



Central University of
Technolog

INTERNATIONAL OFFICE

ACHIEVE BEYOND

STUDENT

X-CHANGE

COURSE CATALOGUE



www.cut.ac.za

INTERNATIONAL OFFICE

STUDENT EXCHANGE COURSE CATALOGUE

It is our pleasure to present to you our exchange programme catalogue in promoting CUT to international partners. This catalogue includes different courses that are available for exchange students. We have added some of the interesting facts about CUT in this catalogue.

We trust you will find this useful and interesting.

Regards
CUT International Office



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THE DIRECTOR'S NOTE



Leolyn Jackson – Director : Centre for Global Engagement

The Central University of Technology, Free State (CUT) is a leading higher education institution in the heartland of South Africa. CUT's vision is to be "an engaged university that focuses on producing quality social and technological innovations for socio-economic development, primarily in the Central region of South Africa". The university has two campuses – one in Bloemfontein, the judicial capital of South Africa, and one in Welkom, in the heart of the Free State goldfields. The two campuses offer education opportunities in a number of technological fields, including science, technology, engineering and mathematics (STEM); management sciences; humanities; and education.


The Centre for Global Engagement (CGE), formerly known as the “International Office”, contributes to CUT’s vision and mission in terms of international higher education. The CGE’s mission is to:

- assist with the internationalisation of CUT, as well as with the university’s core business of research and innovation, learning and teaching, resources and operations, and student academic services;
- assist CUT to make a social impact;
- build and strengthen sustainable academic partnerships and alliances to support CUT’s academic and non-academic projects;
- source external funding opportunities to sustain our internationalisation endeavours;
- enhance the effectiveness and efficiency of international student support services;
- further enhance our staff and student mobility projects;
- further enhance our Internationalisation at Home (IaH) activities, by linking local and global minds; and
- help develop scholarships in the Southern African Development Community (SADC) region, Africa and the rest of the world.

In addition, we would like to offer agile responses to the ever-changing international higher education environments.

The university annually enrolls between 500 and 650 full-degree international undergraduate and postgraduate students. On any given day, you might find nationalities from close to 30 countries worldwide at CUT, of whom at least 80% are from Africa. Between 60 and 70 international students, mostly from Europe, are also enrolled in short learning programmes at the university on an annual basis. It is our goal to increase the number of international students in our full-degree programmes to 1 500 within the next eight years, and the student enrolment figure for short learning programmes to 300 within the next five years.

CUT values our international students, as they increase the social and cultural diversity of our campuses. Through your interaction with our local students and communities, you enrich our research and innovation, learning and teaching, and social engagement environment. In addition, together, local and global students develop internationally relevant skills. Our PhD



and postdoctoral fellows bring new research ideas and expertise to CUT, and help to further strengthen our international academic partnerships. As graduates, our international students increase the country's soft power when they return home and become informal ambassadors for the university, the Free State, South Africa, and Africa.

The global COVID-19 pandemic clearly reminded us of our interdependency and interconnectedness. It united us within a new "normal". It forced us to connect with one another on virtual platforms. However, it also demonstrated the many inequalities within the world. Similar to many other South African universities, CUT has adopted a hybrid model for teaching and learning from 2015.

In addition, the university has been enhancing its online offerings to students since April 2020, in line with the COVID-19 regulations.

Increasing CUT's student diversity remains important. International students enrolling at CUT enable our local students to see the world through a different lens. The many local and global perspectives on a subject matter create a learning environment that allows students to gain the required insights and knowledge to make informed decisions and to be globally responsible citizens.

In conclusion, the CGE hosted many exchange students over the years, and each one of them has a unique story to share. We would like to reach out to all international students who want to have similar unique short-term experiences at CUT and in South Africa.

STUDY ABROAD LETTER



Martina Moss: Study Abroad Coordinator

Greetings!

Humankind is facing a global crisis – perhaps the biggest one of our generation. Thus far during the 2020 academic year, we have noticed dramatic changes as we respond to the global pandemic. COVID-19 has disrupted our lives, affecting how we do business, and forcing us to change, and swiftly adapt to a new “normal”. In some instances, this meant that we quickly had to learn to use technology effectively and efficiently, and to embrace an individual and global solidarity approach, demonstrating our dependency on one another. This applies to both baby boomers and Generation X, who are normally regarded by Generations Y and Z as those “born before technology”. At institutions of higher learning worldwide, this year will go down as the year during which all generations raced against time to navigate online education in order to save the academic year for both students and universities. This is in line with the current recurring

narrative and the ever-increasing present theme of the Fourth Industrial Revolution (4IR). Whilst student mobility in terms of student exchanges and Internationalisation at Home (IaH) remains an important aspect of internationalisation, we have to remain calm, and focus on what we as Senior International Officers do best, which is the facilitation of studying abroad. How can we do so during this difficult time, when many countries have travel bans, and governments recall their students, so that they could be with their loved ones, due to the uncertainty of when this pandemic will end?

In an effort to adapt and change, CUT's Centre for Global Engagement (International Office), via its Study Abroad Office, has developed an e-course catalogue, designed specifically for student mobility/studying abroad. The catalogue is especially aimed at our prospective exchange students who are thinking of taking up mobility with us at CUT, whether online or physically at one of CUT's campuses in Bloemfontein and Welkom. This catalogue is filled with all the popular courses for which you could enrol in the Faculty of Engineering, Built Environment and Information Technology (FEBIT) and the Faculty of Management Sciences (FMS).

The following qualifications are offered on semester bases by CUT:

- Certificate – two semesters (approximately six months) – 1st and 2nd semesters.
- Diploma – six semesters: 1st – 6th semester.
- Advanced diploma – two semesters: 7th to 8th semester.
- Postgraduate diploma – two semesters: 9th – 10th semester.
- Master's degree – four semesters: 11th – 14th semester.
- PhD – 15th semester, until you are able to finish the degree. The duration of study is a minimum of three years, and a maximum of five years.

Weights are also attached to each course. 2 South African credits are equivalent to 1 European Credit Transfer & Accumulation System (ECTS), whilst 4 American credits are equivalent to 1 South African credit. Please remember to convert the weights accordingly.

One of the easiest ways for you to complete a semester at CUT, is if your university has a partnership with CUT. If not, you could study with us as a free-mover student, which means you will pay for your semester course fees, whilst partner university students have alternative payment arrangements.



We have a beautiful residence called the “Graduandi House” that accommodates our exchange students, full-degree-seeking international students, and some local postgraduate students.

We all know that part of the reason that students engage in mobility is to explore the host country, language and culture. Through excursions, CUT offers exchange/international students exactly that –the opportunity to explore South Africa and its beautiful tourist attractions.

If you are interested in studying at CUT, you can access the Study Abroad Application form via www.cut.ac.za, complete it in typed form, and return it to me via e-mail at mmoss@cut.ac.za. Please feel free to contact me at the aforementioned e-mail address if you have any further questions, and I will be happy to assist you.

We look forward to welcoming you at CUT in 2021 and beyond!



ACADEMIC OFFERINGS



FACULTY OF MANAGEMENT SCIENCES

FACULTY OF MANAGEMENT SCIENCES

The following **Diploma Programmes** are offered in the Faculty of Management Sciences:

- Diploma in Human Resources Management
- Diploma in Marketing Management
- Diploma in Public Management
- Diploma in Tourism Management

The following **Advanced Diploma Programmes** are offered in the Faculty:

- Advanced Diploma in Applied Management
- Advanced Diploma in Human Resources Management
- Advanced Diploma in Marketing Management
- Advanced Diploma in Public Management
- Advanced Diploma in Tourism Management

The following **Postgraduate Diploma Programmes** are offered in the Faculty:

- Postgraduate Diploma in Entrepreneurial Management
- Postgraduate Diploma in Project Management

DIPLOMA OFFERINGS

DIPLOMA IN HUMAN RESOURCES MANAGEMENT

PROGRAMME CODE: DP_HRM (DURATION: 3 YEARS)

SAQA CREDITS: 360
HEMIS CREDITS: 3.000

MINIMUM CREDITS REQUIRED: 384
NQF LEVEL: 6

1ST YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 1	SEMESTER 2			
LCS5011	LCS5012	Academic Literacy and Communication Studies	12	6
	DLC5012	Basic Digital Literacy	6	3
BMI115E	BMI125E	Business Management I	22	11
HRM115E	HRM125E	Human Resources Management I	24	12
ARG11AB	ARG12AB	Labour Law I	24	12
	MFB122	Mathematics for Business	6	3
QTH115E	QTH125E	Quantitative Techniques I	24	12
AHP115E	AHP125E	Accounting for Human Resources Practitioners I	24	12
TOTAL:			142	71

2ND YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 1	SEMESTER 2			
BMI216E	BMI226E	Business Management II	22	11
HRI115C	HRI125C	Human Resources Information System	24	12
HRM216E	HRM226E	Human Resources Management II	24	12
IRS116E	IRS126E	Industrial Relations I	24	12
MOT116E	MOT126E	Management of Training I	24	12
TOTAL:			118	59

3RD YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 1	SEMESTER 2			
BMI316E	BIM326E	Business Management III	22	11
HRM316E	HRM326E	Human Resources Management III	24	12
IRS216E	IRS226E	Industrial Relations II	24	12
MOT216E	MOT226E	Management of Training II	24	12
HRM116W	HRM126W	Work-integrated Learning for Human Resources Management	30	15
TOTAL:			124	62

DIPLOMA IN MARKETING MANAGEMENT

PROGRAMME CODE: DP_MKT (DURATION: 3 YEARS)

SAQA CREDITS: 360
HEMIS CREDITS: 3.000

MINIMUM CREDITS REQUIRED: 360
NQF LEVEL: 6

1ST YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 1	SEMESTER 2			
LCS5011	LCS5012	Academic Literacy and Communication Studies	12	6
BMI115C	BMI125C	Business Management I	24	12
EKN11EB	EKN12EB	Economics I	24	12
MRK115C	MRK125C	Marketing I	24	12
PSE115C	PSE125C	Personal Selling I	24	12
	DLC5012	Basic Digital Literacy	6	3
	MFB122	Mathematics for Business	6	3
Total:			120	60

2ND YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 1	SEMESTER 2			
ACM115C	ACM125C	Accounting for Marketers I	24	12
CBE215E	CBE225E	Consumer Behaviour II or	24	12
INB215E	INB225E	International Business Management II	24	12
IBM215E	IBM225E	International Marketing II or	24	12
MRK215E	MRK225E	Marketing II	24	12
HRG11AB	HRG12AB	Mercantile Law I	24	12
QTH115C	QTH125C	Quantitative Techniques I	24	12
	MKT125W	Work-integrated Learning for Marketing	12	6
TOTAL:			132	66

3RD YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 1	SEMESTER 2			
IMC316C	IMC326C	Integrated Marketing Communication	24	12
IBM316E	IBM326E	International Marketing III or	24	12
MRK316E	MRK326E	Marketing III	24	12
MRE316C	MRE326C	Marketing Research	24	12
IFN316E	IFN326E	International Finance III or	24	12
SMN316E	SMN326E	Sales Management III	24	12
MKT216W	MKT226W	Work-integrated Learning for Marketing	24	12
TOTAL:			120	60

DIPLOMA IN PUBLIC MANAGEMENT

PROGRAMME CODE: DP_PBM (DURATION: 3 YEARS)

SAQA CREDITS: 120
HEMIS CREDITS: 3.000

MINIMUM CREDITS REQUIRED: 120
NQF LEVEL: 6

1ST YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 1	SEMESTER 2			
LCS5011	LCS5012	Academic Literacy and Communication Studies (Semester 1 & 2)	12	6
NMR11AB		Numeracy	6	3
PIM5011	PIM5012	Personal Information Management	0	0
PTS11AB		Public Information Services I	19	9.5
POM11AB		Public Office Management and Customer Service I	19	9.5
PEM11AB		Public Resource Management I	19	9.5
	PSD12AB	Local Government Service Delivery Management I	19	9.5
	PDM12AB	Public Decision-making I	19	9.5
	PTS12AB	Public Information Services I	19	9.5
	SLM12AB	Self-management I	19	9.5
Total:			132	66

2ND YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 1	SEMESTER 2			
PAM21AB		Public Administration & Management II	19	9.5
PFM21AB		Public Financial Management II	19	9.5
PHR21AB		Public Human Resources Management II	19	9.5
	INC22AB	Intersectoral Collaboration	19	9.5
	PLM22AB	Procurement & Supply Chain Management II	19	9.5
	POB22AB	Public Project Management II	19	9.5
Total:			114	57

3RD YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 1	SEMESTER 2			
FPM31AB		Financial & Procurement Management III	19	9.5
PAM31AB		Public Administration & Management III	19	9.5
PHR31AB		Public Human Resources Management III	19	9.5
	PCS32AB	Policy Studies III	19	9.5
	PGB32AB	Programme Management III	19	9.5
	PMP32AB	Public Management Practice & Work-integrated Learning III	19	9.5
Total:			114	57

DIPLOMA IN TOURISM MANAGEMENT

PROGRAMME CODE: DP_TRM (DURATION: 3 YEARS)

SAQA CREDITS: 360
HEMIS CREDITS: 3.000

MINIMUM CREDITS REQUIRED: 382
NQF LEVEL: 6

1ST YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 1	SEMESTER 2			
	LCS5012	Academic Literacy & Communication Studies	6	3
	ADC5022	Advanced Digital Literacy	6	3
DLC5011		Basic Digital Literacy	6	3
	EVM125E	Event Management I	6	3
FRE115E	FRE125E	French I or	12	6
GRR115E	GRR125E	German I	12	6
NMR5011		Numeracy	6	3
TOD115E	TOD125E	Tourism Development I	18	9
TFM115E	TFM125E	Tourism Financial Management I	12	6
TIL115E		Tourism Industry Law I	6	3
TOM115E	TOM125E	Tourism Management I	18	9
TMR115E	TMR125E	Tourism Marketing I	18	9
TOP115E	TOP125E	Tourism Practice I	18	9
Total:			132	66

2ND YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 1	SEMESTER 2			
EVM216E	EVM226E	Event Management II	12	6
	HOT126E	Hospitality Operations I	6	3
TOD216E	TOD226E	Tourism Development II	24	12
TFM216E	TFM226E	Tourism Financial Management II	12	6
COM115E	COM125E	Tourism Media and Communication I	12	6
TOM216E	TOM226E	Tourism Management II	12	6
TMR216E	TMR226E	Tourism Marketing II	18	9
TOP216E	TOP226E	Tourism Practice II	24	12
TSE116E		Tourism Service Excellence I	6	3
Total:			126	63
3RD YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 1	SEMESTER 2			
CUL115E		Culture Studies I	4	2
GAL115E		Galileo Travelport	0	0
HOT217E		Hospitality Operations II	6	3
PRJ115E		Project Administration I	6	3
TOD317E		Tourism Development III	12	6
TOM317E		Tourism Management III	12	6
TMR317E		Tourism Marketing III	12	6
TOP317E		Tourism Practice III	12	6
	TRM327W	Work-integrated Learning for Tourism Management	60	30
Total:			124	62

ADVANCED DIPLOMA OFFERINGS

ADVANCED DIPLOMA IN APPLIED MANAGEMENT

PROGRAMME CODE: AD_APM (DURATION: 1 YEAR FULL-TIME)

SAQA CREDITS: 144
HEMIS CREDITS: 1.000

MINIMUM CREDITS REQUIRED: 144
NQF LEVEL: 7

1ST YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 1	SEMESTER 2			
MFM417		Management Fundamentals for First-Line Managers	12	6
PCM417		Procurement Management	12	6
QFT417		Quantitative Techniques and Basic Financial Analysis Tools	12	6
IMG417		International Business Management	12	6
RBP417		Responsible Business Practice	12	6
RSS417		Research Skills	12	6
	PMF427	Project Management Fundamentals	12	6
	MEF427	Monitoring and Evaluation Fundamentals	12	6
	STM427	Strategic Management	12	6
	SCM427	Supply Chain Management	12	6
	EPP427	Entrepreneurship Principles and Practices	12	6
	INP427	Industry Project	12	6
Total:			144	77

ADVANCED DIPLOMA IN HUMAN RESOURCES MANAGEMENT

PROGRAMME CODE: AD_HRM (DURATION: 1 YEAR FULL-TIME)

SAQA CREDITS: 120
HEMIS CREDITS: 1.000

MINIMUM CREDITS REQUIRED: 120
NQF LEVEL: 7

1ST YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 1	SEMESTER 2			
AHI417		Advanced HRM: Individual Behaviour	12	6
HCE417		Advanced Human Capital Development: ETD Environment	12	6
ERD417		Advanced ERM: Dispute Resolution	12	6
FSP417		Fundamentals of Strategic Planning	12	6
FRM417		Fundamentals of Research Methodology	12	6
	AHO427	Advanced HRM: Organisational Behaviour	12	6
	HCI427	Advanced Human Capital Development: ETD Interventions	12	6
	ERA427	Advanced ERM: Application of ERM Theory	12	6
	SIA427	Strategy in Action	12	6
	TRP427	The Research Process	12	6
Total:			120	60

ADVANCED DIPLOMA IN MARKETING

PROGRAMME CODE: AD_MKT (DURATION: 1 YEAR FULL-TIME)

SAQA CREDITS: 120
HEMIS CREDITS: 1.000

MINIMUM CREDITS REQUIRED: 120
NQF LEVEL: 7

1ST YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 1	SEMESTER 2			
FSP417		Fundamentals of Strategic Planning	12	6
FRM417		Fundamentals of Research Methodology	12	6
ISM417		Introduction to Strategic Marketing	12	6
MMF417		Managing Marketing Finance OR	12	
MPT417		Macroeconomics: Performance Monitoring and Trends	12	
MPF417		Marketing Plan Fundamentals	12	6
	SIA427	Strategy in Action (Implementation Drivers)	12	6
	TRP427	The Research Process	12	6
	SMD427	Strategic Marketing Development	12	6
	EMF427 / MFP427	Evaluation Marketing Finance OR Macroeconomics: Fluctuations and Policy	12	6
Total:			120	60

ADVANCED DIPLOMA IN TOURISM MANAGEMENT

PROGRAMME CODE: AD_TRM (DURATION: 1 YEAR FULL-TIME)

SAQA CREDITS: 120
HEMIS CREDITS: 1.000

MINIMUM CREDITS REQUIRED: 120
NQF LEVEL: 7

1ST YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 1	SEMESTER 2			
TSM41AT	TSM42AT	Strategic Managements	32	16
TRM11AS	TRM12AS	Research Methodology	24	12
TMR41AT	TMR42AT	Strategic Marketing in Tourism	32	16
TRD40AS	TRD40AS	Sustainable Tourism and Destination Development	32	16
Total:			120	60

POSTGRADUATE DIPLOMA IN ENTREPRENEURIAL MANAGEMENT

PROGRAMME CODE: PD_ENT (DURATION: 1 YEAR FULL-TIME)

SAQA CREDITS: 144
HEMIS CREDITS: 1.000

MINIMUM CREDITS REQUIRED: 144
NQF LEVEL: 8

1ST YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 1	SEMESTER 2			
EEC518		Entrepreneurship and Enterprise Creation	12	6
PJM518		Project Management	12	6
LCM518		Leadership and Change Management	12	6
MFM518		Marketing for Managers	12	6
RSM518		Research Methodology – Theory	12	6
MWG518		Managing with Integrity	12	6
	STE528	Strategic Entrepreneurship	12	6
	GSB528	Global strategies in business	12	6
	HMO528	Managing Human Capital, Multi-Culture & Behaviour in Organizations	12	6
	RSP528	Research Methodology – Practical Projects	12	6
	SCM528	Operations and supply chain management	12	6
	AFM528	Accounting for managers	12	6
Total:			144	77

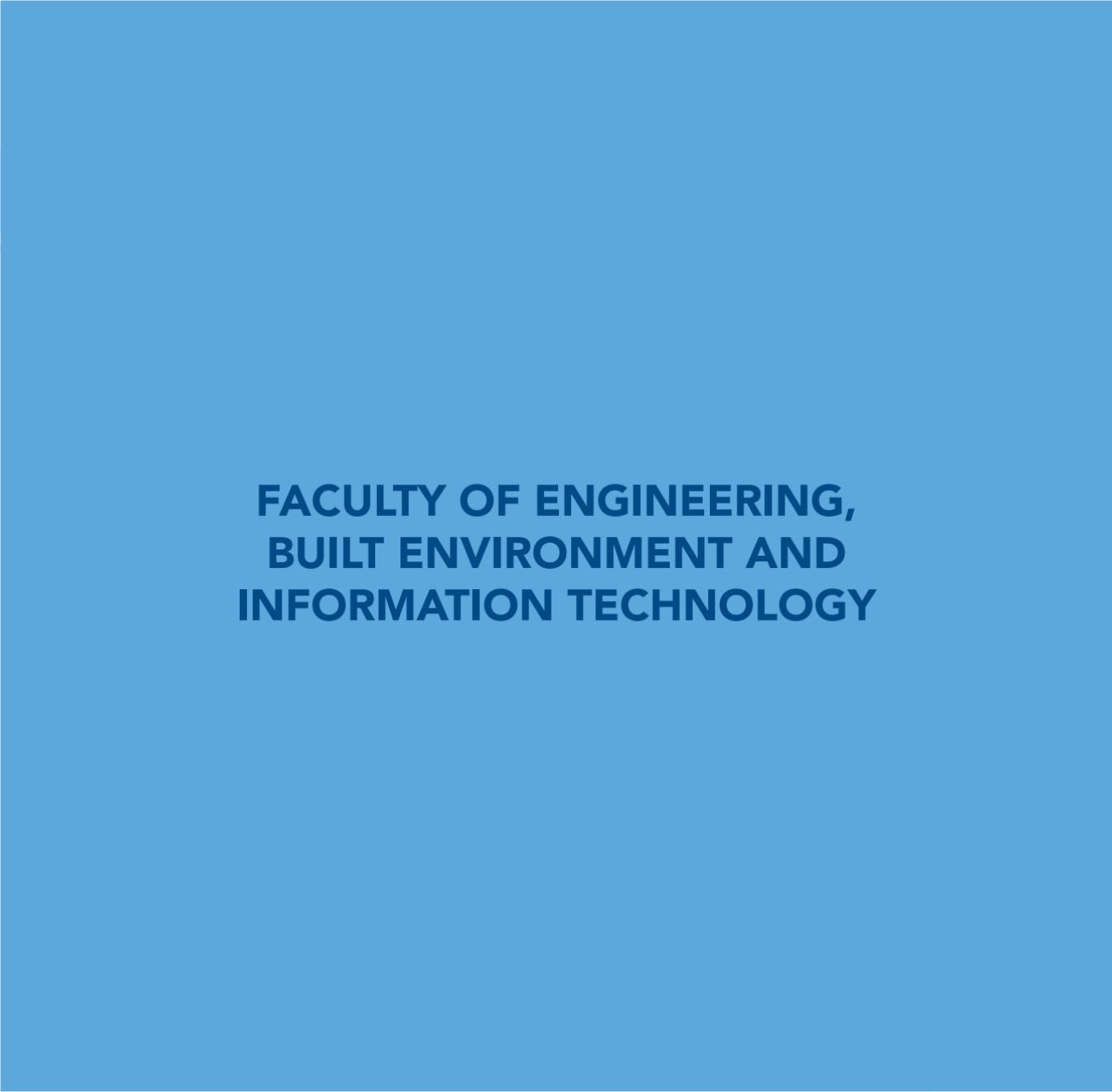
POSTGRADUATE DIPLOMA IN PROJECT MANAGEMENT

PROGRAMME CODE: PD_PJM (DURATION: 1 YEAR FULL-TIME)

SAQA CREDITS: 144
HEMIS CREDITS: 1.000

MINIMUM CREDITS REQUIRED: 144
NQF LEVEL: 8

1ST YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 1	SEMESTER 2			
PMP518		Project Management Process Theory	12	6
PJS518		Project Scheduling	12	6
PCM518		Project Cost Management	12	6
PRM518		Project Risk Management	12	6
PJP518		Project Procurement	12	6
RSM518		Research Methodology	12	6
	PHC528	Project Human Resources Management and Communication	12	6
	PMG528	Project Management with Integrity	12	6
	PQM528	Project Quality Management	12	6
	PMP528	Project Management Process in Practice	12	6
	SME528	Strategic Management & Entrepreneurship	12	6
	RSP528	Research Project	12	6
Total:			144	77



**FACULTY OF ENGINEERING,
BUILT ENVIRONMENT AND
INFORMATION TECHNOLOGY**

FACULTY OF ENGINEERING, BUILT ENVIRONMENT AND INFORMATION TECHNOLOGY

The following **Higher Certificate Programmes** are offered in the Faculty:

- Higher Certificate in Information Technology
- Higher Certificate in Renewable Energy Technologies
-

The following **Diploma Programmes** are offered in the Faculty:

- Diploma in Computer Networking
- Diploma in Information Technology

The following **Advanced Diploma Programme** is offered in the Faculty:

- Advanced Diploma in Logistics and Transportation Management Advanced Diploma in Computer Networking

The following **Bachelor of Engineering Technology Programmes** are offered in the Faculty:

- Bachelor of Engineering Technology in Civil Engineering
- Bachelor of Engineering Technology in Mechanical Engineering
- Bachelors in Engineering Technology in Electrical engineering

DIPLOMA OFFERINGS

HIGHER CERTIFICATE IN INFORMATION TECHNOLOGY

PROGRAMME CODE: HC_ITC (DURATION: 1 YEAR)

SAQA CREDITS: 132
HEMIS CREDITS: 1.000

MINIMUM CREDITS REQUIRED: 132
NQF LEVEL: 5

1ST YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 1	SEMESTER 2			
LCS5011		Academic Literacy and Communication Studies IA	6	3
INL115C		Information Systems IA	18	9
ITS115C		Information Technology (IT) Technical Support IA	18	9
SYS115C		System and Application Software IA	12	6
USS115C		User Support IA	12	6
	LCS5012	Academic Literacy and Communication Studies IB	6	3
	INL125C	Information Systems IB	18	9
	ITS125C	Information Technology (IT) Technical Support IB	18	8
	SYS125C	System and Application Software IB	12	6
	USS125C	User Support IB	12	6
Total:			132	66

HIGHER CERTIFICATE IN RENEWABLE ENERGY TECHNOLOGIES

PROGRAMME CODE: IEHCRE (DURATION: 1 YEAR)

SAQA CREDITS: 120
HEMIS CREDITS: 1.000

MINIMUM CREDITS REQUIRED: 120
NQF LEVEL: 5

1ST YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 1	SEMESTER 2			
LCS5001	LCS5001	Academic Literacy and Communication Studies	12	6
PPE5011		Applied Physics of Energy Conversion I	12	6
DLC5011		Basic Digital Literacy	6	3
EEN5011		Electrical Engineering I	12	6
WIS5011		Mathematics IA	6	3
LES5011		Solar Energy Systems I	12	6
	EIP5012	Electrical Installation and Practice	12	6
	HPP5012	Health and Safety: Principles and Practice	6	3
	WIS5012	Mathematics IB	6	3
	PGS5012	Power Generation and Storage	12	6
	LES5022	Solar Energy Systems II	12	6
	LWG5012	Small-wind Generation	12	6
Total:			120	60

DIPLOMA IN COMPUTER NETWORKING

PROGRAMME CODE: DP_CMN (DURATION: 3 YEARS)

SAQA CREDITS: 387
HEMIS CREDITS: 3.000

MINIMUM CREDITS REQUIRED: 387
NQF LEVEL: 6

1ST YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 1	SEMESTER 2			
LCS5011	LCS5012	Academic Literacy and Communication Studies	12	6
ITE115C	ITE125C	Information Technology Essentials IA & IB	30	15
ITM115C	ITM125C	Information Technology Mathematics IA & IB	30	15
	PIM5012	Personal Information Management	0	0
PSA115C		Problem-solving and Algorithms	15	7.5
RSK11AB		Reading Skills	0	0
SPG115C		System Software IA	15	7.5
	SPG125C	System Software IB	15	7.5
SSD115C	SSD125C	System Software Development I	30	15
Total:			147	73.5

2ND YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 1	SEMESTER 2			
CMN216C		Communication Networks IIA	15	7.5
DBS216C		Databases II	15	7.5
SSD216C	SSD226C	System Software Development II	30	15
SPG216C		System Software IIA	30	15
	CMN226C	Communication Networks IIB	15	7.5
	SPG226C	System Software IIB	15	7.5
	SSE226C	System Software Engineering II	15	7.5
Total:			120	60

3RD YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 1	SEMESTER 2			
CNR316C		Communication Networks Routing III	15	7.5
CNS316C		Communication Networks Switching III	15	7.5
SSD316C		System Software Development III	15	7.5
SSE316C		System Software Engineering III	15	7.5
	CMN327W	Work-integrated Learning in Computer Networking	60	30
Total:			120	60

DIPLOMA IN INFORMATION TECHNOLOGY

PROGRAMME CODE: DP_ITC (DURATION: 3 YEARS)

SAQA CREDITS: 402
HEMIS CREDITS: 3.000

MINIMUM CREDITS REQUIRED: 402
NQF LEVEL: 6

1ST YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 1	SEMESTER 2			
LCS5011	LCS5012	Academic Literacy and Communication Studies	12	6
ITE115C	ITE125C	Information Technology Essentials IA & IB	30	15
ITM115C	ITM125C	Information Technology Mathematics IA & IB	30	15
PSA115C		Problem-solving and Algorithms	15	15
RSK11AB		Reading Skills	0	
SOD115C	SOD125C	Software Development IA & IB	30	15
	INP125C	Internet Programming I	15	7.5
Total:			132	66

2ND YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 1	SEMESTER 2			
DBS216C		Databases II	15	7.5
GID216C		Graphic Design II	15	7.5
SOD216C		Software Development IIA	15	7.5
TPG216C		Technical Programming IIA	15	7.5
WEB215C		Web Content Management II	15	7.5
	GUD226C	Graphical User Interface Design II	15	7.5
	INT226C	Internet Technologies II	15	7.5
	SOD226C	Software Development IIB	15	7.5
	SOE226C	Software Engineering II	15	7.5
	TPG226C	Technical Programming IIB	15	7.5
Total:			150	75

3RD YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 1	SEMESTER 2			
CMN316C		Communication Networks II	15	7.5
ITS316C		Information Technology and Society I	10	5
SOD316C		Software Development III	15	7.5
SOE316C		Software Engineering III	15	7.5
TPG316C		Technical Programming III	15	7.5
	ITC327W	Work-integrated Learning in Information Technology	50	25
Total:			120	60

ADVANCED DIPLOMA OFFERINGS

ADVANCED DIPLOMA IN LOGISTICS AND TRANSPORTATION MANAGEMENT

PROGRAMME CODE: ADLME (DURATION: 1 YEAR)

SAQA CREDITS: 132
HEMIS CREDITS: 1.000

MINIMUM CREDITS REQUIRED: 160
NQF LEVEL: 7

1ST YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 1	SEMESTER 2			
BLM0011		Business Logistics and Management I	14	7
IRP0011		Introduction to Research & Research Project	12	6
PJM0011		Project Management	12	6
TPP0011		Transportation Planning	18	9
TFM0011		Traffic Planning and Management#	12	6
QTO0011		Quantitative Techniques and Optimisation#	12	6
	BLM0012	Business Logistics and Management II	14	7
	TSE0012	Transportation Economics	12	6
	IVM0012	Inventory Management	12	6
	FRM0012	Freight Planning and Management	18	9
	THE0012	Transportation and Highway Engineering#	12	6
	URP0012	Urban and Regional Planning#	12	6
Total:			160	80

ADVANCE DIPLOMA IN COMPUTER NETWORKING

PROGRAMME CODE: AD_CMN (DURATION: 1 YEAR)

SAQA CREDITS: 138
HEMIS CREDITS: 1.000

MINIMUM CREDITS REQUIRED: 138
NQF LEVEL: 7

1ST YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 1	SEMESTER 2			
CSA417E		Computer Servers' Administration	18	9
DBS417E		Database Systems	18	9
CSY417E		Information Security	18	9
OPS417E		Operating Systems	18	9
	IFD427C	Infrastructure Design	18	9
	NPJ427C	Research methodology/Network Project	30	15
	CMN427C	Computer Networks	18	9
Total:			138	69

BACHELOR OFFERINGS

BACHELOR OF ENGINEERING TECHNOLOGY IN CIVIL ENGINEERING

PROGRAMME CODE: B_CVLE (DURATION: 3 YEARS)

SAQA CREDITS: 420
HEMIS CREDITS: 3.000

MINIMUM CREDITS REQUIRED: 420
NQF LEVEL: 7

1ST YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 1	SEMESTER 2			
LCS5011		Academic Literacy and Communication Studies	14	7
BDL11A		Basic Digital Literacy	14	7
CED11A		Engineering Drawings I	14	7
CMA11A		Engineering Mathematics I	14	7
CPH11A		Physics	14	7
	CCE12A	Construction Engineering I	14	7
	CED12A	Engineering Drawings II	14	7
	CMA12A	Engineering Mathematics II	14	7
	CEM12A	Engineering Mechanics I	14	7
	CGM12A	Geomatics I	14	7
Total:			140	70

2ND YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 1	SEMESTER 2			
CCE21A		Construction Engineering II	14	7
CMA21A		Engineering Mathematics III	14	7
CGM21A		Geomatics II	14	7
CSA21A		Structural Analysis I	14	7
CUD21A		Urban Planning and Design	14	7
	CEH22A	Engineering Hydrology	14	7
	CPR22A	Engineering Project Management	14	7
	CGE22A	Geotechnical Engineering I	14	7
	CSA22A	Structural Analysis II	14	7
	CPT22A	Transportation Planning and Traffic Engineering	14	7
Total:			140	70

3RD YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 1	SEMESTER 2			
CDS31A		Design of Structures I	14	7
CEH31A		Engineering Hydraulics	14	7
CGE31A		Geotechnical Engineering II	14	7
CPJ31A		Project (year module)	14	7
CRT31A		Road and Transportation Engineering	14	7
	CDS32A	Design of Structures II	14	7
	CPJ32A	Project (year module)	14	7
	CRD32A	Road Design	14	7
	CSS32A	Water Supply and Sanitation Engineering	14	7
	CWS32A	Water Resources Systems Analysis	14	7
Total:			140	70

BACHELOR OF ENGINEERING TECHNOLOGY IN MECHANICAL ENGINEERING

PROGRAMME CODE: B_MEC (DURATION: 3 YEARS)

SAQA CREDITS: 420
HEMIS CREDITS: 3.000

MINIMUM CREDITS REQUIRED: 420
NQF LEVEL: 7

1ST YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 1	SEMESTER 2			
LCS5011		Academic Literacy and Communication Studies	14	7
BDL11A		Basic Digital Literacy	14	7
MEM11A		Engineering Mathematics I	14	7
MEP11A		Engineering Physics I	14	7
MWP11A		Manufacturing and Workshop Practice I	14	7
	MEC12A	Engineering CAD Drawing I	14	7
	MMA12A	Engineering Materials I	14	7
	MEM12A	Engineering Mathematics II	14	7
	MAM12A	Machines Mechanics I	14	7
	MTF12A	Thermofluids I	14	7
Total:			140	70

2ND YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 3	SEMESTER 4			
MDE21A		Engineering Design II	14	7
MEM21A		Engineering Mathematics III	14	7
MST21A		Engineering Strength of Materials II	14	7
MTF21A		Thermofluids II	14	7
MAM21A		Machine Mechanics II	14	7
	MET22A	*Electrical Technology II	14	7
	MDE22A	Engineering Design III	14	7
	MEN22A	Energy Technology III	14	7
	MMF22A	*Engineering Manufacturing II	14	7
	MPR22A	Engineering Project Management	14	7
	MAM22A	Machine Mechanics III	14	7
Total:			140	70

3RD YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 5	SEMESTER 6			
January	July			
MET31A		*Electrical Technology III	14	7
MDP31A		Engineering Design Project	14	7
MMF31A		*Engineering Manufacturing III	14	7
MST31A		Engineering Strength of Materials III	14	7
MFS31A		Fluid Science III	14	7
MTS31A		Thermal Science III	14	7
	MCS32A	Control Systems III	14	7
	MDP32A	Engineering Design Project	14	7
	MHM32A	Hydrodynamic Machines III	14	7
	MRF32A	Refrigeration III	14	7
	MSA32A	Structural Analysis III	14	7
Total:			140	70

BACHELORS IN ENGINEERING TECHNOLOGY IN ELECTRICAL ENGINEERING

PROGRAMME CODE: _____ (DURATION: 3 YEARS)

SAQA CREDITS: 420
HEMIS CREDITS: 3.000

MINIMUM CREDITS REQUIRED: 420
NQF LEVEL: 7

1ST YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 1	SEMESTER 2			
January	July			
ALP115C		Academic Literacy and Communication Studies I	14	7
BDL11A		Digital Literacy I	14	7
EMA115C		Engineering Mathematics I	14	7
EPH115C		Engineering Physics I	14	7
EDE115C		Digital Electronics I	14	7
	EPG125C	Engineering Programming I	14	7
	EET125C	Electrical Technology II	14	7
	EMA125C	Engineering Mathematics II	14	7
	EEL125C	Electronics II	14	7
	EDT125C	Digital Technology II	14	7
Total:			140	70

2ND YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 1	SEMESTER 2			
January	July			
EPG216C		Engineering Programming II	14	7
EET216C		Electrical Technology II	14	7
EMA217C		Engineering Mathematics III	14	7
EEL216C		Electronics III	14	7
EDT216C		Digital Technology III	14	7
	*ENW316E	Network II	14	7
	EMT226C	Electrical Machines Technology II	14	7
	EMA226C	Mathematical Applications III	14	7
	ECT226C	Communication Technology II	14	7
	ETM226C	Technology Management III	14	7
Total:			140	70

3RD YEAR		INSTRUCTIONAL OFFERINGS	SAQA CREDITS	ECTS CREDITS
SEMESTER 1	SEMESTER 2			
January	July			
EPE317C		Power Electronics III	14	7
ENT317C		Energy Technologies III	14	7
EPR307C		Project III	14	7
*EEP317E		Electrical Protection III	14	7
*EMT317E		Electrical Machines Technology III	14	7
*ENW327E		Networks III	14	7
*ECT317E		Communications Technology III	14	7
*EPG317E		Engineering Programming III	14	7
	EPC327C	Process Control III	14	7
	EEM327C	Energy Management III	14	7
	EPC327C	Project III	14	7
	*ENW327E	Networks III	14	7
	*EPS327E	Power Systems III	14	7
	*ECT317E	Electronic Communication Systems III	14	7
Total:			140	70

INTERNATIONAL STUDENT ADVICE



Cecilia Sejake: International Students Advisor

IF YOU ARE AN INTERNATIONAL STUDENT WHO WISHES TO STUDY IN SOUTH AFRICA, YOU MUST BE IN POSSESSION THE FOLLOWING:

1. PASSPORT

International students are always required to be in possession of a valid passport. The passport must be valid for 30 days after expiry of the intended visit.

2. STUDY VISA

International students are expected to have a valid study visa in order to study in South Africa. A study visa can be obtained from the South African Embassy, High Commission, or Consulate General in your home country. A study visa should be valid for the period of your studies in South

Africa. Please visit <http://www.vfsglobal.com/dha/southafrica/> for more information. **IMPORTANT:** You will not be able to process your first visa issue within the borders of South Africa. It may take up to three months to obtain a study visa, and, therefore, students are advised to process a study visa as soon as possible. No international student will be registered as a student at the university without a valid study visa issued specifically for CUT.

3. MEDICAL AID

In terms of the Immigration Amendment Act (Act No. 19 of 2004), any prospective international student planning to study at a South African higher education institution must provide proof of medical cover with a medical scheme registered in South Africa in terms of the Medical Schemes Act (Act No. 131 of 1998). CUT requires proof of medical aid cover with a South African-based medical aid service provider. All international students are advised to make the necessary financial arrangements for medical aid cover before they enter South Africa. No international student will be registered at CUT unless they provide proof of valid and comprehensive medical aid cover. No hospital plans will be accepted. Medical aid cover must be valid for at least 12 months (i.e. the entire calendar year).

CUT recommends the following medical aid schemes: Momentum Health and Comp Care. Only medical aids recognised in South Africa will be accepted.

4. PRE-ENROLMENT REQUIREMENTS

The preregistration process takes place at the International Office. International students will be provided with a checklist, whereby they will be required to produce the following documentation:

- certified copy of a valid passport;
- certified copy of a valid study visa issued for CUT; and
- certified copy (proof) of medical cover with a medical scheme registered in South Africa in terms of the Medical Schemes Act (Act No. 131 of 1998), valid for the entire calendar year

INTERNATIONALISATION AT HOME



Sekoele Ramajoe: Internationalisation at Home Projects Coordinator

Internationalisation at Home

Internationalisation at Home (I@H) remains a strategic priority at CUT to ensure better integration of international and intercultural dimensions into the formal and informal curriculum for all CUT students. This comprises activities that help students develop international understanding, intercultural skills, and incorporating local intercultural learning opportunities into curriculum internationalization. The Centre for Global Engagement (CGE), through its I@H Unit, acts as a coordinator of all internationalisation at home related initiatives by giving special attention to the mobile and non-mobile students to enhance their international and intercultural competencies, enhancing global student attributes, and ensuring that the entire CUT community benefits from the growing internationalisation of CUT.

The university's vibrant international community, comprising 32 countries, is represented by the

International Student Association (ISA), a student organisation that merges and connects diverse cultures through social events, support and representation in order to improve international students' experience at CUT and in the Free State. Furthermore, ISA aims to create knowledge and understanding of other countries, their cultures, religions, and values to make students prepared to communicate and collaborate globally in a changing world. ISA strives to create strong, diverse relationships, and strives to achieve cultural appreciation by means of different events and activities throughout the academic year, whilst providing the CUT community with the opportunity to become aware of, and understand, the world's cultures. All international students have an automatic membership to ISA.



Inbound exchange students celebrating Africa Day in Swaziland attire

Building global friendships and Networks



Imagine travelling to a new country, without any friends or family, where people have a different culture than your own, and different customs and practices. All these factors tend to cause countless anxiety. The CUT Buddy Programme is designed to help international students to easily settle into CUT, their new host university, and to adapt to campus life and local communities, as



International students team building games -Tug of War during a welcoming function

well as to ease some of the anxiety they may experience. International students are matched with some local student buddies, to help them with the integration process and adapting to a new environment. These buddies also play a critical role in integration projects, which are executed in collaboration with ISA, and by means of events that take place throughout each semester.



Study Abroad Fair activation day by International Student Association and Inbound exchange students

Buddy Experience!

Neria Gantshe Sehobai - 3rd Year Student: Bsc Hydrology and Water Resources Management

"Being a buddy is one of the best decisions I've ever made, it has been a fun and exciting journey mostly because I get to meet all the different students across the globe of diverse cultures and being a buddy helped me overcome the fear of the unknown because I have developed multicultural competencies."



Mamotumi Aisha Lehloka-3rd Year Student: Bsc Hydrology and Water Resources Management

"Being a student buddy has given me the privilege to learn from international students and their different cultures, how they live also their educational system. I also want to be an exchange student one day and acquire more knowledge"



Lawrens Mkhize – 4th Year Student: Bachelor of Education

“The buddy program to me has been an exploration of the outside world through relationships made and a creation of worldwide academic opportunities. I had opportunity to explore diversity at home through activities of welcoming, orientating and creation of a welcoming environment to the inbound students”



Siphiwe Mkwana: 4th Year student: Electrical Engineering

"I have been an exchange student before which made me realize the significance of having a buddy, Hence I have gladly taken this opportunity of being a buddy to inbound students at CUT to help them integrate with the South African environment. It has helped me to improve my intercultural communication skills and continue to build global friends."



Duduzane Mqaba- CUT Alumni & Former Buddy:

It all started with a dream for me. I always wanted to go abroad and build international relations. The buddy Program was my starting block into the world of mixed cultures and internationalization. I joined the buddy program in 2018 and my aim was to give my buddy the best experience he could ever get representing not only CUT but South Africa. In 2019 I became a buddy to Paul, Lars and Daniel from Aalen University of Applied Sciences, they studied at CUT for 1 semester. In 2020 I got an opportunity to go to Germany and I reconnected with my buddies. Because of the great experience I gave them in South Africa, they felt the need to do the same in their home country. This is a story about dreams that become goals, goals that become a reality. Thank you to the buddy program for connecting people all over the world.



INTERNATIONAL PARTNERSHIPS



Refilwe Moleyane:
International Partnerships Manager

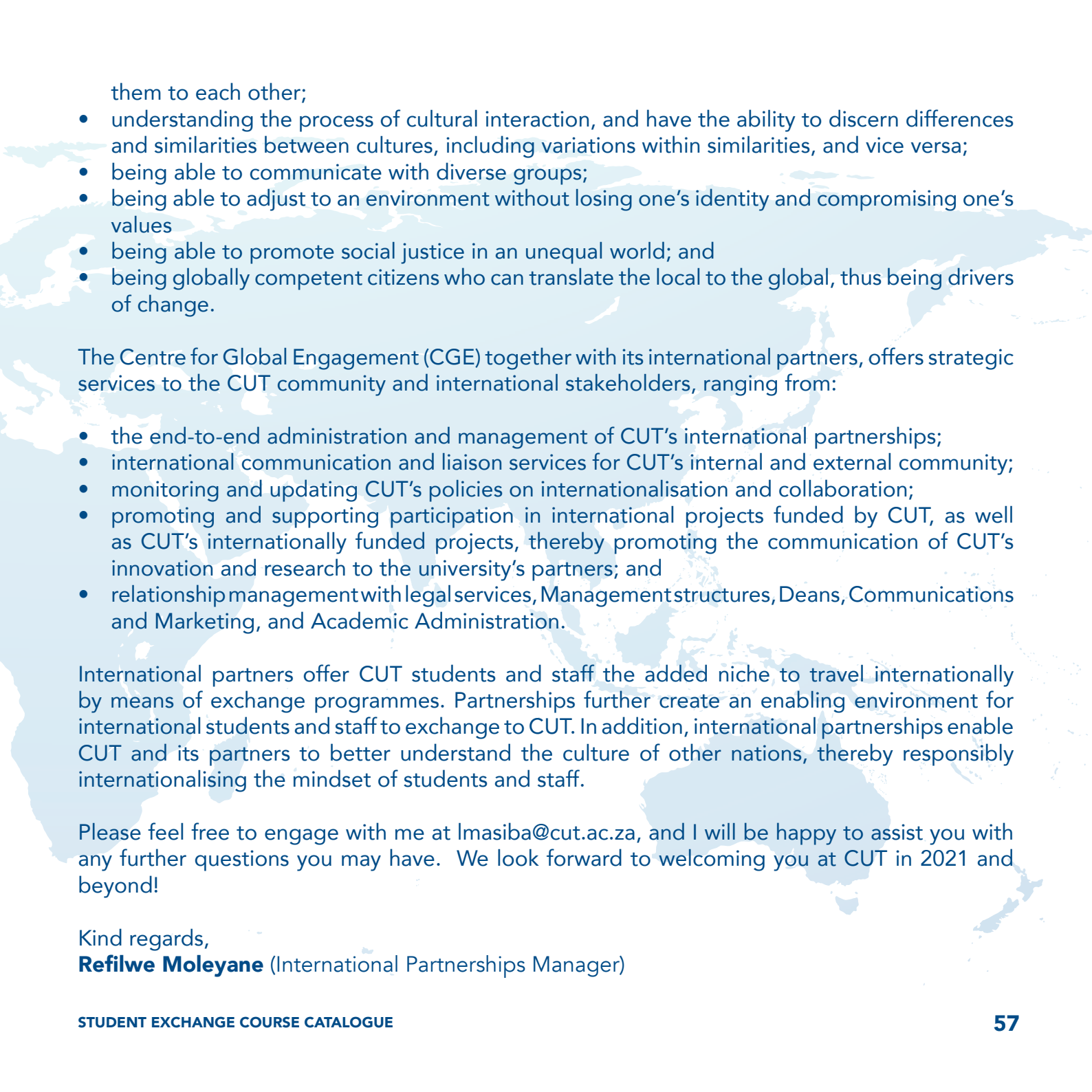


Boipelo Tlale
EU Projects Administrator

Centre for Global Engagements (CGE) take pride itself in managing the process of internationalisation through dynamic and strategic partnerships is a key component of an internationalised university. The university of the future embraces collaborative curriculum delivery and the generation of new knowledge. CGE proudly embraces international collaboration, with its footprint spreading over four continents.

The constant changes and developments in the geopolitical environment prompt universities to rethink international collaboration/partnerships, and adapt to innovative forms of collaboration in virtual and physical spaces. Through its international partnerships, CUT offers the student and staff population the unique ability to operate in, and engage with, the changing environment through the following competencies:

- knowing how to relate new knowledge to what is already known;
- being able to read the signals of an unfamiliar situation, interpret its elements, and connect

- 
- them to each other;
- understanding the process of cultural interaction, and have the ability to discern differences and similarities between cultures, including variations within similarities, and vice versa;
 - being able to communicate with diverse groups;
 - being able to adjust to an environment without losing one's identity and compromising one's values
 - being able to promote social justice in an unequal world; and
 - being globally competent citizens who can translate the local to the global, thus being drivers of change.

The Centre for Global Engagement (CGE) together with its international partners, offers strategic services to the CUT community and international stakeholders, ranging from:

- the end-to-end administration and management of CUT's international partnerships;
- international communication and liaison services for CUT's internal and external community;
- monitoring and updating CUT's policies on internationalisation and collaboration;
- promoting and supporting participation in international projects funded by CUT, as well as CUT's internationally funded projects, thereby promoting the communication of CUT's innovation and research to the university's partners; and
- relationship management with legal services, Management structures, Deans, Communications and Marketing, and Academic Administration.

International partners offer CUT students and staff the added niche to travel internationally by means of exchange programmes. Partnerships further create an enabling environment for international students and staff to exchange to CUT. In addition, international partnerships enable CUT and its partners to better understand the culture of other nations, thereby responsibly internationalising the mindset of students and staff.

Please feel free to engage with me at Imasiba@cut.ac.za, and I will be happy to assist you with any further questions you may have. We look forward to welcoming you at CUT in 2021 and beyond!

Kind regards,
Refilwe Moleyane (International Partnerships Manager)

OUR VARIOUS INTERNATIONAL PARTNERSHIPS



ABOUT CUT LIBRARY

In pursuit of the broader vision of CUT and to accomplish the strategic goals of its mission the Library and Information Services (LIS) will take leadership position to provide the information resources, technological platform, study space and information skills necessary to attain excellence in CUT endeavours.



Vision

An information environment for technological excellence and intellectual growth.

Mission

The mission of Library and Information Services (LIS) is to give the CUT community access to cutting-edge information in support of teaching, learning and research.

In achieving its mission, the LIS has the following strategic goals:

- Teaching and learning: The provision and promotion of access to comprehensive and up-to-date information tailored for CUT programmes in order to maintain high student throughput.
- Information skills: The development of academic information skills for students and staff to foster 'access with success' and evolve a culture of independent and lifelong learning.
- Research: The offering of high-quality information resources and spaces that will enhance and sustain the research capacity of CUT at all levels.
- Information and communication technology: The adoption of state-of-the-art technologies to ensure that CUT remains at the forefront in terms of managing information, creating gateways to global information and developing an institutional digital repository.
- Partnerships: The forging of partnerships with communities of practice and collaboration with other institutions at local, regional, national and international levels in terms of sharing resources and expertise.
- Quality control and assurance: Compliance with institutional, national and international standards in the management of information resources; maintaining high standards of service, and ensuring cost effectiveness and efficiency in LIS operations.

RESEARCH AND DEVELOPMENT UNIT

s a university of technology, all research programmes are directed at solving problems in business, industry, and government (this is known as the triple-helix approach), and are aimed at contributing to the socio-economic development of the region.

The focus of research programmes is multi-, inter- and trans-disciplinary of nature, with emphasis on sustainable development, answering especially questions such as:

- what kind of research is done?
- what are the objectives?
- and what impact will the research have?



TECHNOLOGY AND INNOVATION

The Technology and Innovation Unit, as an element of the Office for Research and Development of CUT, is primarily involved in the following spheres of influence:

Seed Funding | Innovation and Incubation Support Programmes

- Technology Innovation Agency Seed Fund
- Vision 2020 Innovation and Incubation Programme

Technology Transfer

The unit is responsible for the facilitation of the transfer of new technology, irrespective of the field of application, to business and industry. A good example of this activity is with respect to additive manufacturing technologies – formerly known as rapid prototyping. The Centre for Rapid Prototyping and Manufacturing (CRPM) embarked on a process of developing its infrastructure and skills-base in this area about ten years ago, at a time when this was cutting edge technology with only approximately three such machines in South Africa. During this time CUT's position in this field of specialization improved to such an extent that it became the leader in terms of such technology in South Africa. This created a position where the rapid prototyping principles introduced by CRPM to South Africa, became accepted by the local industry to such an extent that there are approximately 200 such machines in South Africa at the moment, whilst the utilization of such is starting to have a very important impact on the local prototyping and manufacturing economy. Revolutionary technology was accessed by CUT and subsequently introduced and spun out – hence transferred – by this unit to the South African manufacturing community. The same principle holds true for new product development processes under the auspices of the Product Development Technology Station (PDTs).

Innovation

The ideal would be for completed research by CUT researchers to be commercialized in the form of new inventions. Hence, the Technology and Innovation unit is supporting staff and

students with the protection of intellectual property and by providing incubation facilities and commercialization support. This normally takes place by incubation on campus in the institutional incubation facility, but also off-campus through the formation of a so-called virtual incubator. In many cases entrepreneurs are also technically supported through structures such as the Product Development Technology Station.

There are two primary goals in addition to the commercialization of completed research that CUT is striving for in terms of innovation, namely support with the establishment of new enterprises by Small, Medium and Micro Enterprises (SMME's) – both on and off campus – and assistance to corporate entities with the development of new products and processes. Lastly the unit is also taking part, on behalf of CUT, in the support of the Free State Provincial Government's Regional Innovation Centre with the aim of improving the standard of living of the inhabitants of the province.

Incubator

Support is provided to staff, students and new start-up enterprises or SMME's – that might, or might not be making use of the services of CRPM or PDTs - with respect to the formal establishment of viable enterprises, development of products for commercialization and assistance with the identification of funding mechanisms to support such endeavours. Available knowledge with respect to the commercialization and funding of innovation is availed in the interest of the CUT and regional economic development in general. These activities include renting of office space in the Science Park Incubator to new start-up enterprises in an attempt to the launch of new enterprises. These entities are accommodated for a maximum period of three years, bearing in mind that the preferred nature of business activities in the incubator is in the field of high-technology and innovation.

The Centre for Rapid Prototyping and Manufacturing



The Centre for Rapid Prototyping and Manufacturing (CRPM) at Central University of Technology, Free State (CUT) specializes in Additive Manufacturing (AM), better known as 3D printing. The CRPM was established 1997 as a centre for commercial work as well as research using Rapid Prototyping, Rapid Manufacturing, Rapid Tooling and Medical Product Development technologies.





Product Development Technology Station

The Product Development Technology Station (PDTs) in cooperation with the Centre for Rapid Prototyping and Manufacturing (CRPM) provides first-class limited run/hybrid tooling solutions to individuals and SMMEs. Our quality customized tooling inserts are highly suitable when limited part quantities are needed or where changes to the tool will be made due to rapidly changing markets. At PDTs we realize that SMMEs do not always have the capacity to invest in large production moulds immediately. With limited run/hybrid tooling solutions, PDTs can assist you to convert your idea or final design into a physical model, quickly and cost-effectively, without sacrificing quality.





The Bloemfontein FabLab was established in 2006 by the Department of Science & Technology (DST) and implemented by the Council for Scientific and Industrial Research (CSIR). It is a concept that originated as the educational outreach component of Massachusetts Institute of Technology's (MIT) NSF-funded Centre for Bits & Atoms (CBA). A FabLab consists of a suite of off-the-shelf, industrial grade, digital fabrication tools, an electronics workbench, computers, programming tools, and is supported by open source design software.

mdip.

Innovation in Medical Implants

The Board of the Medical Research Council (MRC) approved the establishment and financing of a Medical Device Innovation Platform – represented by four traditional universities and the CUT. It is recognised that technology, and more specifically medical devices, are playing an increasingly important role in healthcare globally. The healthcare challenges of the African region as a whole, and South Africa in particular, have resulted in a need for increased activity and government support in medical device innovation in South Africa.

RESEARCH, INNOVATION AND ENGAGEMENT

Research Centres, Units and Groups

- Centre for Rapid Prototyping and Manufacturing (CRPM)
- Product Development Technology Station (PDTs)
- Seda Agricultural Mining and Tooling Incubator (SAMTI)
- FABLAB
- Science Park
- Centre for Applied Food Security and –Biotechnology (CAFSaB)
- Unit for Lean Construction and Sustainability (ULCS)
- Unit for Sustainable Water and Environment (USWE)
- Idea Generator
- Centre for Sustainable Smart Cities 4.0

Academic Support

- Work Integrated Learning and Skills Development (WIL)
- Student Academic Development and Support (SADS)
- Curriculum and Academic Staff Development (CASD)
- e-Learning and Educational Technology (eLET)
- Teaching Development and Special Projects
- Writing Centre
- Scholarship of Teaching and Learning (SoTL)

GRADUANDI RESIDENCE



APPLY TO RESIDENCE

Only students who have been accepted academically by the CUT may apply.

Application forms for Residences at CUT must reach the Residence Office by the closing dates indicated on www.cut.ac.za

Residence application forms that are not submitted directly to the office will not be processed. Forms can be submitted via the CUT website or check the form for other submission options.

Students will be placed based on the availability as our residences have limited space.



Boarding Fees

The boarding fees payable by students annually or per semester covers only their accommodation for the duration of the academic quarter.

WELLNESS CENTRE

The Centre is responsible for providing a number of comprehensive services, namely: health and psychological counselling services, academic support, reading development, social work services, chaplaincy services, and the selection of prospective students. Psychological and Social Services can be found on the second floor of the Lapeng Student Centre, while the Medical Centre is situated alongside the Welgemoed residence.

Bloemfontein Campus Manager

Cronje Gert

Tel: +27 (0)51 507 3156

Email: gcronje@cut.ac.za

SPORTS





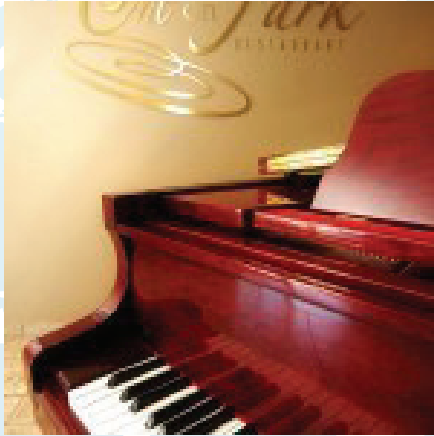
Promising sportsmen and sportswomen have over the years studied at CUT and become national or even international heroes. Os Durant, André Venter and Zola Budd are all CUT Alumni! Sport bursaries are awarded to promising sportsmen and sportswomen according to merit. Such bursaries are only awarded to individuals who participate in league sport in the name of CUT.

Any student wishing to participate in any type of sport not mentioned above can discuss the matter with a Deputy Manager, who will then make the necessary arrangements for that student to join a suitable club in the city.

Manager: Operational Sport.
Ms Shela Lekalakala
Tel: +27 51 507 3543

RESTAURANTS ON CUT CAMPUS

One on Park Restaurant



One on Park Restaurant* is the senior on-site restaurant for senior hospitality management students. This restaurant is the only restaurant in Bloemfontein serving meals exclusively on silver serving ware and cutlery. It was also nominated as one of the best restaurants in the Free State by Style and Eat Out magazines. The cuisine at One on Park is of an exceptional standard. Students working in the restaurant must assist not only with the preparation of the food but also with the management of the restaurant. The intimate restaurant comfortably seats forty people.

Business hours

Open during Academic year (see calendar for details) on the following days: One on Park business hours has changed to:

Wednesday 08:00 – 09:30

Wednesday 12:30 – 14:00

Thursday 18:30 – 22:00

Bookings are essential. *One on Park is licensed

Lettuce Eat



Lettuce Eat* is the training restaurant for first-year students. This gem of an eatery is situated in the heart of the campus and is visited by students and members of the public.

Business hours

Open during Academic year (see calendar for details) on the following days:

Tuesday 12:30 – 14:00

Wednesday 12:30 – 14:00

Thursday 12:30 – 14:00

Bookings are essential. *Lettuce Eat is not licensed.

Make your reservation between 08:30 to 16:00 weekdays.

Contact:

Ms Jaydee Snyman

Tel: +27 51 4034

Email: msnyman@cut.ac.za

EXCHANGE STUDENTS FEEDBACK

Paul Heber

Exchange Student from Aalen University of Applied Science, Germany

"My semester abroad at CUT was definitely the best part of my studies. I had the opportunity to travel the country and get to know the South African way of life. Therefore, I can only recommend to spend a semester in Bloemfontein. It was just amazing"



Lotta Ahag
Exchange Student from Uppsala University,
Sweden

"My exchange studies at CUT gave me, apart from interesting studies, memories I will bring with me for the rest of my life. I met so many new friends and got new perspectives by learning about other's cultures and the South African history. I wish for everyone interested in exchange studies to go to CUT to experience the same things that I did."



Aïcha BEBONG A RIM

**Exchange Student from IAE of Montpellier,
France**

"The exchange at the CUT was great! I did not know what to expect, but it could not have been better anywhere else but there. I met amazing people who became real friends, saw beautiful landscapes and had great experiences. I would definitely rank this exchange as one of the best experience I ever had"



Maike van Dijk

Exchange Student from Hanze University of Applied Sciences

I'm really glad that I did my exchange program at the CUT in Bloemfontein. I met a lot new people and I learned a lot about different cultures and the differences between the Netherlands and South-Africa. If I had the chance, I would do ...



Simón Juárez

**Ulm University of Applied Sciences, Germany
and Emil Schumacher- Harz University of Applied
Sciences, Germany**

"The South African study system contains more academic assignments and other tasks to complete in the programme compared to the German system. Due to Covid-19 the amount of assignments increased but also in our personal life we faced changes, restrictions and new challenges. The hospitality, music and friendly people in Bloemfontein is what will miss"



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Central University of
Technolog

INTERNATIONAL OFFICE

ACHIEVE BEYOND

STUDENT

X-CHANGE

COURSE CATALOGUE



www.cut.ac.za

INTERNATIONAL OFFICE

STUDENT EXCHANGE COURSE CATALOGUE



Central University of
Technology, Free State

INTERNATIONAL OFFICE

Private Bag X20539, Bloemfontein, South Africa, 9300

Tel: +27 051 507 3410

E-mail: inboundstudentmobility@cut.ac.za



www.cut.ac.za