

Career Information

Diploma in Textile Technology

Location:

Steve Biko Campus (S5 & S6 Level 4)

Description of the Programme

The three-year qualification in Textile Technology is designed to prepare individuals for a wide range of specialist career opportunities in the industrial manufacture of textile fibres, yarns, and fabrics, as well as the colouration and finishing thereof. This is based on a foundation in mathematics, chemistry and physics.

During the first two years of study, students learn a broad range of manufacturing routes including the manufacture of the main fibre types, the principle yarn manufacturing processes, and the knitting, nonwoven, and woven fabric manufacturing routes, the chemistry and processing associated with the principle dyeing, printing, and finishing stages of manufacture.

In the final year students specialize in either the 'wet' or the 'dry' side of the industry.

The Dry side covers a range of specialized manufacturing processes, including the principle yarn manufacturing methods and woven fabric manufacturing routes.

The Wet side covers the chemistry and processing associated with the dyeing, printing, and finishing stages of manufacture, as well as colour physics.

In addition, this qualification includes other important areas of knowledge, such as textile testing, product development, and some management content.

The program is designed to prepare students with a broad range of textile knowledge, to provide entrance into the extremely diverse local textile manufacturing operations. Graduates of the diploma would be able to display technical qualities appropriate to the manufacturing environment and demonstrate environmental responsibilities.

Working Conditions

The textile industry includes some state of the art local manufacturing units with challenging opportunities for technicians in the field of fabric manufacture. A Textile Technologist may work in a textile mill or factory, a laboratory or for a retailer.

Personal Qualities Required

Textile Technology involves teamwork, therefore, one needs to be able to work and co-operate with colleagues.

A scientific background is important as well as an aptitude for design work. It is necessary to have a working knowledge and understanding of the basics of textiles and clothing.

Career opportunities

Excellent opportunities exist in production, fabric development, marketing, and quality control departments, in a range of textile and associated companies. Promotion routes after further study and work experience may in due course lead to senior appointments in production and marketing areas of the manufacturing industry, Clothing industry, Sales person and Advisor.

Explanation of Points scale:

symbol	Senior Certificate	
	Higher Grade	Standard Grade
A	8	6
B	7	5
C	6	4
D	5	3
E	4	2
F	3	1

%	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

DEPARTMENTAL NSC REQUIREMENTS		DEPARTMENTAL SENIOR CERTIFICATE REQUIREMENTS		
NSC Diploma Entry	NSC Rating Code	A Senior Certificate or equivalent qualification.		
Compulsory Subjects		Compulsory Subjects	HG	SG
English (home) OR English (1st additional)	4	English	E	D
Mathematics	4/3*	Mathematics	E*	E/D*
Physical Science	3/4*	Physical Science	E*	E/D*

*Notwithstanding the minimum NSC points above, Maths

+ Science must total a minimum of 7 NSC points.

Similarly either Maths or Physical Science should be at SG D (or HG E).

OR

NCV entry requirements level 4:

With English at 50% and Maths and Physical Science at 60%.

OR

Admission Requirement based upon Work Experience, Age and Maturity

For admission to entry level diploma and certificate studies:

A person may, subject to such requirements as the Senate may determine, be admitted to the Institution even if such a person is not in a possession of a National Senior Certificate, Senior Certificate or an equivalent certificate, 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 at the discretion of the respective Head of Department 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) and/or an appropriate subject or programme specific written assessment designed and marked by the relevant Department; and

(b) The relevant Faculty Board shall be satisfied that the person's standard of communication skills, ability to study successfully and/or work experience are such that the person, in the opinion of the relevant Faculty Board, should be able to complete the proposed instructional programme successfully. If required, the communication skills and study skills should be tested; and

(c) 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

Additional Entry Requirements

Applicants will also write the DUT SATAP English Literacy test, and SATAP Math and Science assessments to determine potential. Applicants obtaining less than 50% on this assessment with no special consideration (i.e. mature age application, industry experience and letter from employer) may be conditionally accepted.

Tuition Fees

To assist you with your planning, the **2019** fees have been indicated.

PLEASE NOTE: DUT cannot be held liable for the fees in this brochure as the **2020** fees are not yet final.

First Year Curriculum:

Semester One

Cornerstone 101
Chemistry I
Physics I
Survey of the Textile Industry I
Information & Comm Tech Literacy & Skills

Total

2019 Fees

R2 950
R3 420
R4 330
R4 760
R1 850
R17 310

Semester Two

Weaving Preparation	R3 760
Mathematics I	R4 010
Textile Materials	R3 760
Yarn Technology II	<u>R4 760</u>
Total	<u>R16 290</u>

Second Year Curriculum

Semester Three

Product Engineering, I	R4 760
Weaving Technology II	R4 760
Knitting Technology	R3 760
Colouration Technology II	<u>R4 760</u>
Total	<u>R18 040</u>

Semester Four

Community Engagement & Development	R2 950
Textile Practice Research Project	R7 060
Introduction to Technopreneurship	R1 710
Applied Science and Wellness	<u>R2 950</u>
Total	<u>R14 670</u>

Third Year Curriculum

Semester Five

Production Organisation	R1 820
Product Engineering II	R3 760
Non-Woven Technology	R3 760
Finishing Technology	R3 760
Values in the Workplace	R1 970
Role of Applied Science in Society	<u>R2 730</u>
Total	<u>R17 800</u>

Semester Six

Industrial Studies	R3 760
Testing and Statistics	R5 010

Student to select either dry or wet option only:

Dry Option:

Weaving Technology III	R4 760
Yarn Technology III	R3 760

Wet Option:

Colouration Technology III	R4 760
Chemistry & Colour Physics	<u>R3 760</u>
Total	<u>R17 290</u>

FOR FURTHER INFORMATION

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APPLICATION FORMS

Contact the Central Applications Office (C.A.O)

CAO Code: N. Dip. - DUDTT3

Address letters to:

Central Applications Office Private Bag X06
Dalbridge
4014

Tel: (031) 2684444

Fax: (031) 2684422

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

Closing Date for applications: 30 September 2019

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)373 2931/2557/2054.



CAREER INFORMATION

**DIPLOMA IN
TEXTILE
TECHNOLOGY**

1 JANUARY - 31 DECEMBER

2020