



CAREER INFORMATION 2023

BACHELOR OF HEALTH SCIENCES: RADIOGRAPHY



01 JAN - 31 DEC 2023



Bachelor of Health Sciences in Radiography

NQF Level: 8

Location: Ritson Campus (Block H Ground

Floor) Description of the Programme

The Department of Radiography offers three discipline specific degrees namely:

- 1) Bachelor of Health Sciences in Diagnostic Radiography,
- 2) Bachelor of Health Sciences in Diagnostic Sonography, and
- 3) Bachelor of Health Sciences in Radiotherapy.

Bachelor of Health Sciences in Diagnostic

Radiography Qualification Code:

BHDRDI

SAQA ID: 94832

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.

Bachelor of Health Sciences in Diagnostic

Sonography Qualification Code: BHDSNI

SAQA ID: 94679

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 findings.

Bachelor of Health Sciences in

Radiotherapy Qualification Code:

BHRDTI

SAQA ID: 94800

Treatment of various cancers and abnormal growths using ionizing radiations such as x-rays, electrons, neutrons, etc. Ionizing radiation kills cancer cells and cells from the abnormal growths. Radiotherapy radiographers (known as radiation therapists) operate high technology machines to deliver doses of radiation to the area of treatment in order to cure cancer (radical treatment), alleviate symptoms of cancer (palliative treatment), and to treat an unaffected area in order to prevent spread of cancer to that area (prophylactic treatment). They are responsible for planning the cancer treatment planning, delivery of

radiation treatment to the patient as well as care of the patient before, during and after treatment with radiation.

Section A

Basic Requirements for Training

1. Age: Minimum age: 18 years as at end of December 2021
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.

Explanation of Points scale:

SENIOR CERTIFICATE (SC)		
SYMBOL	HIGHER GRADE	STANDARD GRADE
A	8	6
B	7	5
C	6	4
D	5	3
E	4	2
F	3	1

NATIONAL SENIOR CERTIFICATE (NSC)		
%	LEVEL	POINTS
90-100	7	8
80-89%	7	7
70-79%	6	6
60-69%	5	5
50-59%	4	4
40-49%	3	3
30-39%	2	2
20-29%	1	1

Entry Requirements (BHS in Radiography)

NATIONAL SENIOR CERTIFICATE (NSC) (01 JANUARY 2009) with 28 points or more		SENIOR CERTIFICATE (SC) (PRE 2009)			NATIONAL CERTIFICATE (VOCATIONAL) NCV	
NSC DEGREE ENTRY		SC With Matric Exemption or Equivalent			NCV	
Compulsory Subjects	NSC Rating Code	Compulsory Subjects	HG	SG	Compulsory Subjects	Mark
English	4	English	D	C	English	70%
Mathematics	4	Mathematics	D	B	Mathematics	70%
Physical Science	4	Physical Science	D	B	Physical Science	70%
Life Science	4	Biology	D	B	Life Science OR Biology	70%

Additional Entry Requirements:

Applicants may be required to write an entrance test, visit clinical training centres and spend at least 8 hours in the discipline specific department (**Proof of letter from the Head of Department is required**) and attend interviews prior to final acceptance into the radiography programme.

Please Note: Applicants will only be considered for interview if they have placed this programme as 1st or 2nd choice

Selection of Students:

All applicants must apply through the Central Application 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 30 points.

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

Based on the placement test results successful candidate may be invited to the interview process

Candidate 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 final Grade 12 SC/NSC results do not meet the minimum entrance requirements, this provisional acceptance will be withdrawn.

NB: Compliance with the minimum entry requirements in the above table does not guarantee acceptance for training.

Final acceptance into the programme is done by the Radiography Department after the interviews and the applicant will be notified.

OR

ADMISSION REQUIREMENTS BASED UPON WORK EXPERIENCE, AGE AND MATURITY

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 with 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 the commencement of the academic year inclusive of the date of scheduling writing a requisite eligibility assessment.

Compulsory Registration

A student radiographer must be registered with the Health Professions Council of South Africa (HPCSA) throughout their training in the programme. This is a legal requirement.

Expenses

The selected student will be responsible for Payment and/or purchase of:

1. His/her annual Durban University of Technology subject and registration fees.
2. All prescribed/compulsory textbooks.
3. Levies for laboratory usage/breakages at Durban University of Technology, and
4. Accommodation.
5. Additional radiography insurance coverage for radiographers (optional);
6. Uniforms and white lab coats.

7. Transport to/from clinical training centres. Note: students may be rotated for their work-integrated learning (WIL) through ANY of the accredited clinical training venues in and around the Durban AND Pietermaritzburg areas on KwaZulu-Natal.
8. Writing materials, including stationery.
9. HPCSA fees
10. Hepatitis Vaccinations
11. Basic Life Support Courses
12. Radiation monitoring devices
13. 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

Compulsory One year of Community Service is compulsory for all graduates.

NB: any clinical centre does not guarantee Employment at the end of the student is training. 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 training centres.

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).

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

- i) A pregnant radiographer is restricted in her field of work, as a registered radiation worker may not perform some radiographic examinations during her pregnancy. The student may be required to de-register during her pregnancy. Any student who is pregnant at the commencement of her studies or becomes pregnant during her training must disclose her pregnancy to the head of department immediately as exposure to radiation may harm the unborn baby. This is a Department of Health: Directorate Radiation control requirement.
- ii) 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.
- iii) As a trainee radiation worker, you are required to wear a radiation dose monitoring device (film badge) **at all times** when you are at the training facility.

Section B

Professional Organisations

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.

Curriculum and

Tuition Fees Tuition

Fees

To assist you with your planning, the fees have been indicated below. An increase for next year, to accommodate the inflation rate, can be expected.

Please Note: DUT cannot be held liable for the fees in this brochure, as the 2023 fees are not yet final.

BHS in (BHS in Diagnostic Radiography) Curriculum

First Year Curriculum				
Name of Module	Module Code	HEQSF Level	SAQA Credits	2022 Fees
Semester One				
Anatomy I	ANTM101	5	12	R5110.00
Physiology IA	PYSA101	5	12	R4260.00
Cornerstone	CSTN101	5	12	R3410.00
Chemistry	CSTY101	5	8	R2270.00
Diagnostic Practice & Procedures IA	DPPA101	6	8	R3410.00
Select One Module (FGE) from the List Below:				
IsiZulu for Health Care Professionals I	IZHP101	5	12	R4850.00
Issues of Gender & Society within Health Care	IGSH101			R5110.00
TOTAL				R28420.00
Semester Two				
Physiology IB	PYSB101	5	12	R4260.00
Professional Practice & Management I	PPRM101	6	12	R2270.00
Diagnostic Imaging Sciences I	DGIS101	5	8	R2850.00
Diagnostic Practice & Procedures IB	DPPB101	6	12	R3410.00
Physics	PHIS101	5	8	R2270.00
Clinical Diagnostic Practice & Procedure I	DPPC101	6	8	R3410.00
Select One Module (IGE) from the List Below:				
Values in the Workplace	VWKP101	5	8	R2270.00
ICT Literacy Skills	ICTL101			R2140.00
Cultural Diversity	CLDV101			R2140.00
TOTAL CREDITS			132	
TOTAL				R25020.00
Second Year Curriculum				
Semester Three				
Anatomy II	ANTM201	5	12	R5110.00
General Pathology	GNLP101	6	8	R2270.00
Professional Practice & Management II	PPRM201	6	8	R2270.00
Diagnostic Practice & Procedures IIA	DPPA201	6	16	R7950.00
Select One Module (IGE) from the List Below:				
HIV & Communicable Diseases in KZN	HCDK101	6	8	R2270.00
The Global Environment	GENV101			R2140.00
Environmental Awareness for Health Care Professionals	EVAH101	6	12	R5110.00
IsiZulu for Health Care Professionals I	IZHP101	7	12	R4850.00
TOTAL				R31970.00
Semester Four				
Diagnostic Imaging Sciences II	DGIS201	6	16	R5680.00
Diagnostic Practice & Procedures IIB	DPPB201	6	16	R7950.00
Health Sciences Research I	HSRS101	6	12	R3410.00
Clinical Diagnostic Practice & Procedure II	DPPC201	6	16	R7950.00
TOTAL CREDITS			136	
TOTAL				R24990.00
Third Year Curriculum				
Semester Five				
Management for Health Professionals	MNHPI01	6	8	R2270.00
Diagnostic Imaging Sciences III	DGIS301	7	16	R5680.00

Diagnostic Practice & Procedures IIIA	DPPA30I	7	16	R6820.00
Select One Module (IGE) from the List Below:				
HIV & Communicable Diseases in KZN	HCDK10I	6	8	R2270.00
The Entrepreneurial Edge	TENE10I			R2270.00
TOTAL				R19310.00
Semester Six				
Diagnostic Practice & Procedures IIIB	DPPB30I	7	16	R6820.00
Health Sciences Research II	HSRS20I	7	12	R4260.00
Leadership & Supervisory Development	LDSD10I	7	12	R4540.00
Ethics & Medical Law	ETML10I	7	12	R5120.00
Select One Module (FGE) from the List Below:				
Educational Techniques I	EDUT10I	7	12	R5110.00
IsiZulu for Health Care Professionals II	IZHP30I			
Clinical Diagnostic Practice & Procedure III	DPPC30I	6	16	R6820.00
TOTAL CREDITS			128	
TOTAL				R32670.00
Fourth Year Curriculum				
Semester Seven				
Professional Practice & Management III	PPRM302	8	12	R3430.00
Diagnostic Imaging Sciences IV	DGIS40I	8	16	R5670.00
Diagnostic Practice & Procedures IVA	DPPA40I	8	16	R5430.00
Health Sciences Research III	HSRS30I	8	28	R4640.00
TOTAL				R19170.00
Semester Eight				
Diagnostic Practice & Procedures IVB	DPPB40I	8	16	R5680.00
Small Business Management	SBSM10I	6	8	R2270.00
Clinical Mentoring & Assessment	CLMA10I	8	12	R4260.00
Clinical Diagnostic Practice & Procedures IV	DPP40I	6	20	R5680.00
TOTAL CREDITS			128	
TOTAL				R17890.00

BHS in (BHS in Radiotherapy) Curriculum

First Year Curriculum				
Name of Module	Module Code	HEQSF Level	SAQA Credits	2022 Fees
Semester One				
Anatomy I	ANTM10I	5	12	R5110.00
Physiology IA	PYSA10I	5	12	R4260.00
Cornerstone	CSTN10I	5	12	R3410.00
Chemistry	CSTY10I	5	8	R2270.00
Radiotherapy Practice & Procedures IA	RPPA10I	6	8	R3410.00
Select One Module (FGE) from the List Below:				
IsiZulu for Health Care Professionals I	IZHP10I	5	12	R4850.00
Issues of Gender & Society within Health Care	IGSH10I			R5110.00
TOTAL				R24160.00
Semester Two				
Physiology IB	PYSB10I	5	12	R4260.00
Professional Practice & Management I	PPRM10I	6	12	R2270.00
Radiation Treatment Sciences I	RTSC10I	5	8	R2850.00
Radiotherapy Practice & Procedures IB	RPPB10I	6	12	R3410.00
Physics	PHIS10I	5	8	R2270.00

Clinical Radiotherapy Practice & Procedure I	RPPC101	6	8	R3410.00
Select One Module (IGE) from the List Below:				
Values in the Workplace	VWKPI01	5	8	R2270.00
ICT Literacy Skills	ICTL101			R2140.00
Cultural Diversity	CLDV101			R2140.00
TOTAL CREDITS			132	
TOTAL				R25020.00
Second Year Curriculum				
Semester Three				
Anatomy II	ANTM201	5	12	R5110.00
General Pathology	GNLP101	6	8	R2270.00
Professional Practice & Management II	PPRM201	6	8	R2270.00
Radiotherapy Practice & Procedures IIA	RPPA201	6	16	R7950.00
Select One Module (IGE) from the List Below:				
HIV & Communicable Diseases in KZN	HCDK101	6	8	R2270.00
The Global Environment	GENV101			R2140.00
TOTAL				R22010.00
Semester Four				
Radiation Treatment Sciences II	RTSC201	6	16	R5680.00
Radiotherapy Practice & Procedures IIB	RPPB201	6	16	R7950.00
Health Sciences Research I	HSRS101	6	12	R3410.00
Clinical Radiotherapy Practice & Procedure II	UPPC201	6	16	R7950.00
Select One Module (FGE) from the List Below:				
Environmental Awareness for Health Care Professionals	EVAH101	6	12	R5110.00
IsiZulu for Health Care Professionals II	IZHP101			R4850.00
TOTAL CREDITS			124	
TOTAL				R34950.00
Third Year Curriculum				
Semester Five				
Management for Health Professionals	MNHP101	6	8	R2270.00
Radiation Treatment Sciences III	RTSC301	7	16	R5680.00
Radiotherapy Practice & Procedures IIIA	RPPA301	7	16	R6820.00
Select One Module (IGE) from the List Below:				
Equality & Diversity	EQDV101	7	8	R2140.00
The Entrepreneurial Edge	TENE101			R2270.00
TOTAL				R19180.00
Semester Six				
Radiotherapy Practice & Procedures IIIB	RPPB301	7	16	R6820.00
Health Sciences Research II	HSRS201	7	12	R4260.00
Ethics & Medical Law	ETML101	7	12	R5120.00
Select One Module (FGE) from the List Below:				
Educational Techniques I	EDUT101	7	12	R5110.00
IsiZulu for Health Care Professionals II	IZHP301			
Clinical Radiotherapy Practice & Procedure III	RPPC301	6	16	R6820.00
TOTAL CREDITS			112	
TOTAL				R28130.00
Fourth Year Curriculum				
Semester Seven				
Professional Practice & Management III	PPRM302	8	12	R3430.00
Radiation Treatment Sciences IV	RTSC401	8	16	R5680.00

Radiotherapy Practice & Procedures IVA	RPPA40I	8	16	R5680.00
TOTAL				R14790.00
Semester Eight				
Radiotherapy Practice & Procedures IVB	RPPB40I	8	16	R5680.00
Small Business Management	SBSM10I	6	8	R2270.00
Clinical Mentoring & Assessment	CLMA10I	8	12	R4260.00
Health Sciences Research III	HSRS30I	8	28	R4860.00
Clinical Radiotherapy Practice & Procedures IV	UPPC40I	6	20	R5680.00
TOTAL CREDITS			128	
TOTAL				R22750.00

**BHS in (BHS in Diagnostic Sonography) Curriculum
First Year Curriculum**

Name of Module	Module Code	HEQSF Level	SAQA Credits	2022 Fees
Semester One				
Anatomy I	ANTM10I	5	12	R4880.00
Physiology IA	PYSA10I	5	12	R4070.00
Cornerstone	CSTN10I	5	12	R3260.00
Chemistry	CSTY10I	5	8	R2170.00
Ultrasound Practice & Procedures IA	UPPA10I	6	8	R3260.00
Select One Module (FGE) from the List Below:				
IsiZulu for Health Care Professionals I	IZHP10I	5	12	R4630.00
Issues of Gender & Society within Health Care	IGSH10I			R4880.00
TOTAL				R22520.00
Semester Two				
Physiology IB	PYSB10I	5	12	R4070.00
Professional Practice & Management I	PPRM10I	6	12	R2170.00
Ultrasound Imaging Sciences I	UMIS10I	5	8	R2720.00
Ultrasound Practice & Procedures IB	UPPB10I	6	12	R3260.00
Physics	PHIS10I	5	8	R2170.00
Clinical Ultrasound Practice & Procedure I	UPPC10I	6	8	R3260.00
Select One Module (IGE) from the List Below:				
Values in the Workplace	VWKP10I	5	8	R2170.00
ICT Literacy Skills	ICTL10I			R2040.00
Cultural Diversity	CLDV10I			R2040.00
TOTAL CREDITS			132	
TOTAL				R19270.00
Second Year Curriculum				
Semester Three				
Anatomy II	ANTM20I	5	12	R4880.00
General Pathology	GNLP10I	6	8	R2170.00
Professional Practice & Management II	PPRM20I	6	8	R2170.00
Ultrasound Practice & Procedures IIA	UPPA20I	6	16	R7600.00
Select One Module (IGE) from the List Below:				
HIV & Communicable Diseases in KZN	HCDK10I	6	8	R2170.00
The Global Environment	GENV10I			R2040.00
Select One Module (FGE) from the List Below:				
Environmental Awareness for Health Care Professionals	EVAH10I	6	12	R4880.00
IsiZulu for Health Care Professionals II	IZHP10I			
TOTAL				R23870.00
Semester Four				

Ultrasound Imaging Sciences II	UIMS201	6	16	R5430.00
Ultrasound Practice & Procedures IIB	UPPB201	6	16	R3260.00
Health Sciences Research I	HSRS101	6	12	R3260.00
Clinical Ultrasound Practice & Procedure II	UPPC201	6	16	R3260.00
TOTAL CREDITS			124	
TOTAL				R15210.000
Third Year Curriculum				
Semester Five				
Management for Health Professionals	MNHP101	6	8	R2170.00
Ultrasound Imaging Sciences III	UIMS301	7	16	R5430.00
Ultrasound Practice & Procedures IIIA	UPPA301	7	16	R6520.00
Leadership & Supervisory Development	LDS101	7	12	R4340.00
TOTAL			128	R18460.00
Semester Six				
Ultrasound Practice & Procedures IIIB	DPPB301	7	16	R6520.00
Health Sciences Research II	HSRS201	7	12	R4070.00
Ethics & Medical Law	ETML101	7	12	R4850.00
Select One Module (FGE) from the List Below:				
Educational Techniques	EDUT101	7	12	R4880.00
IsiZulu for Health Care Professionals II	IZHP301			
Select One Module (IGE) from the List Below:				
Equity & Diversity	EQDV101	7	8	R2040.00
The Entrepreneurial Edge	TENE101			R2170.00
Clinical Ultrasound Practice & Procedure III	UPPC301	6	16	R6520.00
TOTAL CREDITS			128	
TOTAL				R29010.00
Fourth Year Curriculum				
Semester Seven				
Professional Practice & Management III	PPRM302	8	12	R3270.00
Ultrasound Imaging Sciences IV	UIMS401	8	16	R5430.00
Ultrasound Practice & Procedures IVA	UPPA401	8	16	R5430.00
Health Sciences Research III	HSRS301	8	28	R4640.00
TOTAL			128	R18770.00
Semester Eight				
Ultrasound Practice & Procedures IVB	UPPB401	8	16	R5430.00
Small Business Management	SBSM101	6	8	R2170.00
Clinical Mentoring & Assessment	CLMA101	8	12	R4070.00
Clinical Ultrasound Practice & Procedures IV	UPPC401	6	20	R5430.00
TOTAL CREDITS			128	
TOTAL				R17100.00

Application

Applicants who wish to enrol for the programme must apply through the CAO system by no later than 30 September of the previous year.

For Application Forms

Address letters to:

Central Applications Office
Private Bag X06
Dalbridge
4014
Tel: (031) 2684444
Fax: (031) 2684422

OR

Apply online: <http://www.cao.ac.za>

CAO Codes: Diagnostic Radiography: **D U D R A D**
Diagnostic Sonography: **DUDRAS**
Radiotherapy: **DUDRTO**

Closing Date for Applications: 30 September 2022

For Further Information:

Contact the 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

Financial Aid:

For Financial Aid application for a DUT programme please apply online at www.nsfas.org.za or call the NSFAS call centre on 0860 067 327.

For an explanation on how to fill out the application form, please go to www.nsfas.org.za or contact the call centre on the number above.

Please note that completing a form does not guarantee Financial Aid. For further assistance, please consult the Department of Financial Aid and Scholarships on (031)3732931/2557/2054.

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