2 | CA | 0.125 | Dental Technology Theory I | |
| DTTH221 | Dental Technology Theory II (Mod 2) (Chrome & Prosthetics) | 2 | CA | 0.125 | Dental Technology Theory I | |
| APDT201 | Applied Dental Technology II | 2 | CA | 0.250 | Tooth Morphology I Applied Dental Technology I | |
| JURI111 | Jurisprudence I (Module 1) | 2 | E | 0.085 | | |
| JURI121 | Jurisprudence I (Module 2) | 2 | E | 0.085 | Jurisprudence I (mod 1) | |
| BPRD101 | Business Practice I | 3 | CA | 0.170 | | |
| DMSC301 | Dental Materials Science III | 3 | CA | 0.350 | Dental Materials Science II Oral Anatomy | |
| DTTH311 | Dental Technology Theory III (Mod 1) (Crown/Bridge & Orthodontics) | 3 | CA | 0.140 | Dental Technology Theory II (Mod 1) (Crown/Bridge & Orthodontics), Oral Anatomy | |
| DTTH321 | Dental Technology Theory III (Mod 2) (Chrome & Prosthetics) | 3 | CA | 0.140 | Dental Technology Theory II (Mod 2) (Chrome & Prosthetics), Oral Anatomy | |
| APDT301 | Applied Dental Technology III | 3 | CA | 0.200 | Oral Anatomy Applied Dental Technology II | |
| ETDN301 | Experiential Learning | 3 | CA | 0.000 | Oral Anatomy I | |
| CMCA102 | Communication I | 3 | CA | 0.080 | | |

*CA = Continuous Assessment; E = Examination at end of Subject / Module

4.3 Programme Rules

4.3.1. 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:

| Subject | NSC Rating |
|--|------------|
| English (home) OR English (1st additional) | 3 |
| Physical Sciences AND/OR | 3 |
| Mathematics OR | 3 |
| Mathematics Literacy | 6 |
| And two 20 credit subjects (not more than one language) | 3 |

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

| Compulsory Subjects | HG | SG |
|--|----|----|
| Mathematics OR Physical Science | E | C |

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

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). 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.

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.

- 4.3.3.1. A student Dental Technician shall not be permitted to continue with Dental Technology II, III or IV or Dental Material Science II, III or IV or 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 Contents” for further information as well as your specific Study Guides, which contain specific rules for each subject. Students may not be allowed resubmissions for continuous assessment tasks unless a forty percent (40%) sub minimum mark is achieved for their first submission.
Any numbers of tasks may form the class work marks. This is solely dependent on the 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 will be 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:

| Assessment | Weighting | Sub minimum |
|-------------------------|------------------|-----------------------|
| Test 1 | | 15% |
| Test 2 | | 30% 40% required |
| Test 3 | | 30% 40% required |
| Assignment/Presentation | | 25% 50% required |

- Note for each Study Unit:
 - In respect to Test 1, 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 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 Module 1 and Module 2 in the same academic year for each subject. Therefore failure in either study units will necessitate re-registration for both study units.

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 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 test/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 over-night 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.

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

Rule G16 of the General Handbook for Students applies.

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 reregister 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. Workplace Based Learning

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.

4.3.9. Materials Purchases

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 Senior Technical Assistant who will process the payment on the internal departmental system.

4.4 Subject Content

SUBJECT CONTENT: 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% |
| Presentation | - | 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.

Muscles. Border movements of the mandible. The salivary glands. Diseases of the oral cavity.

Nerves.

Blood supply to the oral cavity. Lymphatic drainage of the Head and Neck. Dental histology.

TOOTH MORPHOLOGY (TMORI01)

Assessment Plan

| | | |
|-----------------------|---|-----|
| Theory Tests | - | 75% |
| Drawings and Cravings | - | 25% |

Topics Covered

Dental Morphological Terminology. Permanent maxillary incisors. Permanent mandibular incisors. Permanent canines.

Permanent maxillary premolars. Permanent mandibular premolars, Permanent maxillary molars. Permanent mandibular molars. Tissues of the teeth and pulp cavities of permanent teeth.

Oral anatomy related to oral function. Chewing. Occlusion and malocclusion. The primary dentition.

Dental anomalies. Forensic Dentistry.

APPLIED DENTAL TECHNOLOGY I (APDTI01)

Assessment Plan

| | | |
|------------|---|-----|
| Tests | - | 75% |
| Class work | - | 25% |

Topics Covered

The handling of gypsum products and wax products, The use of the model grinder, An introduction to wax work

Models, pouring and trimming, Shellac Trays, Light Cure Trays, Special (custom) trays, Occlusal rims

The setting up of artificial teeth, Flasking, packing and polishing, Acrylic repairs, Major Practical Test

APPLIED DENTAL TECHNOLOGY II (APDT201)

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 per section (Crown & Bridge, Orthodontics, Prosthetics and Chrome) is required before entry is permitted into the final control test.

A 40% sub-minimum is required for the final combined control test.

Please refer to your discipline specific student guide for further details.

**This subject consists of 4 study units all of equal weighting namely:
(Crown & Bridge, Cobalt Chrome, Orthodontics & Prosthetics)**

Topics Covered

Prosthetics

Aesthetics in dentures. Reline and rebase. Odd jaw relationship dentures. Complete upper opposing natural teeth.

Closed bite set-up. Insertion of palatal and other strengtheners. Clear palate. Resilient denture bases.

Inlays of artificial teeth. Acrylic partial dentures. Basics for partial dentures. Clinical cases.

Cobalt Chrome

Removable partial dentures, Construction of chrome cobalt partial dentures with the emphasis on survey, block out and a brief, overview of acrylic work on cobalt chrome dentures.

Orthodontics

Diagnostic models, Springs for mesiodistal movement, Springs for buccal movement, Springs for 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

APPLIED DENTAL TECHNOLOGY III (APDT301)

Assessment Plan

| | | |
|--------------|---|-----|
| Class work | - | 40% |
| Formal Tests | - | 60% |

Topics Covered

Prosthetics

Semi-adjustable articulator. Fully balanced occlusion. Gum tinting. Immediate dentures. Duplication.

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.

Orthodontics

Spring and screw expansion appliances, Habit preventors, Advanced orthodontic springs Intermaxillary and extra oral traction, Fixed orthodontic appliances, Mouth guard.

Crown and Bridge

Introduction to fixed bridges. Bridge design and abutment selection. Pontics and connectors. Spruing, investing, casting and finishing. Soldering and brazing. Bridges. Posts. Introduction to metal ceramics. The cast metal ceramic crown and bridge design. Cast metal ceramic crown and bridge construction. Porcelain application and repair techniques.

DENTAL MATERIALS SCIENCE I (DMSC102)

Assessment Plan

| | | |
|--------------|---|-----|
| Theory Tests | - | 75% |
| Assignments | - | 25% |

Topics Covered

Introduction and properties, Gypsum products, Impression materials, Denture base resins, Waxes, Separating media. Denture cleaners, Dental Instruments, Abrasion and polishing

DENTAL TECHNOLOGY THEORY I (DTTH 101)

Assessment Plan

| | |
|----------------|-----|
| Theory Tests - | 75% |
| Assignments - | 25% |

Topics Covered

Introduction to false teeth. Introduction to removable prosthodontic techniques. Landmarks of the edentulous mouth. Preliminary impressions and casts. Anatomical changes associated with the loss of teeth. Special/custom trays. Master/final/secondary casts/models. Occlusal rims. Articulators, Artificial tooth arrangement. Festooning (waxing up). Post-Dams, Retention, stability and support of complete dentures. Flasking & packing complete dentures. Selective grinding and milling. Polishing. Acrylic repairs. Speech

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. Classification of RPD. Introduction to design of RPD. An in-depth study of major connectors. An in-depth study of rests. An in-depth study on retainers. Guide plates and acrylic retentions.

Prosthetics

Introduction saving material and time. Aesthetics in dentures. Reline and rebase. Adjustments for re-tries. Odd jaw relationship dentures. Identification of dentures. Complete upper opposing natural teeth. Closed bite set-up. Insertion of palatal and other strengtheners. Clear palate. Resilient denture bases. Inlays for artificial teeth. Acrylic partial dentures. Partial dentures. Clinical cases.

DENTAL TECHNOLOGY THEORYIII (DTTH 311/321)

Assessment Plan

| | |
|----------------------------|-----|
| Theory Tests | 75% |
| Presentation & Assignments | 25% |

Topics Covered

Crown and Bridge

Introduction to fixed bridges. Bridge design and abutment selection. Pontics and connectors. Spruing, investing, casting and finishing. Soldering and brazing metal ceramic bridges. Bridges. Temporary restorations. Introduction to metal ceramics. Cast metal ceramic crown and bridge design. Cast metal ceramic crown and bridge construction. Porcelain application. Diagnostic set-ups.

Orthodontics

Neuromuscular development of normal occlusion, Preventive orthodontics, Interceptive orthodontics, Habits Fixed appliances, Soldering and welding of stainless steel, Case discussions

Cobalt Chrome

Removable partial dentures, Duplicating. Spruing. Investing. Heating the muffle (Burn Out). Casting. Induction and flame. Constituents of a chrome cobalt alloy. Working off. Electro polishing. Finishing the RPD. Fitting the RPD. Miscasts. Casting defects. Indirect Retention. The RPI Bar concept. R.P.A. clasp systems.

Prosthetics

Semi-adjustable articulator. Fully balanced occlusion. Gum tinting. Immediate dentures. Duplication. Clinical cases. Overdentures tooth & implant supported. Splints, stents and surgical templates. Clinical cases. Maxillofacial, Obturators and variations. Fractures of the facial bones.

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

| | |
|-----------|------|
| Portfolio | 100% |
|-----------|------|

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

Communication skills and professionalism. Assertive behaviour. Confidence in speaking. Appropriate and effective body language. Active listening. Writing skills. Reading skills. Effective communication. Self-image and interpersonal relations. Conflict resolution skills. Negotiations. Inter-cultural communication.

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. Negotiation skills. Crisis management. Assertive behaviour. Performance Management, Labour Relations Act. 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, Metal solidification & microstructure. Constitution of alloys. Casting procedures for dental alloys. Dental Casting alloys. 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

Maxillo facial materials, Platinum foil & refractory die materials for ceramic restorations 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. Selection and evaluation of dental 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, 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

PHYSICS AND CHEMISTRY (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, Thermal Properties of Matter, Heat and Temperature, Temperature scales, Heat Transfer, Thermal Expansion, 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 and Equilibrium. Acids, Bases and Salts. Electrochemistry and Redox Theory. Applied Chemistry of Selected Topics. Organic Chemistry.

5. NATIONAL DIPLOMA: DENTAL TECHNOLOGY: EXTENDED CURRICULUM PROGRAMME (ECP) (NDTFI)

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

| Code | Subjects | Year of Study | CA/E* | Credits | Pre-requisite | Co-Requisite |
|---------|--|---------------|-------|---------|---|--------------|
| CMCA102 | Communication I | 1 | CA | 0.020 | Admission requirements | |
| OANA101 | Oral Anatomy I | 1 | CA | 0.040 | | |
| TMOR101 | Tooth Morphology I | 1 | CA | 0.040 | | |
| IADT112 | Introduction to Applied Dental (Year 1) | 1 | CA | 0.300 | | |
| IADT122 | Introduction to Applied Dental (Year 2) | 2 | CA | 0.100 | Introduction to Applied Dental (Year 1) | |
| DDRC101 | Dental Drawings and Carvings | 1 | CA | 0.280 | Admission Requirements | |
| DCLT101 | Dental Computer Literacy | 1 | CA | 0.220 | | |
| DMSC102 | Dental Materials Science I | 2 | CA | 0.250 | Introduction to Applied Dental (Year 1), Dental Drawings and Carvings Dental Computer Literacy | |
| DTTH101 | Dental Technology Theory I | 2 | CA | 0.150 | | |
| APDT101 | Applied Dental Technology I | 2 | CA | 0.100 | | |
| PHCD111 | Physics & Chemistry I (Mod 1) (Physics) | 2 | E | 0.050 | | |
| PHCD121 | Physics & Chemistry I (Mod 2) (Chemistry) | 2 | E | 0.050 | | |
| DMSC211 | Dental Materials Science II (Module 1) | 3 | E | 0.145 | Dental Materials Science I | |
| DMSC221 | Dental Materials Science II (Module 2) | 3 | E | 0.145 | Dental Materials Science II (Mod 1) | |
| DTTH211 | Dental Technology Theory II (Mod 1) (Crown/Bridge & Orthodontics) | 3 | CA | 0.080 | Dental Technology Theory I | |
| DTTH221 | Dental Technology Theory II (Mod 2) (Chrome & Prosthetics) | 3 | CA | 0.080 | Dental Technology Theory I | |
| APDT201 | Applied Dental Technology II | 3 | CA | 0.180 | Tooth Morphology I Applied Dental Technology I | |
| JURI111 | Jurisprudence I (Module 1) | 3 | E | 0.050 | | |
| JURI121 | Jurisprudence I (Module 2) | 3 | E | 0.050 | Jurisprudence I (mod 1) | |
| BPRD101 | Business Practice I | 4 | CA | 0.100 | | |
| DMSC301 | Dental Materials Science III | 4 | CA | 0.250 | Dental Materials Science II Oral Anatomy | |
| DTTH311 | Dental Technology Theory III (Mod 1) (Crown/Bridge & Orthodontics) | 4 | CA | 0.095 | Dental Technology Theory II (Mod 1) (Crown/Bridge & Orthodontics) Oral Anatomy | |
| DTTH321 | Dental Technology Theory III (Mod 2) (Chrome & Prosthetics) | 4 | CA | 0.095 | Dental Technology Theory II (Mod 2) (Chrome & Prosthetics), Oral Anatomy | |
| APDT301 | Applied Dental Technology III | 4 | CA | 0.130 | Oral Anatomy I Applied Dental Technology II | |
| ETDN301 | Experiential Learning | 4 | CA | 0.000 | Oral Anatomy I | |

* CA= Continuous Assessment; E = Examination at end of Subject / Module.

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:

| Subject | NSC Rating |
|--|------------|
| English (home) OR English (1st additional) | 3 |
| Physical Sciences AND/OR | 3 |
| Mathematics OR | 3 |
| Mathematics Literacy | 6 |
| And two 20 credit subjects (not more than one language) | 3 |

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

| Compulsory Subjects | HG | SG |
|--|----|----|
| Mathematics OR Physical Science | E | C |

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 ECP programme is limited. 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).
- 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.

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.

5.4 Subject Content

* Please refer to section 4.4 Subject content.

6. B TECH: DENTAL TECHNOLOGY (BTDNT I)

6.1 Programme Information

The B Tech programme is a one 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.

6.2 Learning Programme Structure

| Code | Subjects | Year of Study | CA/E* | Credits |
|---------|---|---------------|-------|---------|
| RMDT10I | Research Methods & Techniques I | 4 | CA | 0.200 |
| BPRD20I | Business Practice II | 4 | CA | 0.200 |
| DMSC41I | Dental Materials Science IV (Module 1) (Theory) | 4 | CA | 0.125 |
| DMSC42I | Dental Materials Science IV (Module 2) (Research Report) | 4 | CA | 0.125 |
| DTTH41I | Dental Technology IV (Module 1) (Crown & Bridge and Orthodontics) | 4 | CA | 0.088 |
| DTTH42I | Dental Technology IV (Module 2) (Chrome and Prosthetics) | 4 | CA | 0.088 |
| DTTH43I | Dental Technology IV (Module 3) (Practical) | 4 | CA | 0.175 |

* CA= Continuous Assessment; E = Examination at end of Subject / Module.

6.3 Programme Rules

6.2.1 Entrance Requirements:

National Diploma: Dental Technology or an equivalent qualification

6.2.2 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 30 September 2015.

Application forms are available from the Faculty Office: Health Sciences. Completed application forms must be submitted to the Departmental secretary of Dental Sciences.

I. Ranking Criteria:

Table 1: Workplace experience post National Diploma

| 0-1 years | 1-3 years | 3-5 years | >5 years |
|-----------|-----------|-----------|----------|
| 0 | 5 | 10 | 15 |

An applicant's ranking is determined by the total point's score which corresponds to the percentage obtained for the subjects: **Applied Dental Technology III, Dental Materials Science III and Dental Technology Theory III**, plus the points for work experience and duration of studies.

Please see **example** in the table below:

| Criteria | Ranking Score (points) |
|--|------------------------|
| Minimum final year subject marks to be obtained is as follows: | |
| Applied Dental Technology III 55% | 55 |
| Dental materials Science III 60% | 60 |
| Dental Technology Theory III 60% | 60 |
| ND: Dental Technology completed in minimum duration (3 years) | 10 |
| Workplace experience (Diploma just completed) | 0 |
| TOTAL | 185 |

Applicants scoring a total of less than 175 ranking points will not be eligible for the BTech programme.

Students, who have completed the undergraduate programme within the specified study period, without repeating subjects, will be awarded an extra ten (10) points.

¹ Evidence of industry experience in a registered Dental Technology Laboratory must be provided with the application.

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.

6.2.3 Pass Requirements

6.2.3.1 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.

6.2.3.2 Subject Rules

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

A sub-minimum mark of 40% is applicable to each study unit.

Dental Materials Science IV

The subject consists of two modules:

- Module 1: 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:

| Assessment | Weighting | Sub minimum |
|-------------------------|-----------|--------------|
| Test 1 | 15% | N/A |
| Test 2 | 30% | 40% required |
| Test 3 | 30% | 40% required |
| Assignment/Presentation | 25% | 50% required |

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.

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. There are no re-submissions as opportunities are given to students, to submit draft work.
3. In the event of not obtaining the sub-minimum mark for any of the assessment tasks, students will then fail the entire subject.
4. "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.

6.4 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

Strategic planning. Financial systems, Operating systems. Human resources. Marketing systems. Procurement systems. Quality control systems. Loss control systems. Effective time management. 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. Conflict handling. Motivation. Crisis management. Client relations. Market research. Assess economic viability. Creative and innovative thinking. Develop markets. Present business plan. Develop organizational network., Effective advertising, Laboratory prescription card. Financing a business. Opening a small business. Computer lectures. Promoting your business. VAT and the Dental Laboratory. Partnerships, and Accounting equation.

DENTAL MATERIALS SCIENCE IV (DMSC411) THEORY

Assessment Plan

| | |
|--------------|-----|
| Theory Tests | 75% |
| Assignments | 25% |

Topics Covered

Porcelain, Types of porcelain for all-ceramic systems, Types of porcelain for metal-ceramic systems.

Metal ceramic bonding, Biological response to dental materials, Composite and glass filled composite materials

Environmental health, Metal ceramic material evaluation, Trouble shooting, Dental composite 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 | 80% |

A research project following the submission of a Proposal will be executed. A final report will be compiled.

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 orthopaedics; Case discussions; Practical cases.

DENTAL TECHNOLOGY IV (DTTH421) Chrome & Prosthetics

Assessment Plan

| | |
|---------------|-----|
| Written Tests | 75% |
| Assignments | 25% |

Chrome

Removable partial dentures (Cobalt Chrome); Design of chrome cobalt partial dentures; Practical cases; Combination work/precision attachments.

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.

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; Practical cases.

RESEARCH METHODS AND TECHNIQUES (RMTQ101)

Assessment Plan (See subject guide for specific details)

| | |
|-------------------|-----|
| Research Phase I | 35% |
| Research Proposal | 65% |

Topics Covered

Section I - Overview of research; Section II Research Problem & Basic Steps to a Research Project; Section III Methodologies/Frameworks; Academic Development/Writing: Research Proposal

7. MASTER'S DEGREE IN HEALTH: DENTAL TECHNOLOGY (MHDNTI)

7.1 Programme Information

This full research qualification is aligned to Rule G24 and the guidelines in the Post Graduate Student Handbook. This 180 credit qualification is offered at the SAQA NQF Level 9. The M Health: Dental Technology is an advanced qualification that is based on research, comprising a supervised project with a dissertation. *The minimum duration of the programme is one (1) of study and the maximum duration is three (3) years of study.*

In the dissertation, the student must provide proof of original and creative thinking and problem-solving, and make a real contribution to the solving of a particular problem in the industry to which their research applies. The dissertations must comply with the normal technical requirements and rules with regard to scope, quality and layout.

Refer to the DUT Postgraduate Handbook for more information.

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

7.2 Programme Rules

7.2.1 Entrance Requirements

In addition to Rule G24 (1), persons must be in possession of a BHSc: Dental Technology or an equivalent qualification or have been granted status or advanced standing according to Rule G10. Please also refer to the Postgraduate Student Handbook. In accordance with Rule G5, acceptance into the programme is limited, and entry into the MHealth programme is not automatic.

7.2.2 Pass Requirements

Please refer to Rule G24 and the Postgraduate Student Handbook. Students are encouraged to apply themselves to their research, and strive for the best academic results possible in order to adequately prepare themselves for their future careers.

7.2.3 Re-registration Rules

Rule G24 (2), Rule G26 (5) and the Postgraduate Student Handbook apply.

7.2.4 Exclusion Rules

Rule G24 (1)(d); Rule G24 (2), and the Postgraduate Student Handbook apply.

7.2.5 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.

8 DOCTOR'S DEGREE IN TECHNOLOGY: DENTAL TECHNOLOGY (DTDNTI)

8.1 Programme Information

This full research qualification is aligned to Rule G25 and G26 and the guidelines in the Post Graduate Student Handbook. This 360 credit qualification is offered at the SAQA NQF Level 10, and is an advanced qualification that is based on research, with a study duration of at least two years. It comprises an advanced research project with a thesis. In the thesis students must provide proof of an original and creative thinking and problem-solving, and make a real contribution to the solving of a particular problem in the industry to which their research applies.

The thesis must comply with the normal technical requirements and rules with regard to scope, quality and layout.

Refer to the DUT Postgraduate Handbook for more information.

8.2 Programme Rules

8.2.1 Minimum Admission Requirements

In addition to Rule G25 (1), persons must be in possession of a MTech: Dental Technology or equivalent, or have been granted status or advanced standing according to Rule G10. Please also refer to the Postgraduate Student Handbook.

8.2.2 Re-registration Rules

Please refer to Rule G26 (5) and the Postgraduate Student Handbook.

8.2.3 Exclusion Rules

Please refer to Rules G25 (2)(b; c(ii)) in the General Student Handbook; and the Postgraduate Student Handbook.

8.2.4 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

9. NATIONAL CERTIFICATE: DENTAL ASSISTING (NCDNAI) [Full Time: One Year Qualification]

9.1. 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.

9.2. Learning Programme Structure

| Code | Subjects | Year of Study | Credits Nated | CA/E* |
|---------|----------------------------|---------------|---------------|-------|
| DEAT101 | Dental Assisting Theory | I | 0.175 | E |
| DEAP102 | Dental Assisting Practical | I | 0.175 | CA |
| OAPT101 | Oral Anatomy and Pathology | I | 0.175 | E |
| DEPM102 | Dental Practice Management | I | 0.175 | E |
| EXDA199 | Experiential Training | I | 0.300 | CA |

* CA —Continuous assessment / E —Examination

9.3. Programme Rules

9.3.1. Minimum Admission Requirements

In addition to Rule G7 the following apply:

The minimum entrance requirement for entry into programme: Certificate in Dental Assisting is a National Senior Certificate (NSC) with endorsement for Certificate entry with the following subjects:

| Subject | NSC Rating |
|---|------------|
| English (home) OR English (1st additional) | 3 |
| Life Sciences OR Physical Sciences | 3 |
| Mathematics OR | 3 |
| Mathematics Literacy | 4 |
| and one 20 credit subject | 3 |

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

| Compulsory Subjects | HG | SG |
|------------------------------------|----|----|
| English | D | C |
| Mathematics | D | C |
| Biology OR Physical Science | E | D |

9.3.2. Selection Criteria

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). 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).

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.

9.3.3. 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.

9.3.4. 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.

9.3.5. 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.

9.3.7 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)*.

9.3.8 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:

National Certificate in Dental Assisting

NB: Students are to read this section in conjunction with the relevant study guide

DENTAL ASSISTING THEORY (DEAT101)

Assessment Plan

| | |
|--------------|--|
| Theory Tests | 36% |
| Assignment | 4% |
| Examination | 60% (Paper 1 and Paper 2 equally weighted) |

Topics Covered

Infection Control; Dental specialties, Dental Materials, Radiography

DENTAL PRACTICE MANAGEMENT (DEPM 102)

Assessment Plan

| | |
|--------------|-----|
| Theory Tests | 36% |
| Assignment | 4% |
| Examination | 60% |

Topics Covered

Patient Management, Practice Management, Ethics and Jurisprudence
Office Technology and Management - (Theory and Practical)

ORAL ANATOMY AND PATHOLOGY (OAPT 101)

Assessment Plan

| | |
|-------------------------------|-----|
| Theory Tests | 36% |
| Assignment | 4% |
| Examination | 60% |
| Study Units | |
| Microbiology and Pharmacology | 25% |
| Oral Anatomy and Physiology | 25% |
| Oral Pathology | 25% |
| Medical Emergencies | 10% |
| Cariology | 15% |

DENTAL ASSISTING PRACTICAL (DEAP102)

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

EXPERIENTIAL LEARNING (EXDA199)

Assessment Plan

Clinical Exams 50%

Practical Tests 50%

Topics Covered

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

10. NATIONAL 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

| Code | Subjects | Year of Study | Credits | *CA/E |
|---------|----------------------------|---------------|---------|-------|
| DEATI01 | Dental Assisting Theory | I | 0.175 | E |
| DEAPI02 | Dental Assisting Practical | I | 0.175 | CA |
| OAPT101 | Oral Anatomy and Pathology | I | 0.175 | E |
| DEPM102 | Dental Practice Management | I | 0.175 | E |
| EXDA199 | Experiential Training | I | 0.300 | CA |

* 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 1: Minimum Admission Requirements

| Compulsory subjects | NSC Rating | Senior Certificate | | NC(V) |
|---|------------|--------------------|----|------------|
| | | HG | SG | |
| English <u>or</u> English 1 st Additional language | 3 | E | C | 60% |
| Mathematics <u>or</u> Mathematical Literacy | 3 4 | E | C | 60% 80% |
| Physical Sciences <u>or</u> Life Sciences | 3 | E | C | 60% |
| Two additional 20 credit subjects of which not more than one may be a language. | 3 | E | C | 60% |

In addition to Rule G7* the following apply:

The minimum entrance requirements for entry into Programme: National Certificate in Dental Assisting - Part Time is as follows:

- Applicants must be at least over twenty one (21) years of age¹ at the time of registration.
- Three (3) years' work experience in a dental surgery

10.3.2. Selection Criteria

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 2: Selection Procedure

| Assessment | Weighting |
|--|------------------|
| Results of the NSC, SC or NC (V) certificate | 30% |
| Submitted documentation ² | 40% |
| Interview | 30% |

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.

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)

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

10.3.4 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)*.

10.3.5 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 For: National Certificate in Dental Assisting (Part-Time)

* Please refer to section 9.4 Subject Content.