

Career Information

The department of Information Technology, situated at the Ritson campus, offers the following Information and Communications Technology (ICT) under-graduate qualifications:-

- Bachelor of ICT degree
- Diploma in ICT in Applications Development
- Diploma in ICT in Business Analysis
- Diploma in ICT in Applications Development (4-year)

The general information below pertains to all of the ICT programme offerings above.

Personal Attributes

An aptitude for puzzles, mathematics, logic and accuracy characterize the successful student. If you possess most of these qualities, you should consider a career in ICT.

Career Opportunities

On completion of a qualification graduates will be able to apply for the following positions: Programmer, Junior Analyst, Programmer/Analyst, Junior Database Administrator, End User Support, Business Analyst and many other related positions. The training offered prepares the student globally, since internationally acceptable software, textbooks, and training methods are used in all programmes.

Selection Procedure:

Meeting the minimum entry requirements does not automatically guarantee acceptance. It depends on the number of applicants and number of places allowed by DUT.

Bachelor of ICT [BICT] (Degree)

Description of the Programme

The Bachelor of ICT degree was formulated to reflect the latest workplace-based needs of the ICT industry in ensuring that qualifying learners can access employment opportunities within the industry. It is grounded in a fundamental body of computing knowledge.

Purpose of qualification

The structure and content of the BICT degree enables learners to build a solid knowledge base in the core fields of ICT and its related subjects. This qualification is intended to enhance readiness for further study in a wide variety of specializations within the Honours and Masters levels. It produces ICT graduates who are confident and articulate team players, and are attuned to the needs, methods and attitudes of business and society.

Entry Requirements for the Bachelor of ICT degree

DEPARTMENTAL NSC REQUIREMENTS		DEPARTMENTAL SENIOR CERTIFICATE REQUIREMENTS	
NSC Degree Entry		A Senior Certificate with Matriculation Exemption	
Compulsory Subjects	NSC Rating Code	Compulsory Subjects	HG
English (home) OR English (1st additional)	4	English	D
Mathematics	4	Mathematics	D
And at least one of the following subjects: Physical Science OR Information Technology OR Engineering Design.	4	And at least one of the following subjects: Physical Science OR Information Technology	D

Please Note: these entrance requirements are subject to change, please check CAO and DUT website regularly.

OR

A National Certificate Vocational (NCV) Level 4 with the following minimum requirements:

- at least 60% in three fundamental subjects including English and Mathematics and
- at least 70% in four vocational subjects relevant to the field of Information Technology.

Fees: First year are approximately R45 000.00

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

Curriculum

First Year: (all compulsory)

Cornerstone 101	Business Fundamentals 1
Business Fundamentals 2	Introduction to Computing
Discrete Structures	Software Development Fundamentals
Mathematics for Computing 1A	Mathematics for Computing 1B
Systems Fundamentals	Interpersonal Communication & Self

Second Year: (all compulsory)

Systems Analysis & Design 2	Organizational Behaviour 2
Algorithms & Data Structures 2	Networks & Operating Systems 2
Programming Languages 2	Information Management 2
Entrepreneurship spirit	Information Assurance & Security 2
Law for Life	Computer Organization & Architecture 2

Third Year:

Compulsory:

Software Engineering 3	Platform Based Development 3
Application Project 3A	Social & Professional Issues 3
Application Project 3B	Integrative Programming & Technology 3
Industry Exposure	

Electives, any 2 of the following:

Project Management 3	Strategy Acquisition & Management 3
Business Intelligence 3	Parallel & Distributed Computing 3
Machine Intelligent 3	Human Computer Interaction 3
Graphics 3	Web Systems & Technology 3

Diplomas in Information & Communications Technology

(Specialising in Applications Development and Business Analysis)

A career in ICT is a career path of endless opportunities and diversity. The Diploma in ICT offers the opportunity to work in any industry, anywhere in the world. Careers in the ICT Industry range from highly technical positions such as Software or Web Developers to more business orientated positions such as Business Analysts.

Students wishing to pursue this career path must have the character and perseverance to work in dynamic environments. A basic skill that tends to categorize an ICT specialist is the ability to think and express oneself logically; therefore, students possessing these skills would be ideal candidates for this programme.

Diploma in ICT in Applications Development

Purpose of qualification

The purpose of the diploma is to provide a professional, vocational or career focused qualification for the ICT industry. The knowledge emphasizes general principles and applications. Further the diploma will develop learners who can demonstrate focused knowledge and skills to design and produce software products and systems to meet specified needs so that they work reliably and their production and maintenance is cost effective. This specialization expands the purpose of the qualification by enabling a graduate (diplomat) to conceptualize, design, implement & test application development solutions to address industry related ICT initiatives.

Fees: First year are approximately R35 000.00

Curriculum

First Year:

Cornerstone 101	Fundamentals of Computer Security
Information Systems 1	Business Fundamentals 1
ICT Literacy and Skills	Applications Development 1A
Me, My world, My Universe	Applications Development 1B
Operating Systems	Communications Networks 1
Applications Development Project 1	

Second Year:

Business Fundamentals 2	Mobile Computing 2A
Information Systems 2A	Applications Development 2A
Information Management 2A	IT Project Management
Mobile Computing 2B	Community Engagement Project
Information Systems 2B	Applications Development 2B
Information Management 2B	Applications Development Project 2

Third Year:

Information Systems 3A	Applications Development 3A
Information Systems 3B	Human Computer Interaction
Entrepreneurial Spirit	Applications Development 3B
Theory of ICT Professional Practice 3	
Applications Development Project 3A	
Applications Development Project 3B	

Diploma in ICT in Business Analysis

Purpose of qualification

The purpose of the diploma is to provide a professional, vocational or career focused qualification for the ICT industry. The knowledge

emphasizes general principles and applications. Furthermore, the diploma will develop students who can demonstrate focused knowledge and skills in Business Analysis and use Information and Communications Technology (ICT) in industry to solve business problems. Furthermore, they will be able to analyse business environments and create specifications for ICT solutions to facilitate the alignment of IT and business processes.

Fees: First year are approximately R35 000.00

Curriculum

First Year:

Cornerstone 101	Fundamentals of Computer Security
Business Fundamentals 1	Me, My world, My Universe
ICT Literacy and skills	Applications Development 1A
Law for Life	Applications Development 1B
Financial Accounting 1	Business Information Systems 1
Business Analysis Project 1	

Second Year:

Business Fundamentals 2	Applications Development 2A
Business Analysis 2A	Information Management 2A
IT Project Management	Information Management 2B
Business Analysis 2B	Applications Development 2B
Business Analysis Project 2	Theory of Internal Auditing 2
Business Information Systems 2	
Computer Applications in Business and Finance 2	

Third Year:

Business Analysis 3A	Business Analysis Project 3A
Business Analysis 3B	Business Analysis Project 3B
Business Information Systems 3A	Entrepreneurial Spirit
Business Information Systems 3B	
Theory of ICT Professional Practice 3	

Entry Requirements for the Diploma in ICT in Applications Development and Diploma in ICT in Business Analysis

DEPARTMENTAL NSC REQUIREMENTS		DEPARTMENTAL SENIOR CERTIFICATE REQUIREMENTS		
Compulsory Subjects NSC Diploma Entry	NSC Rating Code	Compulsory Subjects	HG	SG
English (home) OR English (1st additional)	3 4	English	E	C
Mathematics OR Mathematics Literacy	3 6	Mathematics	E	C
And two 20 credit subjects (not more than one language)	3			

OR

The minimum entrance requirements are:

A National Certificate Vocational (NCV) with:

- ❖ at least 50% in three fundamental subjects including English and Mathematics and
- ❖ at least 60% in three compulsory vocational subjects.

Entry Requirements for the Diploma in ICT in Applications Development (4-year Foundation programme)

DEPARTMENTAL NSC REQUIREMENTS		DEPARTMENTAL SENIOR CERTIFICATE REQUIREMENTS		
Compulsory Subjects NSC Diploma Entry	NSC Rating Code	Compulsory Subjects	HG	SG
English (home) OR English (1st additional)	3 3	English	E	C
Mathematics OR Mathematics Literacy	3 5	Mathematics	E	C
And two 20 credit subjects (not more than one language)	3			

OR

A National Certificate Vocational (NCV) with:

- ❖ at least 50% in three fundamental subjects including English and Mathematics and
- ❖ at least 60% in three compulsory vocational subjects.

Note: These requirements represent the minimum and students will be ranked according to a points system based on the rating code

Closing Date for Applications: 30 September 2019

Students wishing to pursue a career in this field need to apply via the CAO before the closing date.

CAO Codes

- Bachelor of ICT degree DU-D-BIT
- Diploma in ICT in Applications Development DU-D-APD
- Diploma in ICT in Business Analysis DU-D-BUA
- Diploma in ICT in Applications Development (4-year Foundation) DU-D-APF

For further information, contact the Department of Information Technology, Block B, 2nd Floor, Ritson Campus
Tel: 031 373 5596/63/95/46
Email: ITdept@dut.ac.za

Application forms

Contact the Central Applications Office (C.A.O)
Private Bag X06, Dalbridge, 4014
Tel: 031 268 4444
Fax: 031 268 2244
Apply online on <http://www.cao.ac.za>



CAREER INFORMATION

INFORMATION
& COMMUNICATIONS
TECHNOLOGY

1 JANUARY -31 DECEMBER

DEPARTMENT OF
INFORMATION
TECHNOLOGY

2020

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