

Career Information

Bachelor of Health Sciences in Radiography

Location

Ritson Campus (Block H – Ground Floor)

Description of the Programme

The Department of Radiography offers three discipline specific degrees: Bachelor in Health Sciences in Diagnostic Radiography, Radiotherapy and Diagnostic Sonography

Diagnostic Radiography

Radiography is the creation of radiographs; photographs made by exposing a photographic film or other image receptors to X-rays. Since X-rays penetrate solid objects, but are slightly attenuated by them, the picture resulting from the exposure reveals the internal structure of the object. A radiographer should be able to apply scientific knowledge and technologies, applicable to the clinical presentation, for the production of optimum image quality in a chosen elective; be able to plan, develop and apply total quality management with consideration for equipment, human resources, quality assurance and health care needs; be able to manage a radiographic service; be able to apply research skills and principles, and be able to apply advanced ethical principles to daily practice.

Radiotherapy

Treatment of disease with radiation, especially by selective irradiation with x-rays or other ionizing radiation and by ingestion of radioisotopes. Radiotherapy radiographers deliver doses of X-rays and other ionising radiation to patients, many of whom are suffering from various forms of cancer. Radiotherapy radiographers may be involved in the care of the cancer patient from the initial referral clinic stage, where pre-treatment information is given, through the planning process, treatment and eventually post-treatment review (follow-up) stages.

Diagnostic Sonography/Ultrasound

Ultrasound uses high-frequency sound waves and a computer to create images of blood vessels, tissues, and organs. A sonographer is qualified to perform abdominal and transvaginal ultrasound to determine the size, shape and dimensions of pelvic organs, ovarian follicle production, and the existence of tumours, enlargements or inflammations. Doppler and 3-D ultrasound help identify pathologies such as gallstones, kidney stones, cancers, hematomas and tumours. An ultrasound radiographer must operate various types of diagnostic ultrasound equipment and care for patients competently. He or she does not make a diagnosis, as this falls within the scope of a qualified doctor such as a radiologist, obstetrician, surgeon or physician. The ultrasound radiographer reports his or her finding

SECTION A

1. Age: Minimum age: 18 years as at end of December 2019
2. Physical Fitness: Radiography involves physical work therefore all students must be physically fit and strong. An applicant with severe disability and/or blood-related illness may not be accepted for training. All students will have compulsory medicals during their first week as registered students, as part of the requirements for registration as trainee radiation workers.
3. Academic Entry requirements:

Entry Requirements

DEPARTMENTAL REQUIREMENTS		NSC	DEPARTMENTAL SENIOR CERTIFICATE REQUIREMENTS			
NSC Degree Entry with 28 points or more (excluding LO)			A Senior Certificate or Equivalent Qualification			
Compulsory Subjects	NSC Rating Code	Compulsory Subjects	HG	SG	NCV	
English (Home)	4	English (Home)	D	B	70%	
English (1 st additional)	4	English (1 st additional)	D	B	70%	
Life Science	4	Biology	D	B	70%	
Physical Science	4	Physical Science	D	B	70%	
Mathematics	4	Mathematics	D	B	70%	

Additional Entry Requirements

An applicant may be required to write entrance tests, visit clinical training centres, write essays and attend interviews prior to final acceptance into the Radiography programme.

ADMISSION REQUIREMENTS BASED UPON WORK EXPERIENCE, AGE AND MATURITY

1. For admission to entry level DEGREE studies:

A person may, subject to such requirements as the Senate may determine, be admitted if such a person is in possession of a National Senior Certificate, Senior Certificate or an equivalent certificate, but lacks the minimum requirements for admission to the degree provided that:

- (a) The person shall have reached the age of 23 in the first year of registration and shall have at least:
 - three years' appropriate work experience; and/or
 - capacity for the proposed instructional programme, which shall be assessed by a Senate-approved admission assessment comprising of a DUT Standardised Assessment Test for Access and Placement (SATAP), Academic Literacies (AL) & English for Academic Purposes (EAP) (2,5 hours) and/or an appropriate subject or programme specific written assessment designed and marked by the relevant Department; and the person has obtained
- (b) A conditional certificate of exemption from the Matriculation Board (when in possession of the Senior Certificate (SC)); OR has met
- (c) The requirements for Senate discretionary admission (when in possession of the NSC or equivalent), where Senate is satisfied the applicant has shown sufficient academic ability to ensure success, and that the person's standard of communication skills, and/or work experience are such that the person, in the opinion of the Senate, should be able to complete the proposed instructional programme successfully.

- (d) The person's application for admission in terms of work experience, age and maturity is approved prior to registration.

Applicants intending to gain admission through work experience, age and maturity must submit their applications at least four months before commencement of the academic year inclusive of the date of scheduling writing a requisite eligibility assessment.

Career Opportunities

Work may be sought in provincial and private institutions, in South Africa, as well as in most countries abroad. Radiographers may also open their own practices in accordance with the requirements of the Health Professions Council of South Africa (HPCSA).

Selection of Students

Only those applicants whose senior certificate subjects and results comply with the requirements laid out in Section A above may be invited for final selection. Due to the large number of applicants for radiography, a ranking system is used for the final selection of students.

All applicants must apply through the Central Applications Office (CAO). The initial selection is based on the applicant's academic performance in Grade 11 and/or Grade 12 June results, with a minimum of 28 academic points.

All the applicants that meet the above requirement must complete eight (8) hours of voluntary service in a Radiography clinical environment.

The candidates will then write reports on their observations and experiences whilst in the clinical environment, as well as reasons for choosing radiography as a career.

All the applicants that have successfully completed the above stages will be invited to sit for a placement testing.

On the basis of the placement test results successful candidates may be invited to the interview process.

Candidates that are successful in the interview process may be provisionally accepted into the programme pending their final Senior Certificate (SC) or National Senior Certificate (NSC) results. In the event that the final Grade 12 SC/NSC results do not meet the minimum entrance requirements, this provisional acceptance will be withdrawn.

NB: Compliance with Section A. 3 does not guarantee acceptance for training.

If the candidate is provisionally accepted into the Radiography programme. Final acceptance will be confirmed on the passing of the GRADE 12 examinations with the required ratings. Registration fees must be paid before/on the day of registration.

Applicants are encouraged to apply for the Bursaries offered by the KZN Department of Health.

Application forms are available from: Human Resources Department: Bursaries

Department of Health: Kwa-Zulu Natal Natalia: Private Bag X9051 Pietermaritzburg 3200

Tel: (033) 395 2888 / (033) 395 3032

Registered students may also apply for a bursary offered by the private Radiology Practices in KZN.

All applications must be made via the Central Applications Office (CAO). The Department of Radiography at the DUT does not deal with the first stage of the application process. See details for the CAO below, or alternatively access their website.

Compulsory Registration

A student radiographer must be registered with the Health Professions Council of South Africa (HPCSA) throughout the training programme. These are legal requirements.

Expenses

The selected student will be responsible for:

Payment and/or purchase of:

- his/her annual Durban University of Technology subject and registration fees
- all prescribed/compulsory textbooks
- levies for laboratory usage/breakages at Durban University of Technology,
- accommodation
- additional radiography insurance coverage for radiographers (optional);
- uniforms and white lab coats

transport to/from clinical training centres. Note: students will be rotated for their work integrated learning (WIL) through **ANY** of the accredited clinical training venues in and around the Durban **AND** Pietermaritzburg areas in KwaZulu-Natal

- writing materials, including stationery
- HPCSA fees
- Hepatitis Vaccinations
- Basic Life Support Courses
- Radiation monitoring dosimeters
- Anatomical markers

Recreation

The academic workload for each level of study determines the opportunities for recreation. However, recreation facilities at Durban University of Technology are made available to all registered students.

Employment Opportunities

- 1 It is important to note that employment at the end of the student's training is not guaranteed by any clinical centre. It is the responsibility of the student to seek employment after qualifying. The availability of posts is largely dependent on the economy of the country, and the employment situation at the clinical centres.
- 2 One year of Community Service is compulsory for all graduates. This is arranged by the Department of Health.

Service Conditions

The Province/private practices and/or Durban University of Technology reserves the right to terminate and/or deregister the student from the academic/clinical programme if his/her clinical, professional and/or academic progress, respectively, are deemed unsatisfactory. The student disciplinary rules, according to the Radiography Handbook and WIL Code of Conduct will be applied in these instances.

Important points to note:

Exposure to radiation may harm an unborn baby. Therefore, first time entering female students are required to sign a declaration that they are not pregnant at the time of registration. Should it be ascertained that a student was pregnant at the time of first registering; such student will have to deregister from the programme with immediate effect. This is a legal requirement (Department of Health: Directorate Radiation Control), to be registered as a trainee radiation worker. Furthermore, students who fail to disclose their pregnancy absolve the DUT from any consequences of non-disclosure.

- As a member of the health care team, there will always be the risk of exposure to infectious diseases, e.g. Hepatitis B, Tuberculosis, and HIV/Aids. All registered students are given Hepatitis vaccines during their training.

SECTION B

Professional Organizations

Professional body membership is not compulsory but student radiographers may join voluntarily as they are also members of the radiography profession, e.g. Society of Radiographers of South Africa (SORSA)

Application Closing Date

Annual closing date is 15 August 2019. Applications with insufficient or incomplete required documentation will not be considered. Late applications may be considered, in order to meet enrolment targets.

CURRICULUM AND TUITION FEES

Please contact the Department for the Curriculum and Fees of each specialisation

PLEASE NOTE: For semester programmes there would be a single registration for semester 1 and semester 2 at the beginning of each academic year.

FURTHER INFORMATION

Department of Radiography
Durban University of Technology
P O Box 1334
Durban 4000
Tel: 031 373 3763/2450 Fax to email: 086 550 8774
E-mail: zamangunig@dut.ac.za

Central Applications Office (CAO)

Address letters to:
Central Applications Office
Private Bag X06
Dalbridge 4014
Tel: (031)2684444 Fax: (031)2684422
Internet: <http://www.cao.ac.za>

Closing Date: 15 August 2019

CAO Codes:

BHSc: Diagnostic Radiography	DU-D-RAD
BHSc: Diagnostic Sonography	DU-D-RAS
BHSc: Radiotherapy	DU-D-RTO

This leaflet is for information purposes only and is not binding on the Durban University of Technology.



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**DEPARTMENT OF
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CAREER INFORMATION

**BACHELOR OF
HEALTH SCIENCES IN
RADIOGRAPHY**

1 JANUARY - 31 DECEMBER 2020

2020