

Mangosuthu University of Technology

Graduate Survey Report 2019

VISION

The vision of Mangosuthu University of Technology (MUT) is to be a pre-eminent higher education institution of technology that fosters socio-economic advancement through the scholarships of teaching and learning, applied research, technology development and transfer and community engagement.

MISSION

Our mission is to provide advanced, technology-based programmes and services that are careerand business-oriented in the broad fields of engineering, natural and Management Sciences for the uplift of talented but mainly disadvantaged individuals. By so doing, the University shows its commitment to social redress. It contributes to creating an equitable and prosperous Southern Africa in which individuals have the opportunity to achieve their full potential

OUR CORE PURPOSE

To contribute to the advancement of technology-based education and training that will strengthen the skills and competitiveness of South Africa in the 21st Century.

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ABBREVIATIONS

BTech	Baccalaureus Technologiae
ECP	Extended Curriculum Programme
ICT	Information and Communication Technology
MARCOMMS	Marketing and Communications Department
MUT	Mangosuthu University of Technology
QMD	Quality Management Directorate
WIL	Work-Integrated Learning

HISTORICAL BACKGROUND AND CONTEXT

Dr Mangosuthu Buthelezi together with the Chairperson of Anglo American and De Beers Consolidated Mines, conceptualized the idea of establishing a tertiary educational institution specialising in technical subjects in 1974. In support of this, the Southern Africa Labour and Development Research Unit (SALDRU) of the University of Cape Town conducted an investigation into the need for the training and employment of technicians in South Africa. The investigation revealed the need for more technicians in industry. Based on this, the Anglo American and De Beers Groups Chairperson's Fund provided the initial funds to build the Technikon. The funding was supplemented by companies such as Mobil Oil, AECI, the S.A. Sugar Millers' Association, the Rembrandt and Distillers Corporation, LTA Limited, Sasol and among others. This enabled the Technikon to establish Schools for Chemical Engineering, Mechanical Engineering, Electrical Engineering, Civil Engineering and Building, and Business and Secretarial Studies. The construction of the Technikon in Umlazi culminated in 1979 when it opened its doors for teaching and learning. The Technikon moved into its main buildings in its current location upon completion in September 1981.

In November 2007, the Mangosuthu Technikon was renamed the Mangosuthu University of Technology in accordance with the National Higher Education legislation.

1. Overview

The Quality Management Directorate (QMD) conducts a graduate survey annually to solicit graduates' views on a number of issues related to their overall experiences and the quality of provision at Mangosuthu University of Technology (MUT) during their entire period of study. These graduate surveys are conducted as part of the broader aim of improving the students' experiences and the quality of provision in the University's three Faculties: Engineering, Natural Sciences and Management Sciences. The Graduate Survey reported on here was conducted from 09 April to 13 April 2019. The survey also seeks to establish the employability of graduates and the fields they are employed in.

1.1 Objectives of the Survey

The initiative to survey graduates' opinions is informed by the understanding that students' views and experiences are important and should be taken into consideration in the planning and operations of the University with a view to effect improvements and enhance the institution 's provision. Using the responses in this graduate survey report, key areas can be targeted in order to improve the teaching and learning processes in the University.

The objectives of the graduate survey therefore are:

- To establish graduates' experiences regarding the facilities in the university
- To solicit feedback regarding graduates' teaching and learning experiences;
- To establish how graduates, rate the university as a teaching and learning institution;
- To establish graduates' employability by industry and their preparedness for the world of work;
- To establish the number of students who are undertaking further studies after completing their first qualification;
- To gain the graduates' opinions regarding the education and training that the University provides; and
- To provide feedback on the survey results to the University community for reflection and action.

1.2 Methodology

The graduate survey used the mixed approach to solicit information from the graduates. Both the quantitative and qualitative questions were used. The rationale is to obtain as much information as possible in order to understand the views of the graduates regarding the provision of the University. Questionnaires were handed out to graduates by personnel from the Quality Management Directorate (QMD) a week before the graduation ceremony and on the morning of each graduation ceremony. The 2019 graduation ceremony took place from the 09 April 2019 to 13 April 2019. Graduates who received the questionnaires were informed that their participation was voluntary and were however requested to participate in the survey.

The questionnaire was divided into three sections:

- biographical details and background information (quantitative responses);
- study experiences (quantitative responses); and
- areas for improvement (qualitative responses).

1.3 Data Analysis

A two pronged approach was used in the analysis of the data. The analysis was done at both departmental and faculty level. The quantitative responses were summarised and reported according to the number of respondents who selected a particular answer. The qualitative responses were grouped into six themes, namely: Physical Resources, Human Resources/Delivery, Curriculum / Teaching and Learning, Campus Activities, WIL and Safety. The Evasys system was used to do the data analysis.

FACULTY OF	FACULTY OF	FACULTY OF NATURAL		
MANAGEMENT SCIENCES	ENGINEERING	SCIENCES		
Departments	Departments	Departments		
1. Accounting and Law	1. Chemical Engineering	1. Agriculture		
2. Human Resource	2. Civil Engineering and	2. Biomedical Sciences		
Management	Survey	3. Chemistry		
3. Marketing	3. Construction Management	4. Environmental Health		
4. Office Technology	and Quantity Surveying	5. Information and		
5. Public Administration and	4. Mechanical Engineering	Communication		
Economics	5. Electrical Engineering	Technology		
		6. Nature Conservation		
		7. Community Extension		

Table 1: Faculties and departments offering academic programmes

1.4 Report Structure

The report is structured into two parts. The first part of the report presents the faculty level analysis beginning with the biographical data, then study experience of graduates, followed by their employment status. The study experiences focus on aspects/variables such as acquisition of knowledge and skills, standard of work, feedback, resources, readiness for the world of work motivation to study further, and student activities on campus among others.

The second part of the report presents the analysis of the data at departmental level. First the respondents' academic profile, participation rate, year of entry of the graduates into the University and graduates engaged in further studies. This is followed by the current employment profile of participants and the study experience of the participants, which looks at aspects/variables such as acquisition of knowledge and skills, standard of work, feedback, resources, readiness for the report culminates in the qualitative section listing graduates' opinions and suggestions **(unedited)** for the improvement of the student experience at MUT and the conclusion to the report.

2. Profile of Respondents

2.1 Academic Profile of Graduates

The total number of graduates in 2019 was 2617. This means that there were 256 more graduates than the 2361 in 2018. This indicates an increase of 10% in the number of graduates. Of the 2617 graduates in 2019, 1936 participated in the survey, indicating a participation rate of 74%. This shows a decrease of 5% compared to the 79% participation rate in 2018. This could be attributed to the high number of parents who were observed fetching the graduation documents for their children.

The breakdown of the overall number of graduates in 2019 is as follows: 349 students accessed the diploma programmes through bridging programme (Pre-tech); 207 students accessed the programmes studied via the Foundation (ECP) programme and 2031 registered through mainstream programmes. The majority of graduates, 2307 obtained their National Diploma qualification. One hundred and forty-four (144) graduates obtained their Bachelor of Technology (BTech) qualification; 127 graduates achieved Advanced Diploma qualification; 33 graduates achieved Postgraduate Diploma qualification and 6 obtained Master's qualification (refer to Figure 1 below).



Figure 1: Qualification types (overall)

2.2 Overall participation rate



Figure 2 below depicts graduation numbers and participation rates in all the three faculties.

Figure 2: Graduates and respondents per faculty

2.3 Comparative analysis for 2018/2019

Comparatively the largest participation rate in the survey was in the Faculty of Management Sciences, 79%, followed by the Engineering faculty, 70%, and lastly the faculty of Natural Sciences, 69%.

Table 2:	Graduates,	respondents	and par	ticipation	rate per	faculty
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Faculty Number		of	Number	of	Participation rate %	
	Graduates		Responder	nts		
	2018 2019		2018	2019	2018	2019
Engineering	785	858	608	602	77.5%	70%
Management	1099	1241	885	976	80.5%	79%
Sciences						
Natural	477	518	372	358	78%	69%
Sciences						
Total	2361	2617	1865	1936	79%	73%

3. An analysis of the survey per faculty- Faculty of Engineering

3.1 Participation rate in the Faculty of Engineering per department

In the Faculty of Engineering, 602 graduates participated in the survey in 2019 out of the total number of 858 graduates. Figure 3 below is the data illustrating the participation rate per departments in the faculty of Engineering. The majority of the graduates obtained the National Diploma qualification, 97%, and 1,8% obtained the BTech qualification. The majority of the graduates 98.7% were African and only 0.2% were other races.



Figure 3: The participation rate per department (Faculty of Engineering)

The graph above shows that departmentally, in the Faculty of Engineering, the participation rate was very high. In all departments the participation rate, when considering those who participated, is 60% and above.

3.2 Streams into Engineering programmes

Figure 4 below illustrates the access pathways into the Engineering faculty. 60.9% of graduates got into the Engineering faculty through the Pre-Tech route, 21.8% through the mainstream route and 10.6% through the ECP route.



Figure 4: Streams followed into Engineering programmes

3.3 Gender split in the Faculty of Engineering

Of the 602 graduates who participated in the graduate survey in 2019 in the Faculty of Engineering the gender split is 60.4% male, 37.9% female and 0.3% other. The data shows that the Engineering Faculty attracts more males than female students. Figure 5 below illustrates this gender split.



Figure 5: Gender split (Faculty of Engineering)

3.4 Age categories of participants and country of origin – Faculty of Engineering

Of the 602 that participated in the Faculty of Engineering, the majority of the graduates fall within the following age categories: 18-25 (47.1%); 26-35 (47.3% and the rest fall within the 36-50 (3.25 and more than 50 (0.2%). The majority of the 602 participants were South Africans, 96.3%.; 1% came from Swaziland 0.3% came from Angola.

Figure 6: Age of respondents in Faculty of Engineering

Figure 7: Year of entry of respondents in Engineering

The National Diploma offered in the faculty is a three-year qualification. The data above shows that students who entered the university in 2014, 2015 and 2016, 52%, and only graduated in 2018 took more than three years to complete the three-year diploma.

3.5 Province of origin

The 602 graduates who participated in the Graduate Survey in the Faculty of Engineering, the majority 87% came from the province of KZN, followed by 5.2% from Eastern Cape.

The data above indicates that the University is attracting mostly students from the province of KwaZulu-Natal. The conclusion is that the university therefore does not provide them with a diverse university experience with regards to existing and studying with people from diverse backgrounds and cultures.

3.6 Current employment status of participants

The 2019 graduate survey also sought to establish the employment status of participants. At the time of conducting the graduate survey, 2019, among the 602 participants in the Faculty of Engineering their then employment status was that 37.1% were employed; 49.8% unemployed; 3% self-employed and 9.7% were studying further. Figure 8 below illustrates the employment status of the participants, in the Faculty of Engineering, at the time of conducting the survey.

Figure 8: Current employment status of respondents in the Engineering Faculty

As this is a Faculty of Engineering the graduates obtained technical Engineering skills, yet, of the 602 graduates who took part in the study, only 37.1% were employed and 49.8% were unemployed. At least 3% were self-employed and 9.7% were studying further. Considering that only 9.7% were studying further. The data then shows that the majority of graduates (49.8%) were not gainfully engaged either working or studying. The level of entrepreneurship among the graduates who took part in the study is also very low at 3%.

3.7 Manner of recruitment for those employed

From the University perspective it is critical to establish how those who were employed got into their employment. For those employed 35.4% were employed in a field related to their field of

study; 5.7% were employed in a field not related to their field of study and 34.3% indicated that the question did not apply to the respondents.

3.8 Manner of recruitment

Graduates who participated in the survey and are employed got into their positions through two main methods- personal contacts, 12% and 16.6% through job advertisements. Work Integrated Learning (WIL) only attributed 4% to securing employment to graduates. The University's strength is its positioning of WIL as an integral part of training students. It is therefore a matter of concern that WIL contributes only 4% to securing employment to graduates. It means that the majority of students who were placed in companies are not eventually absorbed in those companies.

Figure 9: Manner of recruitment of respondents in Engineering Faculty

3.9 Reasons for unemployment

The survey further sought to establish the reasons for being unemployed from those who were unemployed. Figure 10 below illustrates the various reasons offered by participants for their unemployed status at the time of conducting the study. The main reasons cited by unemployed graduates from the University as the data show is – no opportunities for employment (32.3%), followed by - (14,5%) could not find work related to my field and then 6.2% studying further. Of concern here is that while there is a large number of graduates who are unemployed (49,8%), there is a low number of students who are furthering their studies (6.2%).

3.10 Further study

Among those unemployed participants were graduates, who indicated that they were studying further (6. 2%). However, overall 72.9% of the participants in the faculty indicated that they were not studying further. Of those studying, 14.5% were studying full time while 8% were studying part time. Figure 11 below illustrated the percentage split.

Figure 11: Further studies by respondents in Engineering Faculty

3.11 Overall university experience Faculty of Engineering

The overall university experience was solicited from participants in the survey through a number of variables covering a wide range of fields/aspects of university life and study. Thematically, the various aspects covered teaching and learning experience; teaching and learning resources; general facilities on and off campus. Figures 12-15 outline respondents' views about the various aspects of their experience at MUT during their stay in the University as students.

In the Faculty of Engineering the majority of students agreed with the various variables that were in the questionnaire followed by – strongly agreed- meaning that respondents rated the various variable higher on – **agree rating** followed by **Strongly agree** rating of the various variables.

Figure 12: Respondents' study experience (Engineering Faculty)

Figure 13: Respondents' study experience (Engineering Faculty)

Figure 14: Respondents' study experience (Engineering Faculty)

Figure 15: Respondents' study experience (Engineering Faculty)

4. DEPARTMENTAL ANALYSIS FACULTY OF ENGINEERING

This section focuses on departmental analysis of the Graduate Survey in the Faculty of Engineering. The idea is to zoom in on every department to assess/establish how the various departments in the Faculty fared regarding the various aspects of the questionnaire. To establish context, figure (2) on page 8 above depicts the number of graduates per faculty and the number of the graduates that participated in the survey for all three faculties.

4.1 Qualifications obtained in Engineering

Figure 16 below is an analysis of the various qualifications obtained per programme.

Figure 16: Qualifications obtained per programme in Engineering

The data above shows that in the Engineering Faculty the majority of the programmes do not have post diploma programmes for further study for the graduates. Only Chemical Engineering has a BTech programme. This accounts to some extent to the low level of students who are studying further in the Faculty of Engineering -72.9% of the participants were not studying further.

Figure 17: Streams followed per programme in Engineering

The data above shows a scenario where students get into the Engineering programmes mainly through the Pre-Tech route (56%) followed by the Mainstream route (20%) and lastly through the ECP route (9%). This means that the uptake of the ECP route is lower compared to the Pre Tech and the Mainstream routes.

4.2 Year of entry into Engineering programmes

Figure 18 below depicts the year of entry for participants in the survey per department in the faculty of Engineering.

Figure 18: Respondents' year of entry per programme in Engineering

Figure 19: Gender split in the Faculty of Engineering programmes

In section A (faculty analysis) of the survey report it was established that the faculty attracts more male (60.4%) students than female (37.9%) students. This information is reflected in the various departments in the faculty of Engineering. Out of six (6) departments, only one (1), Department of Construction Management and Quantity Surveying has more female (54%) students than male (46%). Figure 19 above illustrates the gender split in the various departments in the Faculty of Engineering.

4.3 Age categories in the Faculty of Engineering Per Department

Figure 20: Age categories of respondents' in the Faculty Engineering programmes

The bulk of the students in the Faculty are in the age category of 18-25 (41%) followed by 26-35 age category (46%) as data in figure (20) above depicts.

4.4 Race, Country and Province of respondents' in Engineering programmes

The University overwhelmingly attracts Black African students in the faculty of Engineering and overwhelming come from South Africa and from the province of KwaZulu-Natal. See Figure 21 below. The faculty attracts overwhelmingly students from the African section of the population (99%) and attracts a small number of students from the Indian community, 0.8%. In Construction Management& Quantity Surveying, Mechanical Engineering and Surveying all students who participated in the survey were African.

Figure 21: Respondents' country of origin per programme in Engineering

Figure 22: Current employment status of respondents in Engineering programmes

In chemical Engineering 53.5% of the participants were employed followed by Civil Engineering with 52.7% and Mechanical Engineering with 41.6%. The programmes that recorded the highest number of unemployed graduates were Construction Management & Quantity Surveying, 63.2%, Electrical Engineering, 61, 7%, Surveying, 57.1% and Mechanical Engineering, 55, 1%.

Overall, in the faculty, of those who participated in the survey, 37% were employed, 49% were unemployed, 3% were self –employed and 6.5% were studying further. Owing to the high number of unemployed graduates, the low number of graduates studying further is concerning. The lack of programmes for further study might be a contributing factor to this. In the faculty of Engineering, 22%, of graduates are meaningfully occupied by way of:

- Study Further 9,9%
- Self-Employed -19%
- Employed 37%

While 50% were not meaningfully occupied by being unemployed.

4.6 Manner of recruitment of respondents in each programme in Engineering

Figure 23: Manner of recruitment of respondents in each programme in Engineering

Figure 24: Job related to field of study of employed respondents in Engineering programmes

Of those employed in Civil Engineering, 52.7% were employed in a field related to what they studied, followed by Chemical Engineering, 48%, Mechanical Engineering, 36%, and Surveying 35.7%. In all programmes the number of respondents employed in a field that is not related to what they studied is very low. In Chemical Engineering, 8.1%, were employed in a field not related to what they studied, 3.1% in Civil Engineering, 2, 3% in Construction Management and Quantity Surveying, 5.6% in Mechanical Engineering and 3.6% in Surveying. At least 36% of graduates are employed in fields related to their studies while 5.5% were not.

4.7 Reasons for unemployment of respondents in Engineering programmes

Figure 25: Reasons for unemployment of respondents in Engineering programmes

The above figure 25 shows that for those unemployed the two major reasons offered for being unemployed are: Could not find work, and lack of job opportunities.

The following are reasons provided for unemployment in the faculty of Engineering:

- Could not find work related to my field 16%
- No opportunities for work 36%
- Studying Further 6%
- Interest Changed 0,4%

Figure 26: Further studies by respondents in Engineering programmes

Departmentally, the highest number of students who are studying further are in Mechanical Engineering ,80.9%, followed by, Civil Engineering,75%, Electrical Engineering, 74.4%, Surveying,71.4%, and Chemical Engineering 60.5%.

4.8 Some Key Findings

The faculty attracts more male students than female.

More graduates were employed in Chemical Engineering.

Even when graduates exit the University with Engineering qualifications unemployment is still very high (50%)

A small number of graduates were meaningfully occupied at the time of conducting the survey (22%).

A small number of graduates are studying further in the faculty (9.9%)

The overwhelming majority of graduates in the faculty were from the province of KwaZulu-Natal.

4.9 Views on improving the quality of education offered at MUT

Table 3: Respondents' views on improving the quality of education offered at MUT (Engineering programmes)

INFRASTRUCTU DELIVERY/HUM CURRICULUM/TE CAMPUS WIL SAFET RE AN RESOURCES ACHING AND ACTIVITIES	rove surity denc and ispor
RE AN RESOURCES ACHING AND ACTIVITIES Image: Comparison of the co	denc and
LEARNING LEARNING • Have • Provide tutors • Research • Transpo • Build a • Imple electricity for each programmes rt must relationsh security	irove urity denc and ispor
• Have electricity• Provide tutors for for each• Research programmes• Transpo rt must• Build relationsh• Impletion seculation	idenc and and
electricity for each programmes rt must relationsh secu	idenc and Ispor
	idenc and ıspor
generator to module and must be in be on ip with at	idenc and ıspor
make sure that offer more place to allow time to companie resid	and Ispor
classes are not qualified more exposure avoid s so that es	spor
disturbed by tutors and to missing students tran	
load shedding offer a lot of development out or will be t	
Improve the other courses. Get being placed • Prov	vide
level of Hire more accreditation late for after secu	urity
technology in educated and to offer classes completin for	
the university experienced degrees in g theory stud	dents
that will help lecturers and Engineering. part that	t stay
student during empower.	
registration Lecturers who distance it is hard cam	npus
MUT can are willing to learning to find in- until	il
improve by put overtime programmes. service late.	:-
creating more to help • Have e- training.	
efficient disadvantage learning • University	
system to help d students. programme must	
students Lecturers who • Pretech assist	
register, apply are always programme students	
for residential available on was helpful with	
and apply for campus for Presentations finding	
study aid. consultation and training	

•	Expand		and with		Curriculum		after	
	Library and		industrial and		needs to be		competin	
	online		academic		updated		g studies	
	learning.		experience.		frequently as in	•	More field	
•	More attention	•	Improve		most cases the		visits for	
	to be paid		customer care		information		students	
	more on		and friendly		provided and	•	Monitor	
	availability of		administrative		studying		the in-	
	books in		staff		promises like		service	
	Library to be				software,		trainees	
	borrowed by	•	Students be		provided are		more	
	students for		listened to		not in line or		regularly	
	the term of		especially if		relevant to the		and also	
	study and the		they have a		industry.		find in-	
	study guides.		problem	•	To have		service	
•	Must have		concerning a		material for		training	
	more		certain course		Practicals		for	
	residence for		or lecturer		which are		students	
	students inside	•	Make sure		normally used	•	P0 - To	
	campus		that every		on		offer	
•	Stop enrolling		lecturer attend		Construction		more in-	
	too many		his/her class		Field for easy		depth	
	students as		on time and		adapt; material		informatio	
	the lecture		help		like Layser		n of how	
	rooms are not		struggling		(CM&QS)		the	
	big enough		students to	•	Practical skills		workplac	
•	Lab equipment		improve in		for "Structures		e will be,	
	to be improved		their studies		and Concrete		prepare	
•	Help students	•	The Head of		3" should be a		students.	
	with software		the university		year.(CM&QS)		Students	
	that is used		must make	•	The university		could get	
	during		sure that each		must ensure		more	
	practicals to		lecturer has		that no exam		informatio	
	install them in	positive		papers leak,		n on the		
---	-----------------	-------------	---	-------------------	---	-----------	--	
	their	attitude		this kills the		work and		
	computers for	towards the		quality		what they		
	practice	students.		produced and		will be		
	purposes			ensure that		actually		
•	Labs and			lecturers are		doing		
	Workshop			competent.	•	Education		
	require some		•	To emphasize		standard		
	improvement			the importance		does not		
	and put more			of constructing		reflect		
	time in			projects		what is		
	practicals so			(prototypes) or		required		
	that students			how important		by		
	will have a			it is to know the		industry.		
	clear idea of			whole function	•	Include		
	what they will			of the stuff like		students		
	be doing in the			software used.		in		
	field.			(Electrical		Debates		
				Engineering)		to better		
			•	Introduce more		equip		
				practicals to		them for		
				match what is		workplac		
				expected on		е		
				the field of		challenge		
				work		S.		
			•	In Melatronics				
				studies,				
				students need				
				more				
				equipment for				
				demonstration				
				s in the labs,				
				especially in				

Robotics III,		
e.g. learn		
about different		
drivers of		
robotics		
including		
software		
(Electrical		
Engineering).		
Mainstream		
students		
should also		
have a		
Drawing		
module like the		
Pre-techs		
since it is of		
utmost		
importance in		
the work place.		
• To offer BTech		
in Mechanical		
Engineering		
because if		
students go to		
DUT, they		
require EMS,		
Maths III and		
Machine		
Design III		
which are		
additional		
subjects at		
		1

MUT
(Mechanical
Engineering)
By having
Communicatio
n Skills until
S4.

5. FACULTY OF NATURAL SCIENCES

5.1 Participation rate in the Faculty of Natural Sciences per Department

There were 358 participants in the faculty of Natural Sciences in the survey. In the Faculty, graduates received qualifications ranging from National Diplomas to Master's degrees. Of the 358 participants, 95.3% were African, 1.4% Indian and 0.35 coloured. A significant number of 58.1% got into the programme they studied through the mainstream pathway and 18.7% through the ECP pathway.

Figure 27, below outlines the faculty of Natural Science participation rate in the survey per department.



Figure 27: Participation rate per department in the Faculty of Natural Science

The highest participation rate was recorded in the Department of Chemistry, 95.9%, followed by ICT, 77, 8%. However, the participation rate in all departments in the Faculty was above 60%.

5.2 Pathways into programmes in the Faculty of Natural Sciences

Figure 28 below depicts the pathways followed into the Natural Science faculty programmes.



Figure 28: Streams followed into Natural Sciences

5.3 Gender split in the Faculty of Natural Sciences

Of the 358 participants in the survey in the faculty, 54.2% were female, 41.3% were male. This faculty attracts more female students than male students.



Figure 29: Gender split (Faculty of Natural Sciences)

5.4 Qualifications obtained in the Faculty of Natural Sciences

The faculty of Natural Sciences offers students opportunities to further their studies up to Master's degree qualifications in the Department of Nature Conservation. Figure 30 below illustrates the qualifications mix and pathways available in the Faculty. The significance of the data in this chart is that 1.7% of graduates in this faculty received Master's degrees.



Figure 30: Qualifications in Faculty of Natural Sciences

5.5 Age categories of respondents in the Faculty of Natural Sciences

About 65.4% of respondents fall within the age category 8-25 years, 25.1% are in the age category of 26-35 years and only 5.6% are in the 36-50 years' age category.



Figure 31: Age of respondents in Faculty of Natural Sciences

5.6 Respondents' year of entry in Natural Sciences Faculty

The majority of graduates received three year diplomas (79. 9%). Those who entered the University in 2014 should have graduated in 2016 assuming they took three years to complete a three-year diploma. In this year, 2018, of the 358 participants, 39.4% graduated in record time. Those who entered in 2016 for a three-year qualification were supposed to graduate in 2018, 13.4% graduated in this year of the 358 graduates who participated in the 2019 survey. About 53% of graduates completed their three-year qualification in record time of three years.



Figure 32 below depicts respondents' year of entry in the faculty of Natural Sciences.

Figure 32: Respondents' year of entry in Natural Sciences Faculty

5.7 Country and Province of origin for graduates in the Faculty of Natural Sciences

Of the 358 participants in the survey in the Faculty of Natural Sciences 96.9% were from the Republic of South Africa (RSA) and only 0.3% were from the Democratic Republic of Congo (DRC). About 86.9% came from the province of KwaZulu-Natal followed by the Eastern Cape with 6.7%.

5.8 Current employment status of participants

In the Faculty of Natural Science, of the 358 participants; 51.4% were unemployed at the time of conducting the graduate survey. Only 31.3% were employed. Figure 33 below outlines the employment status of the participants in the survey in the Faculty of Natural Science. The serious finding in the faculty is that 51, 4% is not meaningfully occupied. The small number of 1.4% of

graduates who are studying further in a situation where a large number of graduates is unemployed is cause for concern.



Figure 33: Current employment status of respondents (Faculty of Natural Sciences)

5.9 Manner of recruitment for those employed (Faculty of Natural Sciences)

The survey also sought to establish how those who are employed got into their jobs. About 13.7% of those employed got into their jobs by responding to job adverts; 8.1% through WIL placement. Figure 34 below outlines the various routes that employed graduates (31.3%) got into their jobs. About 40.2% indicated that this question did not apply to them. This could be those who were studying further, self-employed and those unemployed.



Figure 34: Manner of recruitment of employed respondents (Faculty of Natural Sciences)

5.10 Reasons for unemployment

For those unemployed, a variety of reasons were cited for being unemployed. About 32.1% indicated that they could not find job opportunities and 14.5% indicated that they could not find a job opportunity related to their field of study. About 11.5% were studying further. Figure 35 below outlines the reasons cited for being unemployed.



Figure 35: Reasons for unemployment of respondents in Natural Sciences

5.11 Further study

In the Faculty of Natural Science, of the 358 participants, 11.5% were studying further. Figure 36 below illustrates the mode through which they were studying.



Figure 36: Further studies by respondents (Faculty of Natural Sciences)

5.12 Overall university experience – Faculty of Natural Sciences

Figures 37- 40 rated the graduates' experiences and services offered by the University during their study period or stay in the University. A rating scale of Strongly Disagree, Disagree, Agree and Strongly Agree was used. Overall graduates registered that they "Agree" and "Strongly Agree" with the various variables that were presented to them. The other side of the scale that is "Strongly disagree" and "Disagree" registered very low scores.

The following variables registered double digit disapprovals:

- Further programmes 29%
- Library Resources- 27%
- Lecture venues-15%
- Security and safety-11%
- WI-FI Accessibility -49%
- Sufficient Study spaces provided 19%
- Positive experiences at residences 14%
- Transport to and from residences on time 43%
- Clinic Facilities 24%
- Adequate Counselling Facilities 15%
- Adequate Sports Facilities 19%

Issues that are outlined above registered double digit disapproval ratings and have to be addressed as a matter of improving the students' learning experiences in the University.



Figure 37: Respondents' study experience in Natural Sciences



Figure 38: Respondents' study experience in Natural Sciences



Figure 39: Respondents' study experience in Natural Sciences



Figure 40: Respondents' study experience in Natural Sciences

6. FACULTY OF NATURAL SCIENCES – DEPARTMENTAL ANALYSIS

Faculty of Natural Sciences had a total 518 graduates. Of the 518, 358 took part in the exit Graduate Survey. This translated into a 69% participation rate. The lowest participation rate compared to the other two faculties.

6.1 Qualifications obtained in Natural Sciences

The Faculty of Natural Sciences offers qualifications from National Diplomas to Master's degrees. Of the 69% graduates who took part in the exit Graduate Survey in the Faculty, 8.5% obtained Master's degrees in Nature Conservation.



The Figure 41 below shows qualifications obtained in the Faculty of Natural Sciences.

Figure 41: Qualifications obtained in Natural Sciences

6.2 Streams followed in accessing the qualifications in the Faculty

The Department of Agriculture registered the highest number of graduates that accessed their programmes through the ECP route (72. 5%).Overall a small number of graduates accessed the programmes through the ECP route. The Figure 42 below depicts streams followed in accessing programmes in the Faculty of Natural Sciences.



Figure 42: Streams followed per programme in Natural Sciences

6.3 Year of entry in Natural Science Faculty

About 13% of graduates started their studies in 2014 which means they took more than three years to complete a three-year diploma. The Department of Agriculture registered a large number of students who started their studies in 2014 and 2015,64%, followed by Department of Chemistry,43%. For a holistic picture see Figure 43 below.

Year of entry in Natural Sciences												
	Agriculture	Biomedical Sciences	Chemistry	Comm. Ext.	Enviro. Health	ICT	Nature Conservati o					
Other	ner 13.7% 6.7		14.9%	3.3%	0%	11.4%	1.7%					
2018	9.8%	6.7%	17%	3.3%	4.8%	8.6%	35.6%					
2017	2%	35.6%	6.4%	3.3%	0%	0%	8.5%					
2016	11.8%	31.1%	10.6%	66.7%	76.2%	57.1%	33.9%					
2015	41.2%	4.4%	31.9%	20.0%	19.0%	11.4%	6.8%					
2014	21.6%	6.7%	10.6%	3.3%	0%	10.5%	5.1%					

Figure 43: Respondents' year of entry per programme in Natural Sciences

6.4 Gender split in the Faculty of Natural Science per Department

About 85.7% of graduates in the department of Environmental Health who took part in the exit survey were female; 80% in the Department of Community Extension were female; 73.3% of graduates in the Department of Biomedical Sciences were female. Nature Conservation had 59.3% of the graduates in this Department being female. Only the Department of Agriculture with 61% male graduates and ICT with 55% had more male graduates than female. The figure (44) below shows gender split in the Faculty of Natural Sciences.



Figure 44: Gender split per programme in Natural Sciences

6.5 Age categories of graduates per department

The majority of the graduates, 67%, are in the age category of 18 -25 years. About 25% are in the age category 26-35 years and 5% are in the age category of 36 – 50 years. About 90% of graduates were in the age category of 18-25 years in the Department of Community Extension, 81% in Environmental Health, 77% in ICT. Nature Conservation has the highest number of graduates in the age category of 26-35 years at 33%. Figure 45 below shows age categories of graduates in the Faculty of Natural Sciences.



Figure 45: Respondents' age per programme in Natural Sciences

6.6 Race of graduates per department

The Departments of Community Extension and Environmental Health had 100% of graduates who are African. The other departments had a tiny number of other races. Biomedical Sciences had, 8.9%, Indian/Asian graduates and Chemistry had 2%. The figure 46 below depicts race of graduates in the Faculty of Natural Sciences.



Figure 46: Respondents' race groups in Natural Sciences programmes

6.7 Graduates' country of origin per department

About 83% of the graduates from the various departments came from the Republic of South Africa. A significant number, 4.8% came from the Democratic Republic of Congo (DRC). The DRC is the only country apart from South Africa that registered graduates in the faculty. The figure 47 below shows country of origin of graduates in the Faculty of Natural Sciences.

Country													
	South Africa	Swazi land	Lesot ho	Moza mbiqu e	Zimba bwe	DRC	Tanza nia	Angol a	Zambi a	Mala wi	Nami bia	Botsw ana	Othe
Nature Conservatio	94.9%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
■ICT	96.2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Enviro. Health	95.2%	0%	0%	0%	0%	4.8%	0%	0%	0%	0%	0%	0%	0%
Comm. Ext.	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Chemistry	97.9%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Biomedical Sciences	95.6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Agriculture	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Figure 47: Respondents' country of origin in Natural Science Departments

The Department of Nature Conservation provides a spread of graduates from a number of provinces. About 78% in the Department of Nature Conservation came from KZN, 3% from Eastern Cape, 5% from Mpumalanga, 9% from Limpopo and 2% from other places or countries.

Provinces												
		50	50	CD	MC	NC				Othor		
	NZIN	EC	FO	GP	VVC	INC .	IVIPU	INVV	LIVIP	Other		
Nature Conservatio	79.7%	3.4%	0%	0%	0%	0%	5.1%	0%	8.5%	1.7%		
■ ICT	87.6%	6.7%	0%	1%	0%	0%	1%	0%	0%	0%		
Enviro. Health	81.0%	14.3%	5%	0%	0%	0%	0%	0%	0%	0%		
Comm. Ext.	93.3%	7%	0%	0%	0%	0%	0%	0%	0%	0%		
Chemistry	85.1%	10.6%	0%	0%	0%	0%	2.1%	0%	2.1%	0%		
Biomedical Sciences	91.1%	4.4%	0%	0%	0%	0%	2.2%	0%	0%	0%		
Agriculture	90%	6%	0%	0%	0%	0%	0%	0%	0%	0%		



6.8 The employment status of graduates at the time of conducting the exit survey

The Department of Agriculture had the lowest number of graduates who were employed (9.8% and the highest number of graduates who were unemployed (67%). The Environmental Health Department is the second Department with the lowest number of employed graduates (9.5%) and the highest number of unemployed graduates (62%). The Department of Biomedical Sciences had the largest number of employed graduates (68.9%) followed by the Department of Chemistry with 46.8%. The Department of Nature Conservation was the third Department with 42.4% graduates who were employed at the time of conducting the exit survey. For a holistic picture see Figure 49 below.



Figure 49: Current employment status of respondents per programme in Natural Sciences

6.9 Manner of recruitment for those employed

The majority of employed graduates got their jobs through job advertisement, 13%, followed by recruitment through WIL placement,7%, through personal contacts,3% and through recruitment from the University. About 41% indicated that the question was not applicable to them. Figure 50 below outlines the recruitment process through which the employed graduates got their jobs.

	Manner of recruitment										
							Noture				
	Agricultur e	Biomedica I Sciences	Chemistry	Comm. Ext.	Enviro. Health	ICT	Conservat				
Not applicable	51%	20.0%	23.4%	60%	52.4%	48.6%	30.5%				
Job advertisement	0%	31.1%	12.8%	10%	0%	7.6%	30.5%				
Self-employed	2%	0%	2.1%	0%	0%	1%	0.0%				
Employment agency	0%	8.9%	4.3%	0%	0%	0%	0.0%				
Personal contacts	2%	4.4%	8.5%	3.3%	0%	2.9%	0.0%				
Through WIL	6%	8.9%	14.9%	0%	4.8%	12.4%	1.7%				
From the university	0%	8.9%	6.4%	0%	0%	1%	1.7%				

Figure 50: Manner of recruitment of respondents from each programme in Natural Sciences

6.10 Jobs related to field of study

About 28% of those employed in the Faculty of Natural Sciences were employed in fields related to the field they studied and 4.6% were employed in fields that were not related to what they studied. Figure 51 below outlines the job relatedness to field of study in the faculty of Natural Sciences.



Figure 51: Job relatedness to field of study in Natural Sciences programmes

6.11 Reasons for unemployment in the Faculty of Natural Sciences

A high number of unemployed graduates per departments indicated that the reason for their unemployment is, lack of opportunities for work, Agriculture 43%; Environmental Health 43%; Community Extension, 37%; Nature Conservation, 34%. Only 4% of those unemployed in the department of Biomedical Sciences cited, lack of job opportunities, as a reason for their unemployment. A whole picture for reasons of unemployment is depicted in Figure 52 below. Some departments showed a significant number of students who indicated studying further as a reason for their unemployment. Agriculture 16%; Biomedical Sciences, 13%; Chemistry, 2%, Community Extension, 23%, Environmental Health 19% and ICT, 14%.

Reason for unemployment											
	Agricultu re	Biomedi cal Sciences	Chemistr y	Comm. Ext.	Enviro. Health	ICT	Nature Conserv atio				
Studying further	15.7%	13.3%	2.1%	23.3%	19.0%	14.3%	0%				
Not applicable	7.8%	26.7%	14.9%	16.7%	9.5%	19.0%	23.7%				
No opportunities for work	43.1%	4.4%	31.9%	36.7%	42.9%	34.3%	33.9%				
Interest changed	2%	0%	0%	0%	0%	1%	1.7%				
Could not find work related to my field	23.5%	0%	12.8%	10.0%	19%	18.1%	13.6%				

Figure 52: Reasons for unemployment per programme in Natural Sciences

6.12 Further studies by graduates per department in the Faculty of Natural Sciences

Cumulatively, 66% of the graduates who participated in the survey in the faculty were not studying further. For those who were studying, 20% were studying fulltime, 10% were studying part time. Figure 53 below outlines further studies by graduates in the faculty of Natural Sciences.



Figure 53: Further studies by respondents per programme in Natural Sciences

- 6.13 Views on improving the quality of education offered at MUT (Natural Sciences' programmes)
- Table 4: Respondents' views on improving the quality of education offered at MUT(Natural Sciences' programmes)

IN	FRASTRUCTU	DE	ELIVERY/HUMA	CL	JRRICULUM/TEA	WIL	CA	MPUS
RE		N RESOURCES		Cł	HING AND		AC	TIVITIES
				LE	ARNING			
•	Improve on	٠	Hire	•	Offer Advanced	• To offer every	•	Transport
	Safety and		competitive		Diploma in all	student equal		to and from
	Security		lecturers with		faculties.	chances based		residences
	especially for		high education.	•	Give student	on the Work-		must be
	off campus	•	Not happy of		sufficient study	Integrated		improved.
	students.		academic		material.	Learning or		
•	By using emails		records how are	•	The university	finding them		
	for workload		accessed by		must offer more	help in finding		
	and clear		students.		practical work	Work-		
	communication	•	When		than theory work.	Integrated		
			submitting off			Learning so		

•	Build more	report, would	•	Provide a form	they can
	residences.	advise that they		for Agriculture	graduate on
•	Improve Library	give feedback		students to do	time because
	working hours,	to students, so		practicals	lots of them is
	it should work	that in future	•	Student visits to	wasted looking
	24 hours.	they write a		firms and farms	for Work-
•	Improve lecture	perfect report.		to learn more	Integrated
	venues to be in	Communication	•	Advanced	Learning.
	good condition.	have to be more		Diploma should	MUT should
•	Library should	effective		be available	prepare the
	have enough	between	•	Provide more	student for work
	and relevant	lecturer and		necessary tools	environment
	information,	students at all		for practicals	not only for
	e.g. "I am	times for easier		since in	academic
	studying	work being		Agriculture there	purposes but
	Advanced	done and		is a lack of	with the
	Diploma; I do	progress.		practicals	expectations of
	not have Wi-Fi	• The university	•	Have qualified	the industries
	excess there	must hire tutors		lecturers in	and how they
	are not relevant	for Natural		Animal	should behave
	Journal in the	Sciences		Production	Increase more
	library this is an	faculty to help	•	MUT to offer	opportunities
	obstacle in my	student with		students	for graduates to
	studies". Add	their studies		tutorials.	find jobs easily.
	more study	• Lecturers be in	•	Improve quality	Give student
	material in	class on time		of education by	work
	Library that are	and		conducting	experience so
	up to date.	communicate		projects that are	that the student
	Manage noise	with students.		valuable which	will have little
	in the Library.	MUT should		will involve	experience
•	Improve the	make sure that		students in order	when they
	marketing	the staff		for students to be	graduate and
	strategy in	members		able to conduct	will be easy for

general	(lecturers) are	their own	them to be hired
(billboards	more friendly	Research to	by companies.
must be posted	and	further their	The university
along	approachable.	studies.	should offer
freeways) so	• By providing	Provide further	more in-service
that the	adequate study	study	training for
community will	materials,	programmes in	student to get a
have more	expose	Biomed	clear
knowledge	students to new	Improve	understanding
about the	systems of	availability of	of the work
university.	learning that will	staff at all times	environment
• The university	facilitate their	in their offices.	with their
must	studies.	• Lecturers should	faculties
implement	Provide	at least have	I think it can
more	sufficient	BTech	easily improve if
informative	practical	Promoting group	there are
system around,	activities to	studies which will	subjects that
namely,	students to	also promote	are relevant to
Library,	prepare them to	teamwork as the	the working
Computer Labs	future	course	industry
so that	employment	progressing.	because when I
students can	opportunities.	• To offer	was doing the
have access of	• If they can	instruments in	In-Service
information at	make full	the Chemistry	training there
any time they	access to	Lab and study	were things that
require.	academic	material	I had to learn
• Give each	records and	Make every	them of which
student a	provide more	content available	they would
laptop whey	students with	online	have helped me
they enroll so	NSFAS	• They can	the most if I
that they can	• The university	improve by	heard to learn
used a	can try and find	providing more	them in class.
computer	NSFAS for	qualifications for	

especially Advance	d	other courses	I would suggest	
those from Diploma		like Community	that the	
disadvantaged students		Extension we	students should	
areas • With		need to have	be afforded an	
WiFi in every departme	ent of	BTech here in the	opportunity to	
corner of the Environm	nental	campus.	do some	
university. Health	would •	Concerning the	practicals	
• Get suggest	they	Diploma in ICT,	during their	
advancement hire	only	they can provide	studies where	
on the lecturers	with	BTech for IT	they are	
technology relevant		students to study	exposed to the	
standards of experient	ce to	further by	nearest	
the study aids. Environm	nental	offering	Reservoirs	
Conditions of Health ar	nd they	Postgraduate		
classrooms must	extend	courses.		
should be teaching	hours •	There are not		
improved in campu	us and	enough		
Improve lecture the univer-	rsity.	resources or		
venues as • The le	cturers	equipment to do		
some do not must arr	ive on	practical work		
have projectors time on	study	especially in IT		
Clinic facilities venues a	ind put	(Networking) we		
to be adequate more ef	fort in	need equipment		
MUT should teaching		to do practical		
upgrade with students		work to have a		
times, the • Mentors	should	better		
university is a be way	much	understanding on		
bit behind when dedicated	d to	the content.		
it comes to student	whom •	Well-structured		
modern they	are	course well done		
technology. mentorin	g	Nature		
Improve Should	check	Conservation		
laboratories for the le	cturers	department		

	Community	because	le	cturers	and	
	Extension	sometimes	the Pr	rofessors.	This	
	students	only rea	ason co	ourse	is	
	especially why ma		nany ex	cellent.		
	Basic Skills lab.	people o	don't			
•	The university	make it n	night			
	should build	be that lect	urer.			
	more labs	• At Na	ature			
	expetial for IT	Conservatio	on			
	students in	they are do	ng a			
	order for them	great job so	far			
	to have enough					
	time of self-					
	study with					
	tutorials.					

6.14 Some Key findings in the Faculty of Natural Sciences

The faculty attracts more females than males;

The bulk of the students come from the province of KZN and they are Africans;

Unemployment stands at 51%.

7. AN ANALYSIS OF THE SURVEY PER FACULTY - FACULTY OF MANAGEMENT SCIENCES

7.1 Participation rate per department Faculty Management Sciences analysis

A total of 976 graduates participated in the Faculty of Management Sciences. The various departments and the participation rates per departments are outlined in Figure 54 below.



Figure 54: Participation rates per department in the Faculty of Management Sciences

7.2 Qualifications obtained in the Faculty of Management Sciences

There were 1241 students who graduated in this faculty. About 976 graduates participated in the graduate survey. A rate of 84.5% participants in the exit graduate survey in the Faculty obtained the National Diploma qualification. The Faculty however, offers the following qualifications: National Diplomas; BTech; Advanced Diplomas and Postgraduate diplomas. Figure 55 below illustrates the various qualifications offered.

The bulk of the graduates 68.8% got into their programmes through the mainstream route while 6.6% got into their qualifications through the ECP route.



Figure 55: Qualifications types in Management Sciences



Figure 56: Streams into Management Sciences

7.3 Year of entry and duration of study

About 84.4% of the graduates obtained a three-year National Diploma. Graduates who started their studies in 2014 assuming they were in a three-year diploma were supposed to graduate in 2016. In this year 2016, 45.7% of the graduates who participated in the survey graduated. Those who entered the University in 2016 for a three-year qualification were supposed to graduate in 2018. In that year (2018) 23.5% students graduated – of the 976 that participated in the survey. An extrapolation could be made that the majority of students don't complete their three year diplomas in record time. Figure 57 below shows year of entry of graduates in the Faculty of Management Sciences.



Figure 57: Year of entry in Management Sciences

7.4 Gender split in the Faculty of Management Sciences

The Faculty attracts more female students than male students, with 62.7% of the graduates' participants in the survey being female and 35% being male. Figure 58 below shows gender split of graduates in the Faculty of Management Sciences.



Figure 58: Gender split in Management Sciences

7.5 Age categories of participants and country of origin in Faculty of Management Sciences

The majority, 74%, of the participants in the faculty were in the 18-25 age category while 21% were in the 26-35 age category. Figure 59 below illustrates the age categories of the participants. With a tiny percentage of 0.1% being more than 50 years of age. About 98.4% were Africans.



Figure 59: Age of respondents in Management Sciences

7.6 Country and Province of origin

Of the 976 participants in the faculty, 98.6%, were from the Republic of South Africa (RSA). About 91.2% came from the province of KwaZulu-Natal followed by the Eastern Cape with 4.3%.

7.7 Employment status in the Faculty of Management Sciences

Cumulatively, the faculty recorded an unemployment rate of 69% among the participating graduates in the exit graduate survey.12, 7% graduates were employed and 16% were studying further. The rate of unemployment notwithstanding only 2% were self-employed.



Figure 60: Current employment status of respondents in Management Sciences

7.8 Manner of recruitment for employed graduates in the Faculty of Management Sciences

The majority of those employed in the Faculty, got their jobs through job advertisement (7.6%). A tiny percentage of, 1,7% were self-employed.2,65% got their jobs through personal contacts. Figure 61 below outlines the recruitment manner for employed graduates in the Faculty of Management Sciences.



Figure 61: Manner of recruitment of respondents in Management Sciences

7.9 Job related to field of study

Of those graduates employed in the Faculty, 10.6%, were employed in a field related to what they studied while, 5,9%, were employed in a field that was not related to what they studied. 52.8% indicated that the question was not applicable to them. Figure 62 below shows job relatedness to the field of study in the Faculty of Management Sciences.



Figure 62: Job related to field of study in Management Sciences

7.10 Reasons for unemployment

Approximately 19% of unemployed graduates in the faculty indicated that the reason for their unemployment was that they could not find employment related to their field, 41% indicated that there were no opportunities for work, 12% were studying further. Of those studying, 23% were studying fulltime and 9% were studying part time. Figure 63 below shows the reasons for unemployment of graduates in the Faculty of Management Sciences.



Figure 63: Reasons for unemployment (Management Sciences)



Figure 64: Further studies by respondents in Management Sciences

8. FACULTY OF MANAGEMENT SCIENCES DEPARTMENTAL ANALYSIS

8.1 Qualifications obtained per programme in Faculty of Management Sciences

Figure 65 below shows the various qualifications obtained per department in the Faculty of Management Sciences.



Figure 65: Qualifications obtained per programme in Management Sciences

8.2 Streams followed in the Faculty of Management Sciences

Figure 66 shows the pathways that were followed by graduates into the programmes in the Faculty of Management Sciences. There are only two pathways: ECP and Mainstream. The data shows that the majority of students got into the programmes they studied through the mainstream route.



Figure 66: Streams followed per programme in Management Sciences

8.3 Respondents' year of entry per programme in Faculty of Management Sciences

Figure 67 shows that in all the programmes in the faculty, 5% started their studies in 2014, 14% started their studies in 2015, 47% started their studies in 2016. Those who started in 2016 and graduated in 2018 took three years to complete their three year diplomas.



Figure 67: Respondents' year of entry per programme in Management Sciences

8.4 Gender split in Faculty of Management Sciences programmes

The data below in figure 68 shows that the programmes in the Faculty attract more female students than male.



Figure 68: Gender split in Management Sciences programmes

8.5 Age of respondents in Faculty of Management Sciences programmes

Figure 69 below depicts the age distribution of graduates who participated in the survey in all the programmes in the Faculty of Management Sciences. About 74% of the graduates who participated in the survey fell within the 18-25 age category.



Figure 69: Age of respondents in Management Sciences programmes

8.6 Race and country of respondents in Faculty of Management Sciences programmes

The Faculty overwhelmingly attracts Black African students, 98.4%, mainly from South Africa and the province of KwaZulu-Natal (see figure 70 below). About 92% come from the province of KwaZulu-Natal.

600.0% 500.0% 400.0%													
300.0%													
200.0%													
100.0%													
0.0%	Sout h Afric a	Swa zilan d	Les otho	Moz amb ique	Zim bab we	DR C	Tan zani a	Ang ola	Zam bia	Mal awi	Na mibi a	Bots wan a	O e
Public Admin.	99.5	0.0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0
■ OMT	98.5	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0
Marketing	96.5	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0
HRM	98.5	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0
	00 E	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0

Figure 70: Respondents' country of origin per programme in Management Sciences

8.7 Current employment status of respondents in Faculty of Management Sciences

The combined employment rate in all the programmes is 12.62%. The unemployment rate on the other hand is, 70%. The highest employment rate in this faculty is in marketing, 18, 6%. The department with the highest unemployed graduates is Public Administration and Economics, 85.8%. Overall only 2.2% were self-employed. For a complete analysis see figure 71 below.



Figure 71: Current employment status of respondents in Management Sciences

8.8 Manner of recruitment for employed graduates in the Faculty of Management Sciences

For those employed, 8.8% got into their jobs through job advertisements. Figure 72 below shows the various ways in which those who were employed were recruited into their jobs.



Figure 72: Manner of recruitment in Management Sciences programmes
8.9 Job related to field of study for employed graduates – Faculty of Management Sciences

About 11 % of those employed were employed in a field related to their study while 6% were not employed in a field related to what they studied.



Figure 73: Job related to field of study per programme in Management Sciences

8.10 Reasons for unemployment – Faculty of Management Sciences

About 12% of those unemployed were unemployed as they were studying further. 41% of those unemployed indicated that there were unemployed as there were no opportunities for employment and 19% indicated that the reason for their unemployment is because they could not find work related to their field of study.



Figure 74: Reasons for unemployment of respondents in management sciences programmes

8.11 Further Studies

For those studying, 9% were studying part time while 23% were studying full-time. About 64% of the unemployed were not studying further.



Figure 75: Further studies in Management Sciences programmes

8.12 Overall University experience in Faculty of Management Sciences

The graphs below, Figures 65 - 68 indicate that majority of graduates agree with the various variables that they were to rate in the scale. In all the variables graduates rated the variable "agree" was rated above 40% except "accessible WI-FI" which was rated 29%. Accessibility of WI-FI needs to be given high priority.



Figure 76: Respondents' study experience (Faculty of Management Sciences)



Figure 77: Respondents' study experience (Faculty of Management Sciences)



Figure 78: Respondents' study experience (Faculty of Management Sciences)



Figure 79: Respondents' study experience (Faculty of Management Sciences)

8.13 VIEWS ON IMPROVING THE QUALITY OF EDUCATION OFFERED AT MUT

Table 5: Respondents' views on improving the quality of education offered at MUT(Management Sciences' programmes)

FACULTY OF MANAGEMENT SCIENCES									
IN	FRASTRUCTUR	DELIVERY/HUMA	CI	URRICULUM/	CA	AMPUS	WIL		SAFETY
Е		N RESOURCES	TE	EACHING AND	AC	TIVITIES			
			LE	EARNING					
•	Provide Wi-Fi to	• Improve in the	•	The way of	•	Ву	•	Graduate	
	students so they	quality of		conducting		accommo		s should	
	can be able to do	recruiting		lectures can		dating all		be	
	Research for	qualified		be improved		student		provided	
	their studies and	lecturers who		through using		from all		with	
	improve lecture	are passionate		more than		backgroun		internshi	
	halls.	about facilitating		technology,		ds and		ps and	
•	They must	learning.		e.g. e-		genders,		learner	
	improve	Hire more		learning,		to develop		ships by	
	technology, or	experienced		Visual		social		MUT	
	online because	lecturers and try		classes and		activities		corporate	
	of the long	to teach more in		etc.		and		S.	
	queues.	English.	•	By involving		consistentl	•	Provide	
•	They should	They must		everything		у		more	
	extend/build	implement		pertaining the		empower		practicals	
	more venues	strategies that		students'		youth,		and in-	
	that will be able	will focus on the		modules to		skills and		service	
	to accommodate	development of		be more		developm		training	
	all students per	self-confidence		competitive		ent		opportuni	
	class especially	to students,		among other		academic		ties	
	first year	• There must be a		institutions.		ally and		within the	
	students.	minimum	•	By doing		socially.		Manage	
•	Operate the	qualification of a		more of				ment	
	Resource Centre	Masters for all		practical and					

	24 hours as well		lecturers in all		Presentation		Sciences	
	as Clinic just in		fields.		s so that		faculty.	
	case of	•	Lectures must		students can	•	Student	
	emergency to		always be on		be in a quality		face	
	students who		time for classes		standard.		challeng	
	engage		and also report	•	The		es on	
	themselves to		in time if they		university		finding in-	
	cross night self-		cannot make it in		should offer a		service	
	service.		class.		better		training.	
•	Library	•	Tutors should be		curriculum		MUT	
	resources are		limited in		that offers		should	
	outdated they		facilitating for in		Entrepreneur		improve	
	must buy		class not to mark		ial studies		its Co-	
	updated study		or assess		and		Operativ	
	material.		anything.		encourage		e	
•	Transport from	•	MUT is a		students to		Educatio	
	residence to		university of	•	To be		n	
	university must		technology, it		creators		Departm	
	increase so that		should the best		rather than		ent in	
	students must be		and can do		job seekers.		assisting	
	in class on time.		better	•	The		students	
•	MUT should		technological.		university	•	Ву	
	improve quality		Lecturers do not		should		provide	
	of education by		make use of		introduce e-		practical	
	giving sufficient		Blackboard		learning in		activities	
	computers at the	•	Allow the		lecture		for	
	Library for		lecturer to make		rooms.		Accounti	
	students to study		a slot when	•	Advanced		ng	
	also to increase		there is a class		Diploma for		students	
	more practical in		or period the		Public		to gain	
	the study.		lecturer missed.		Finance and		more	
		•	By providing		Accounting		confiden	
			enough study		so we can		ce in the	

•	Smart board	material to		advance our		program	
	must be in all	students.		studies and		me.	
	class or venue.	• By developing		be able to	•	Would	
•	Install air	new ways of		compete with		recomme	
	conditioners at	teaching and		other		nd them	
	lecture halls.	also the person		students from		to offer	
•	Be aware of	who is		other		internshi	
	Financial Aid	responsible for		universities		р	
	corruption in our	maintaining		when we		program	
	NSFAS.	Smartboards		looking for		mes for	
•	Marketing of	must always		employment.		Marketin	
	MUT brand.	check if it is	•	Must improve		g	
•	Funding must be	working frustrate		practical		students	
	available online	the lecturer and		assessment		so that	
	for BTech and	we end up using		like Pastel		they	
	Advanced	Projector		Accounting		won't	
	Diploma for	• I would		and Payroll		suffer for	
	students.	recommend		Accounting.		experien	
•	Providing	extra classes for	•	Study		ce when	
	accommodation	those who are		material be		needed.	
	for new students.	doing part time.		given in time	•	Extend	
•	They can start by	Added more	•	Mentorship		the time	
	reducing strikes	staff workers at		programmes		of Work	
	to ensure study	Step 7 and Step		can be		Integrate	
	time is not	5.		provided to		d	
	wasted.	• It takes long time		drive		Learning,	
•	E-learning to be	to get help.		students to		(in-	
	accessible to all	• As long as it is		be and do		service	
	students.	still controlled		better.		training).	
•	Change	and managed by	•	Make means	•	Ву	
	transportation	Blacks, I see no		of providing		providing	
	issue, it's got an	future in this		facilities like		students	
	adverse effect in	institution hence		to provide		with in-	

	the teaching and		they always fail		with study	service	
	learning.		to provide for		guides and	training	
•	MUT must		students.		also make	(Public	
	encourage	•	MUT is a		use of	Administr	
	teaching and		university of		technology	ation)	
	learning		technology, it		as the		
	development		should the best		institute of		
	centres.		and can do		technology.		
•	Library closes		better	•	MUT must		
	early student		technological.		ensure that		
	can't access		Lecturers do not		students		
	information at		make use of		must be		
	night. There are		Blackboard		educated		
	few computer	•	Allow the		with new		
	labs and some		lecturer to make		editions of		
	students		a slot when		books and		
	graduate with no		there is a class		Communicati		
	experience and		or period the		on Language		
	struggle to find		lecturer missed.		must try to be		
	jobs.	•	By providing		done from		
•	By building more		enough study		first to third		
	residence		material to		students,		
	spaces to help		students.		because that		
	even post	•	By developing		language is a		
	graduate		new ways of		problem to		
	students to		teaching and		students		
	expand on their		also the person		(English).		
	studies and also		who is	•	The		
	by putting more		responsible for		Lecturers		
	funding for		maintaining		should avoid		
	Advanced		Smartboards		lecturing in		
	Diploma		must always		lsiZulu.		
			check if it is				

	students to study	working frustra	e	• They need		
	further.	the lecturer a	d	more		
•	MUT must	we end up usi	g	lecturers		
	improve	Projector		because		
	channels of	• I wou	d	some of the		
	communication,	recommend		progress are		
	so that they	extra classes f	or	lacking with		
	would be able to	those who a	е	lectures. In		
	attend many	doing part time		general,		
	students to come	Added mo	е	Marketing		
	further their	staff workers	at	have two		
	studies.	Step 7 and Ste	р	years of		
•	Have safe and	5.		advance		
	secure			while other		
	environments in	Maintaining		programmes		
	the campus and	balance of	II	have one		
	residences.	races within the	е	year in		
•	If possible add	institution.		advance.		
	Accounting lab,	• By inviti	g	• They should		
	we need more	officials relate	d	also consider		
	excess to	to ea	h	Digital		
	computers since	department a	d	Marketing		
	Accounting now	courses	0	• MUT needs		
	has to do	speak a	d	to improve		
	Software E.g.	advise studer	s	more into		
	Pastel and BAS.	and to ass	st	technology		
•	MUT has to build	them	0	advance,		
	more computer	understand		provide		
	labs for students	about the fiel	s	students with		
	because we as	and what	s	more skills		
	postgraduate	happening in t	е	into Business		
	students	working area.		Entrepreneur		
	experienced			S.		

	some difficulties	•	The workers	•	The		
	concerning		need to improve		university		
	accessing the		their attitude		must have		
	Postgrad Lab		because		Project		
	and ended up not		sometimes you		Management		
	having a venue		leave without		and post		
	to do		getting help or		graduates in		
	assignments.		spend the whole		Office		
	The Lab should		day at the		Management		
	not be available		queues.		and		
	for any bookings.	•	Provide more		Technology		
•	We (OMT) didn't		tutors, mentors,	•	not put too		
	have Tutor, we		the teaching and		much work		
	were supposed		learning in HRM		pressure on		
	to practice on our		must be also		students		
	own. When we		practical, for		because this		
	were writing		example, a		make us as		
	exams or a test		student occupy		students to		
	the computers		a position a		not able to		
	were giving us		company with		focus on our		
	problem, some		HRM.		modules,		
	of the computers	•	By encouraging		because		
	were not		lecturers to		there is so		
	working.		study even		much in short		
			further attend		space of		
			workshops so		time.		
			that they	•	can improve		
			educate		their quality		
			students the		of education		
			best way		by adding		
			possible so MUT		more courses		
			can produce the		like Supply		
					Chain and		

best graduate in	other courses		
South Africa.	(Public		
• Hire well	Administratio		
experienced and	n).		
qualified	• We enjoy		
lecturers.	being		
• The university	students of		
should stick to	MUT so we		
time, if the	want to come		
evening class is	back to do		
at 16:00 it	our Master's		
should make	degree and		
sure that	Honours and		
students end on	etc.		
time which is			
20:00 not less			
than that.			
• MUT needs to			
employ more			
lecturers			
especially for			
Evening			
classes.			
• By having good			
management			
that always			
cater for			
students needs			
and have			
access to Wi-Fi			
without requiring			
to sign in to			
student portal			

and have		
password		
visible.		
Transparency is		
key.		

8.14 Some Key Findings in Faculty of Management Sciences

Unemployment stands at 70%;

About 16% of those who participated in the survey were studying further;

Employment status stands at 13%.

9. SUMMARY

For a holistic appreciation of the graduate survey findings, the university community should engage the report with a view to understand the concerns and inputs that are made by graduates who passed through the University and have a good understanding of the University 's offerings. Engaging the report in a piecemeal manner might not provide the whole picture that is being painted by the report.

10. RECOMMENDATIONS

The generic recommendations below are based on the findings that are contained in the report. The list is not exhaustive but serves as a guide to highlight some of the findings.

Recommendation 1

The low employment rate among graduates across all faculties is a great concern. Given the state of the economy and other factors influencing employment opportunities it becomes imperative that entrepreneurship should be given priority as a way to encourage graduates to create employment for themselves and other people through business ventures.

Recommendation 2

The graduate survey shows that the majority of the participants in the study come from Kwazulu-Natal. It is recommended that the University should work very hard to expand the catchment area for the institution in order to introduce some level of diversity in the student body and enrich the student experience.

Recommendation 3

The participants also indicate that the lack of diverse postgraduate programme is a hindrance for them studying further. The development of new porgrammes should be given a special attention in order to provide an opportunity for graduates to study further particularly in view of the finding that a lot of graduates do not have employment.

Recommendation 4

The improvement of infrastructure on and off campus is one of the findings that come out strongly among the views expressed by the participating graduates in the survey. These range from improvement of the lecture hall infrastructure, WI-FI on and off campus, labs and library.

Recommendation 5

The provision of a bus service shuttling students to and from the various residences off campus.

Recommendation 6

The participants also indicated the need to prepare them (students) through WIL and other interventions for the world of work. This points to the need to prepare students to be competitive through the processes of hiring by introducing interventions that will improve their articulation competencies.

11. CONCLUSION

The significance of the graduate survey is that faculties and departments will find rich data that they could use to improve the situation regarding their services or provision. On the other hand, the University will have at its disposal useful data they it could use to improve various aspects of the University from improvement of infrastructure, safety and the general improvement of the University's provision. This in turn, will improve the experience of students in the University and ultimately lead to students' success. Once the students experience and support systems are improved in the University it is hoped that most graduates will choose the University as the institution of choice when they want to study further.