VUT
FACTBOOK

VOL 3 : August 2011

Vaal University of Technology

Institutional Planning Unit
Resource and Planning Division

CONTENTS

INTRODUCTION

The Institutional Planning Unit is pleased to provide you with the latest Vaal University of Technology Fact Book. The information herein is the audited data of 2010 and the current available data of 2011.

We hope that the Fact Book provides a wide variety of readers with useful and easy to understand information.

Amid the growth in number of electronic management information system and sophistication of management information in South Africa, there still appears to be a need for a quick reference to facts, figures and indicators for users from within and outside the Vaal University of Technology.

The summary below is based on the audited data of the 2010 academic year, unless specified otherwise.

SECTION A

1. INSTITUTIONAL SUMMARY FOR 2010

INDICATOR	VALUE
Headcount[1]	21883
Number of full time staff	966
Graduation rate	14.61 %
Number of accredited Diploma programmes	43
Number of accredited B-Tech programmes	36
Number of approved M-Tech and D-Tech	36
Number of graduates	3199

1. Includes HEMIS: 21 416

2. STUDENT PROFILE

2.1 DISTRIBUTION OF STUDENT HEADCOUNT[1] ACROSS FACULTIES:

Faculty	2009	2010	2011 [2]
APPLIED & COMPUTER SCIENCES	3740	4101	4090
ENGINEERING	6946	7658	7760
FACULTY OF HUMAN SCIENCES	2183	2609	2696
MANAGEMENT SCIENCES	6895	7515	7468
Grand Total	19764	21883	22014

2.2 VUT STUDENT PROFILE PER FACULTY

Below is the percentage distribution of our 2010 student headcount amongst the four faculties.
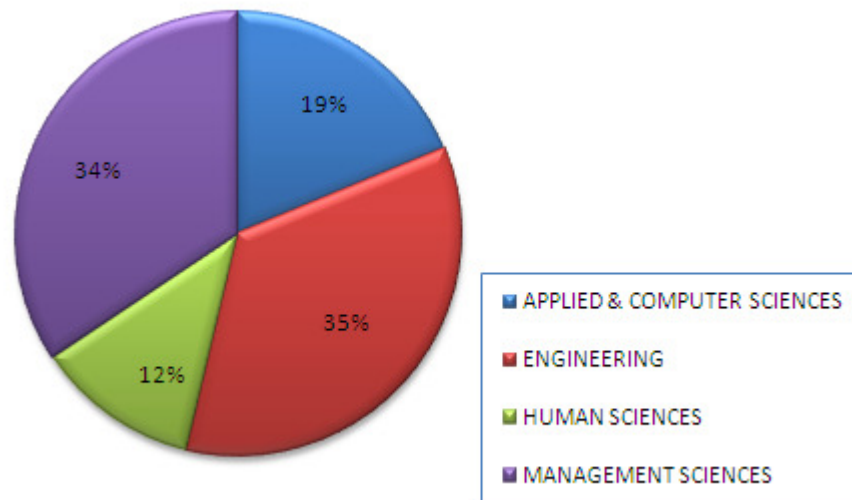
1. **Headcount is calculated based on the following criteria**: *The primary qualification of the student; the qualification has not been cancelled; the student is registered for a subject.*
2. *Unaudited data.*

2.3 DISTRIBUTION OF STUDENT HEADCOUNTS[1] AT DIFFERENT SITES OF DELIVERY:

Campus	2009	2010	2011 [2]
Ekurhuleni	1486	1646	1600
Secunda	1367	1355	1194
Upington	286	351	426
Vanderbijlpark[3]	16625	18531	18794
Grand Total	**19764**	**21883**	**22014**
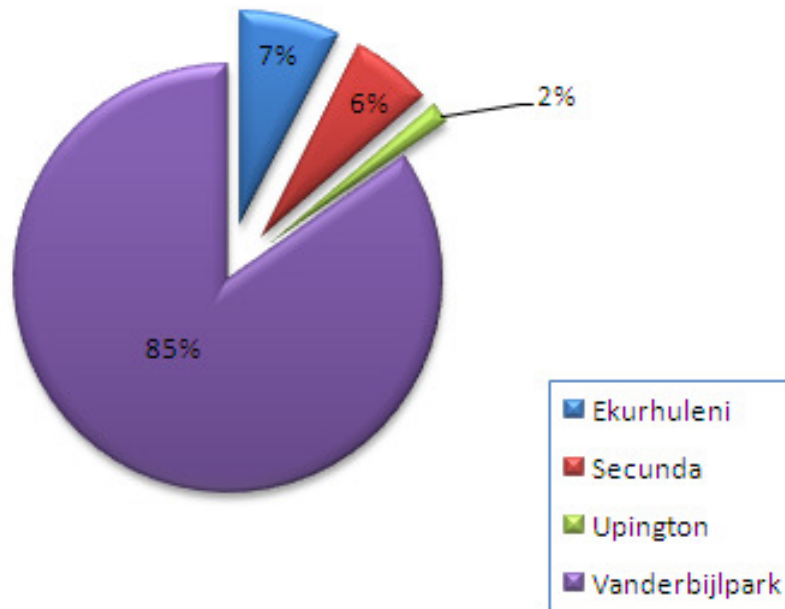
1. **Headcount is calculated based on the following criteria**: *The primary qualification of the student; the qualification has not been cancelled; the student is registered for a subject.*
2. *Unaudited data.*

3. *Edu-City statistics is incorporated in Vanderbijlpark.*

2.4 GENDER DISTRIBUTION OF HEADCOUNT [1] STUDENT ACROSS FACULTIES (2009 – 2011*)

Faculty	2009		2010		2011 [2]	
	Female	Male	Female	Male	Female	Male
APPLIED & COMPUTER SCIENCES	2047	1693	2188	1913	2157	1933
ENGINEERING	1798	5148	2013	5645	2079	5681
FACULTY OF HUMAN SCIENCES	1310	873	1542	1067	1583	1113
MANAGEMENT SCIENCES	4132	2763	4454	3061	4380	3088
Grand Total	**9287**	**10477**	**10197**	**11686**	**10199**	**11815**

GENDER DISTRIBUTION OF STUDENTS ACROSS FACULTIES 2010

	APPLIED & COMPUTER SCIENCES	ENGINEERING	HUMAN SCIENCES	MANAGEMENT SCIENCES	VUT Total
Female	2157	2079	1583	4380	10199
Male	1933	5681	1113	3088	11815

1. **Headcount is calculated based on the following criteria**: *The primary qualification of the student; the qualification has not been cancelled; the student is registered for a subject.*
2. *Unaudited data.*

2.5 RACE CLASSIFICATION [1]

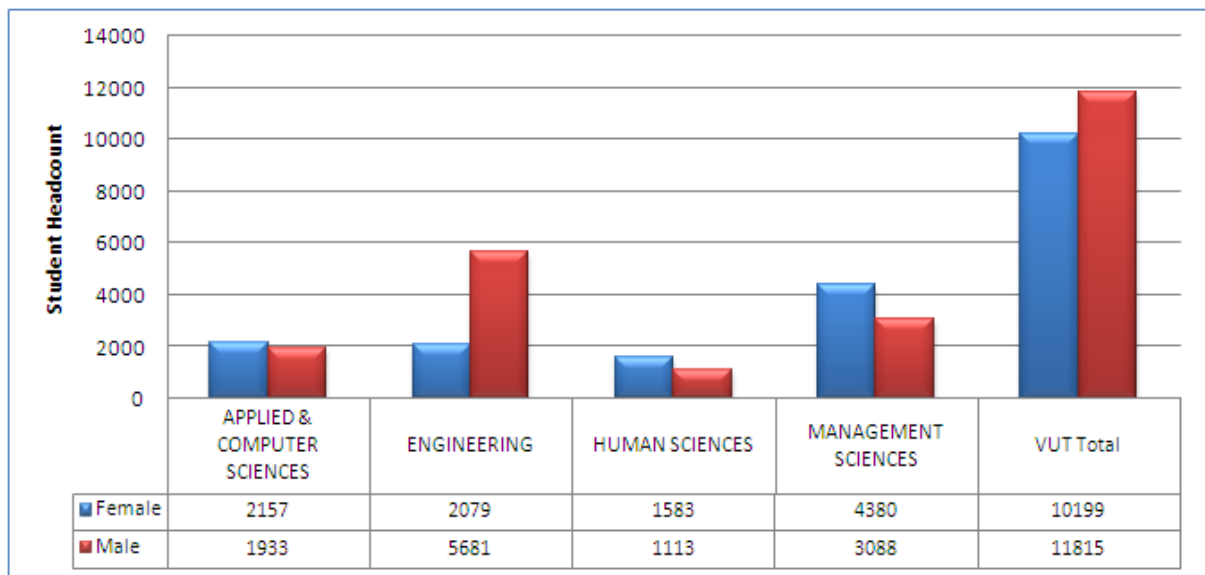| Faculty	2010				2011 [2]			
	Black	Coloured	Indian	White	Black	Coloured	Indian	White
APPLIED & COMPUTER SCIENCES	4035	26	1	39	4003	33	1	53
ENGINEERING	7099	35	84	440	7278	30	54	398
HUMAN SCIENCES	2391	50	21	147	2467	59	14	156
MANAGEMENT SCIENCES	7198	220	14	83	7171	237	11	49
Grand Total	**20723**	**331**	**120**	**709**	**20919**	**359**	**80**	**656**

RACE CLASSIFICATION (2010)
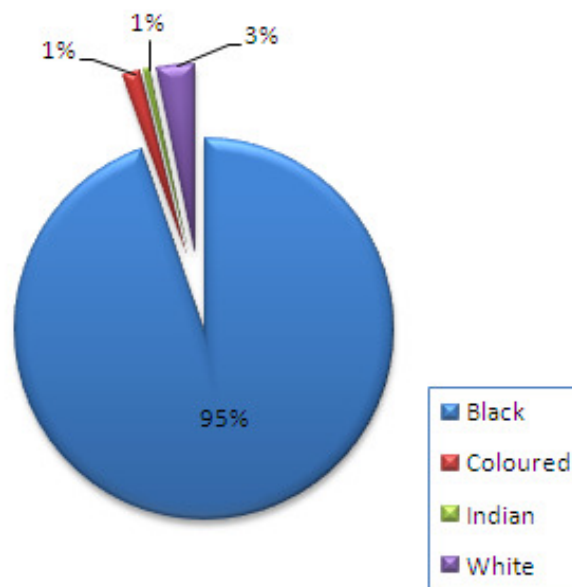
1. **Headcount is calculated based on the following criteria**: The primary qualification of the student; the qualification has not been cancelled; the student is registered for a subject

2. *Unaudited data.*

2.6 RESIDENTIAL PROFILE [1]

The graph below indicates that only 14% of all students live in the residences. The smaller Pie chart indicates the faculty in which the student is enrolled. The majority of students living in the residences are enrolled in the Faculty of Management Sciences.

| Faculty	2009	2010	2011 [2]
APPLIED & COMPUTER SCIENCES	453	542	515
ENGINEERING	850	1114	1028
HUMAN SCIENCES	233	374	442
MANAGEMENT SCIENCES	1180	1414	1441
Grand Total	**2716**	**3444**	**3426**

1. **Headcount is calculated based on the following criteria**: *The primary qualification of the student; the qualification has not been cancelled; the student is registered for a subject*

2. *Unaudited data.*

2.7 NATIONAL STUDENT FINANCIAL AID SCHEME (NSFAS)

2.7.1 STUDENTS [1] GRANTED NSFAS PER FACULTY.

The table below reflects the number of students per faculty who were granted NSFAS funding.

Faculty	2009	2010	2011 [2]
APPLIED & COMPUTER SCIENCES	955	1146	665
ENGINEERING	1102	1522	943
HUMAN SCIENCES	486	683	636
MANAGEMENT SCIENCES	2729	2620	2043
Grand Total	**5272**	**5971**	**4287**

The graph below indicates that only 21% of all students receive NSFAS assistance. The smaller pie chart indicates the faculty in which the student is enrolled for in 2010.
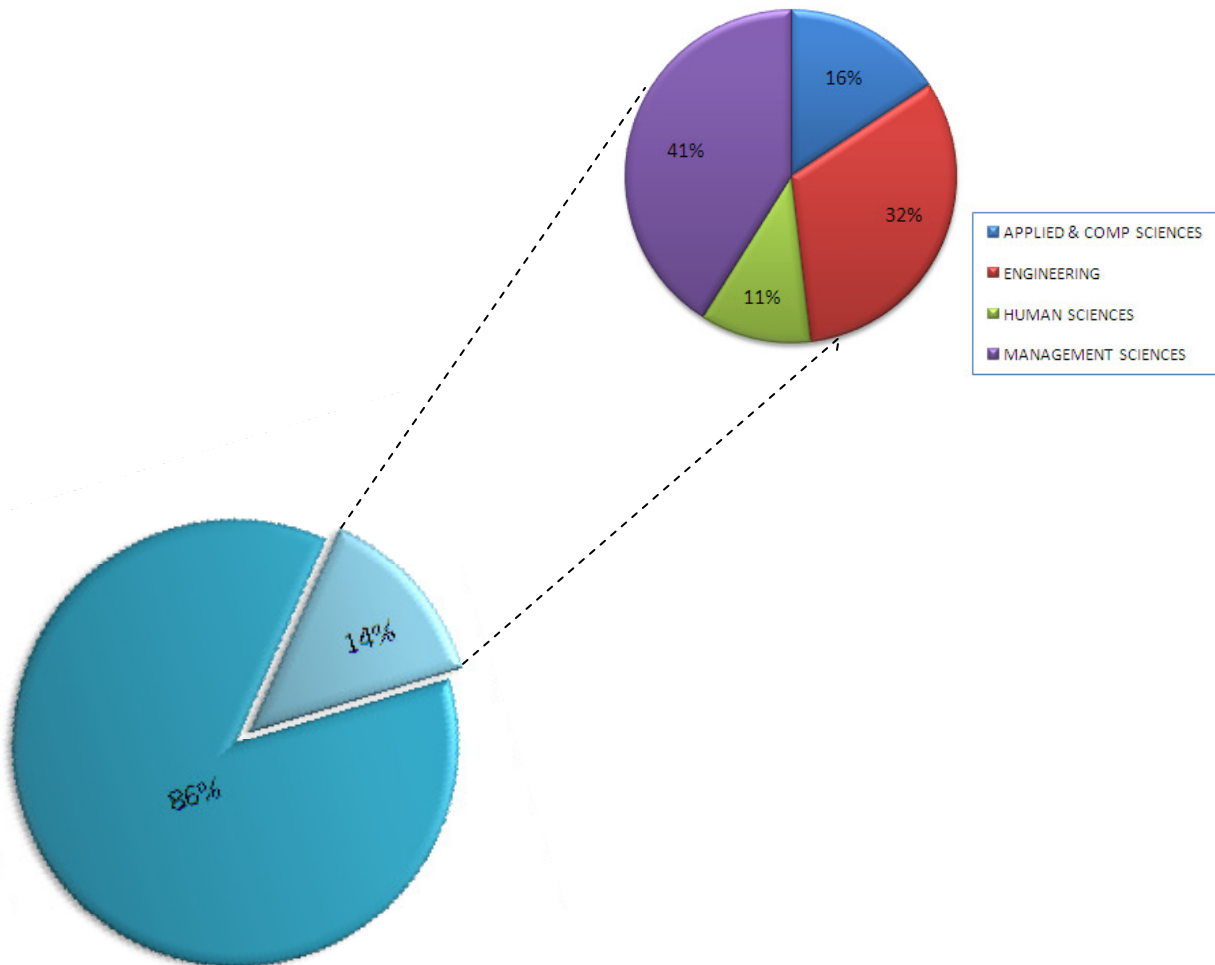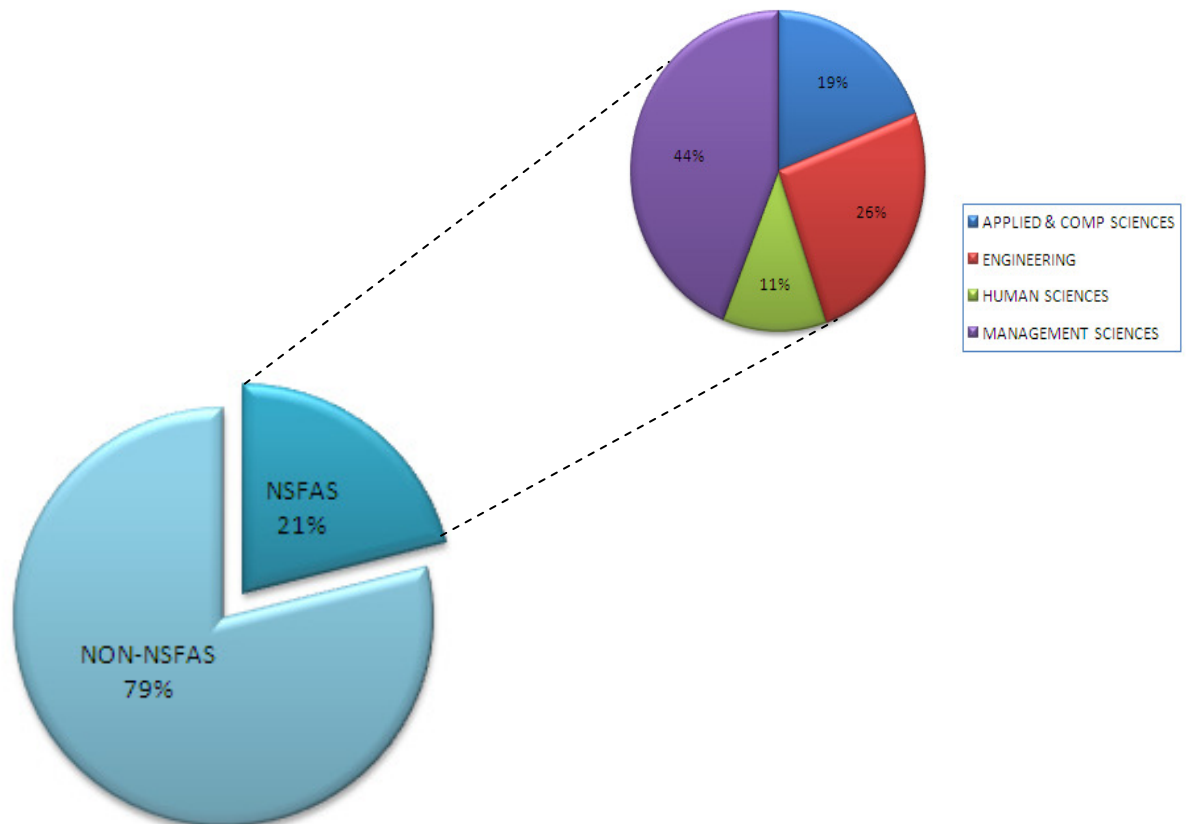

1. **Headcount is calculated based on the following criteria**: The primary qualification of the student; the qualification has not been cancelled; the student is registered for a subject.
2. - Unaudited data.

2.7.2 NSFAS FUNDING

The table below indicates the funding awarded to VUT by NSFAS and how it was allocated to students per year:

Amount allocated to:	2008	2009	2010
VUT by NSFAS	R 69, 079, 855.00	R 82, 711,374.00	R 91, 930,000.00
Students by VUT	R 60, 190, 658.00	R 79, 425, 374.00	R 91, 930, 000.00

The graph below indicates that there has been an increase in the amount of money that is being allocated to students over the past three years, though there has been a decrease in number of students using NSFAS.
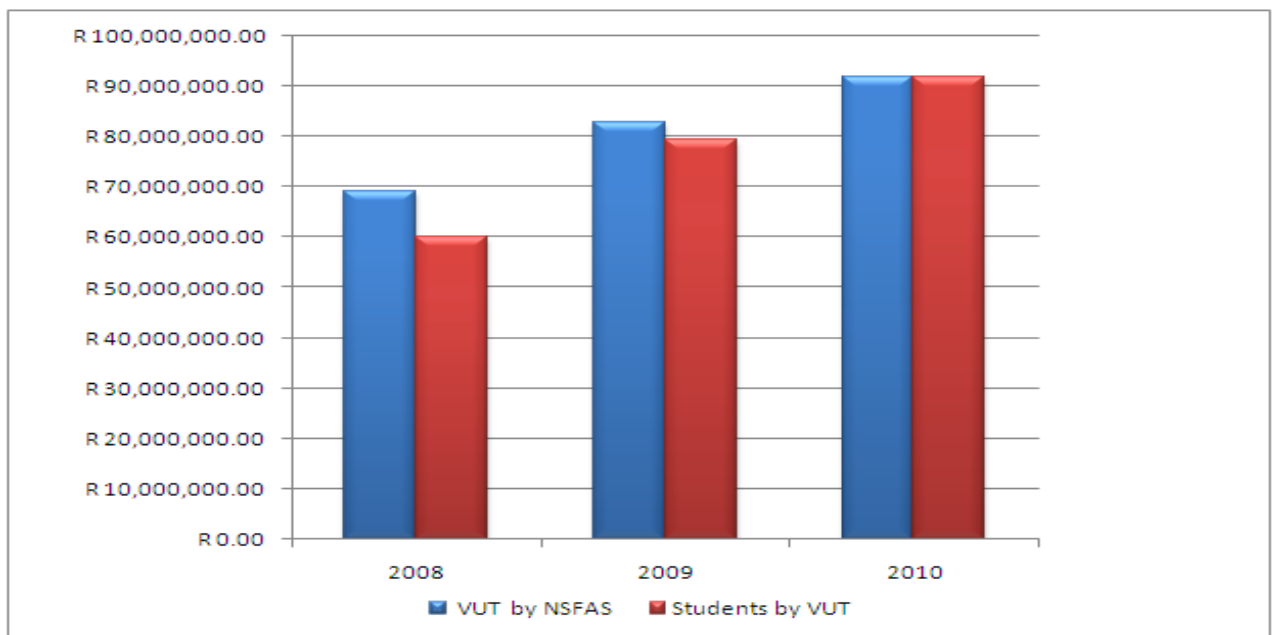
1. The above figures where provided by VUT NSFAS office.

2.8 LANGUAGE

Only 3% of students are English first language speakers, confirming the important role of the English development laboratories instructed by VUT in the past three years.

Se-Sotho is the mother tongue of 20% of students at VUT. Sepedi (15%) and Zulu (15%) are the next highest percentage. The Pie chart only reflects languages spoken by 9 % or more of the student population.

VENDA	8%
XHOSA	6%
AFRIKAANS	5%
ENGLISH	3%
SWAZI	4%
FRENCH	3%
OTHER AFRICAN LANG	1%

Pie chart legend:
- SESOTHO
- SEPEDI
- ZULU
- TSWANA
- TSONGA
- OTHER LANGUAGE

Pie chart values: 20%, 15%, 15%, 11%, 9%, 30%
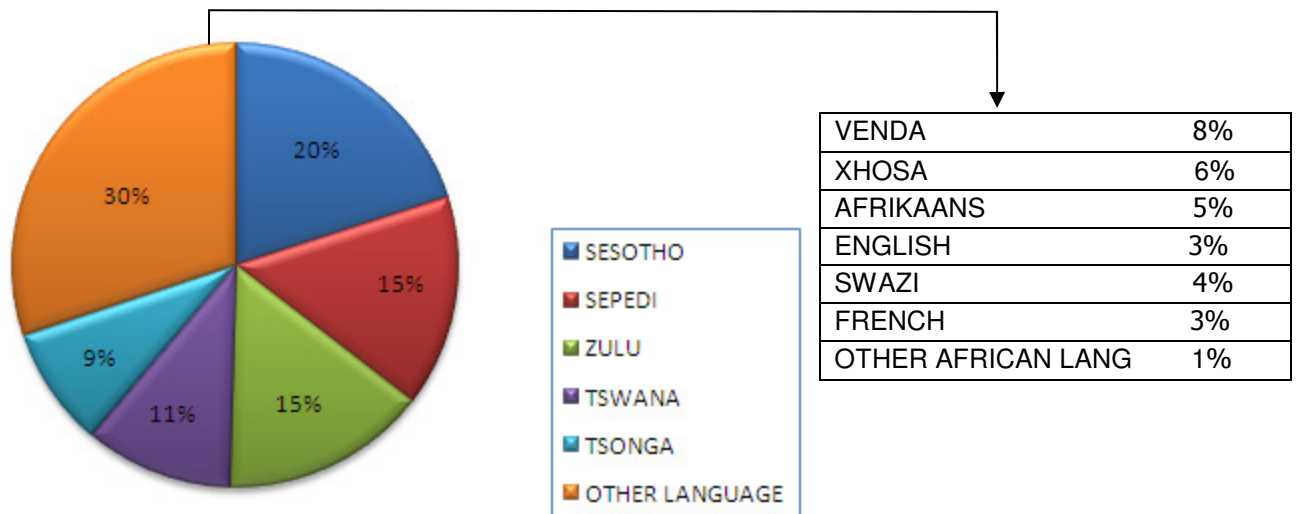
3. ACADEMIC PERFORMANCE INDICATORS

3.1 SUCCESS RATE

3.1.1 SUCCESS RATE PER FACULTY FOR JUNE AND NOVEMBER 2010 EXAMS

	APPLIED & COMP SCIENCES	ENGINEERING	HUMAN SCIENCES	MANAGEMENT SCIENCES	VUT
June	74.6%	70.9%	80.0%	78.2%	75.9%
November	70.6%	68.4%	74.7%	75.9%	72.8%
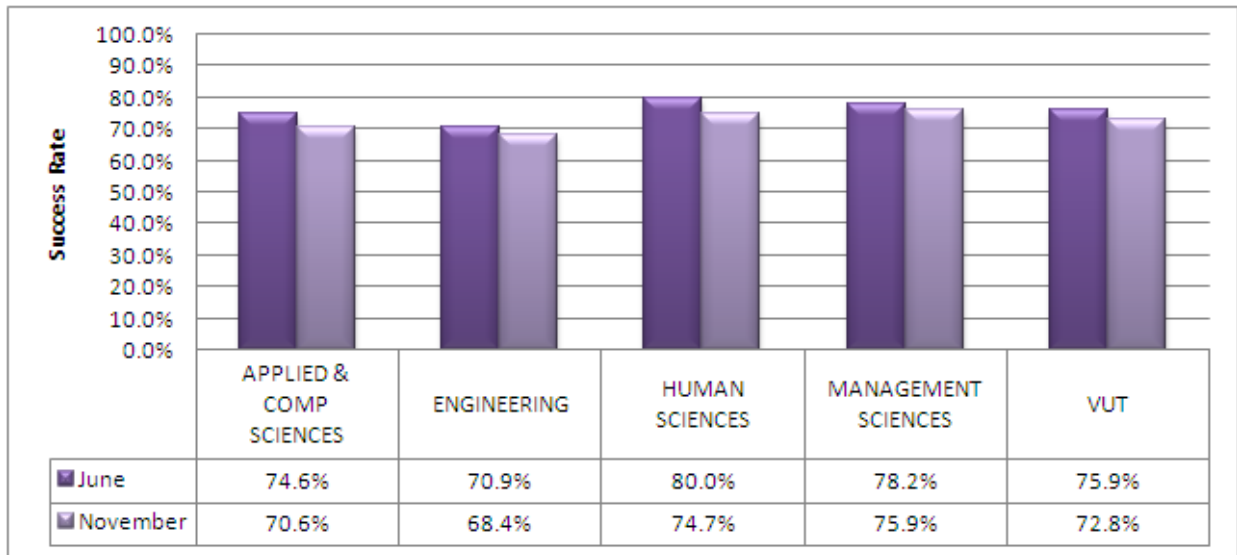
3.1.2 SUCCESS RATE PER FACULTY FOR 2009 AND 2010

	APPLIED & COMP SCIENCES	ENGINEERING	HUMAN SCIENCES	MANAGEMENT SCIENCES	VUT
2009	74%	68%	80%	75%	75%
2010	73%	70%	77%	77%	74%
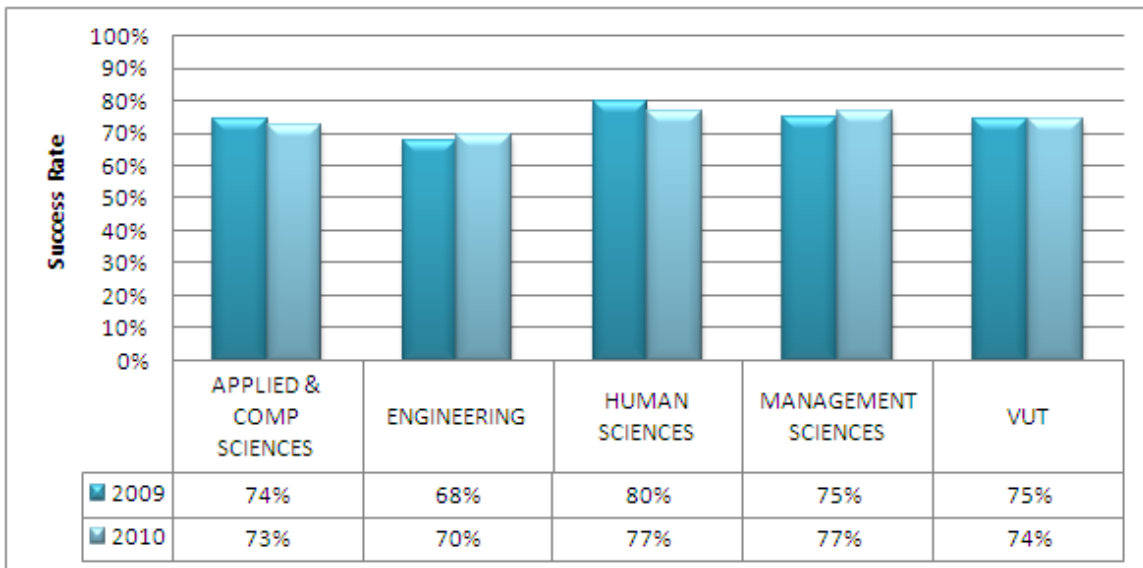
3.2 SUCCESS RATE [1] FOR PER DEPARTMENT JUNE AND NOVEMBER 2010 EXAMS

Faculty	Department	June	November
APPLIED & COMPUTER SCIENCES		**74.5%**	**70.5%**
	BIOSCIENCES	81.1%	76.4%
	CHEMISTRY	81.0%	81.0%
	HEALTH SCIENCES	73.2%	70.2%
	INF & COMM TECH, OFF MAN TECH	83.7%	74.2%
	MATHEMATICS	59.2%	52.7%
	PHYSICS & NON-DESTRUCT TESTING	68.1%	62.8%
	SOFTWARE STUDIES	74.1%	73.5%
ENGINEERING		**70.9%**	**68.3%**
	CHEMICAL ENGINEERING	60.1%	60.2%
	CIVIL ENGINEERING	83.1%	76.2%
	ELECTRONIC ENGINEERING	81.9%	79.6%
	INDUSTRIAL ENG. & OPS. MANAG.	80.0%	82.3%
	MECHANICAL ENGINEERING	61.9%	58.3%
	METALLURGICAL ENGINEERING	65.6%	69.0%
	POWER ENGINEERING	66.2%	54.3%
	PROCESS CONTROL & COMP SYSTEMS	71.3%	75.4%
HUMAN SCIENCES		**80.0%**	**74.6%**
	COMMUNICATION AND EDUCATION	82.9%	70.2%
	HOSPITALITY, TOURISM & PR MAN.	84.2%	81.0%
	LEGAL SCIENCES	74.9%	80.1%
	VISUAL ARTS & DESIGN	75.2%	75.8%
MANAGEMENT SCIENCES		**78.2%**	**75.7%**
	ACCOUNTANCY	68.6%	65.0%
	HR MANAGEMENT	82.6%	79.0%
	LOGISTICS	84.2%	83.4%
	MARKETING & SPORT MANAGEMENT	86.6%	83.5%
	OFFICE & SPORT MANAGEMENT		81.8%
Grand Total		**75.9%**	**72.7%**

1. *Success rate: Number of students that passed expressed as a percentage of the total number of students enrolled minus total number of students that cancelled for the module.*
2. *Consolidated – Includes site of delivery.*

3.3 SUCCESS RATE AND PASS RATE [1] AT THE VARIOUS SITES OF DELIVERY

Faculty	2009		2010		2011 [2]	
	Pass Rate	Success Rate	Pass Rate	Success Rate	Pass Rate	Success Rate
APPLIED & COMPUTER SCIENCES	84.2%	74.5%	83.7%	**72.6%**	84.4%	67.5%
Educity	84.4%	82.6%	78.8%	75.6%	83.0%	78.8%
Ekurhuleni	83.6%	75.7%	81.3%	72.1%	81.5%	62.3%
Secunda	71.3%	52.4%	76.3%	62.8%	81.0%	66.6%
Upington	86.1%	78.4%	86.2%	79.4%	86.4%	24.1%
Vanderbijlpark	85.0%	74.4%	85.1%	72.7%	85.1%	67.9%
ENGINEERING	84.0%	68.0%	86.4%	**69.6%**	85.6%	69.0%
Ekurhuleni	78.3%	72.5%	87.3%	78.4%	101.6%	70.3%
Secunda	66.7%	52.2%	76.3%	57.1%	71.2%	56.3%
Vanderbijlpark	85.4%	69.1%	87.0%	70.3%	86.2%	69.7%
HUMAN SCIENCES	86.5%	79.7%	85.5%	**76.7%**	91.0%	80.1%
Educity	84.8%	75.8%	85.2%	73.7%	89.7%	80.3%
Ekurhuleni	67.1%	60.5%	66.9%	53.7%	84.5%	67.2%
Secunda	76.4%	62.2%	77.1%	65.1%	90.6%	74.2%
Upington	84.6%	78.6%	89.5%	78.9%	84.1%	55.4%
Vanderbijlpark	90.8%	85.9%	88.3%	81.6%	92.5%	83.7%
MANAGEMENT SCIENCES	88.8%	75.2%	91.5%	**77.1%**	90.5%	76.3%
Educity	91.9%	78.8%	93.8%	81.8%	92.7%	81.9%
Ekurhuleni	79.4%	62.2%	83.1%	66.2%	82.9%	64.2%
Secunda	68.1%	55.4%	79.5%	64.6%	82.6%	62.1%
Upington	79.5%	67.1%	83.2%	70.3%	74.2%	62.3%
Vanderbijlpark	90.2%	77.0%	92.6%	74.5%	91.6%	73.5%
Grand Total	**86.2%**	**74.5%**	**87.2%**	**74.3%**	**88.1%**	**73.3%**

1. *Pass rate: Number of students that passed expressed as a percentage of the number that wrote exam. The pass rate will always be higher than the success rate.*
2. *- Data could change*
   - Pass and Success rate for 2011* is based on June exams only.
   - Data as 29 August 2011

4. GRADUATES

4.1 GRADUATE TOTAL (2008-2010) AND THE DISTRIBUTION ACROSS THE FACULTIES.
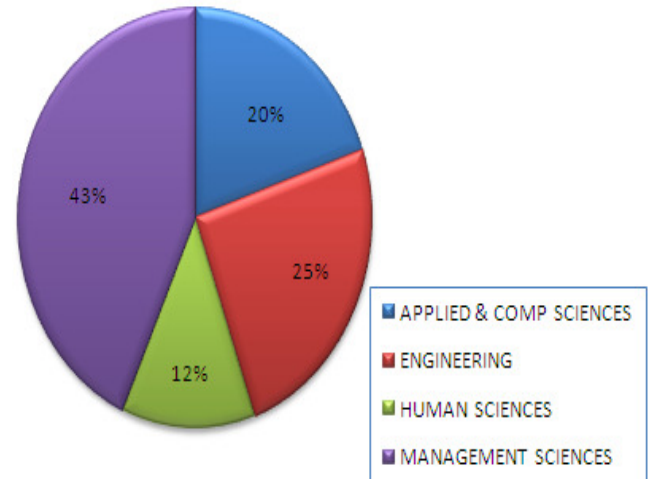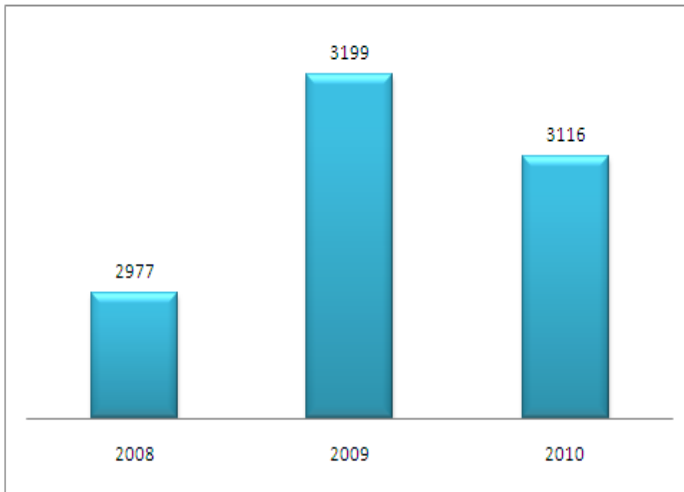
4.2 GENDER DISTRIBUTION OF GRADUATES.

Faculty	2008			2009			2010		
	Female	Male	Totals	Female	Male	Totals	Female	Male	Totals
APPLIED & COMPUTER SCIENCES	334	196	530	364	213	577	351	266	617
ENGINEERING	213	542	755	252	594	846	204	566	770
HUMAN SCIENCES	211	115	326	245	127	372	248	133	381
MANAGEMENT SCIENCES	815	551	1366	856	548	1404	821	527	1348
Grand Total	1573	1404	2977	1717	1482	3199	1624	1492	3116

4.3 GENDER DISTRIBUTION OF GRADUATES [1] PER FACULTY.

	APPLIED & COMP SCIENCES	ENGINEERING	HUMAN SCIENCES	MANAGEMENT SCIENCES	VUT Totals
Female	351	204	248	821	1624
Male	266	566	133	527	1492
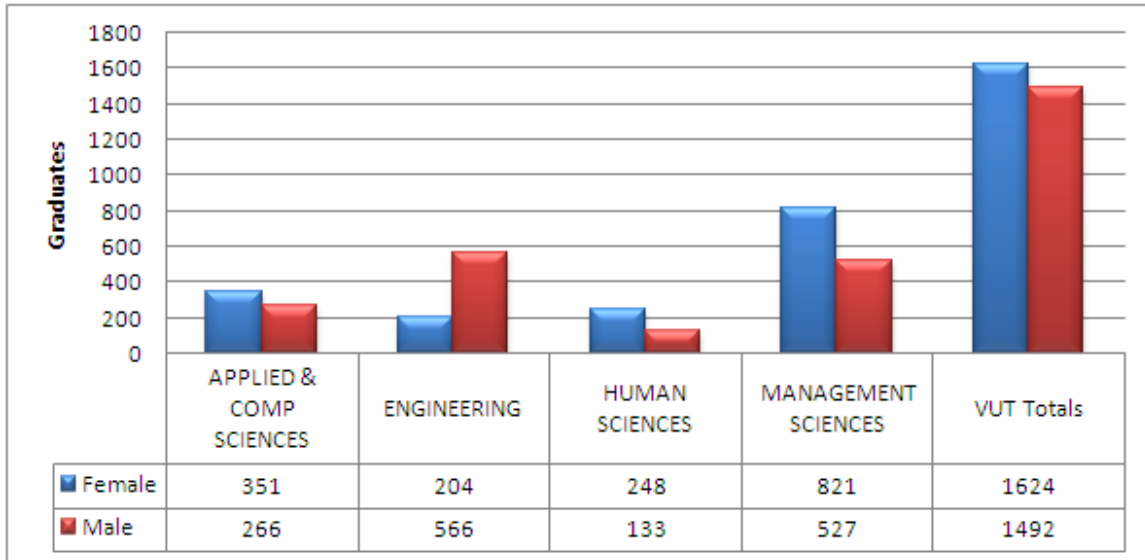
4.4 GRADUATION RATE FOR 2010

	APPLIED & COMP SCIENCES	ENGINEERING	HUMAN SCIENCES	MANAGEMENT SCIENCES
Female	11.3%	6.5%	8.0%	26.3%
Male	8.5%	18.2%	4.3%	16.9%
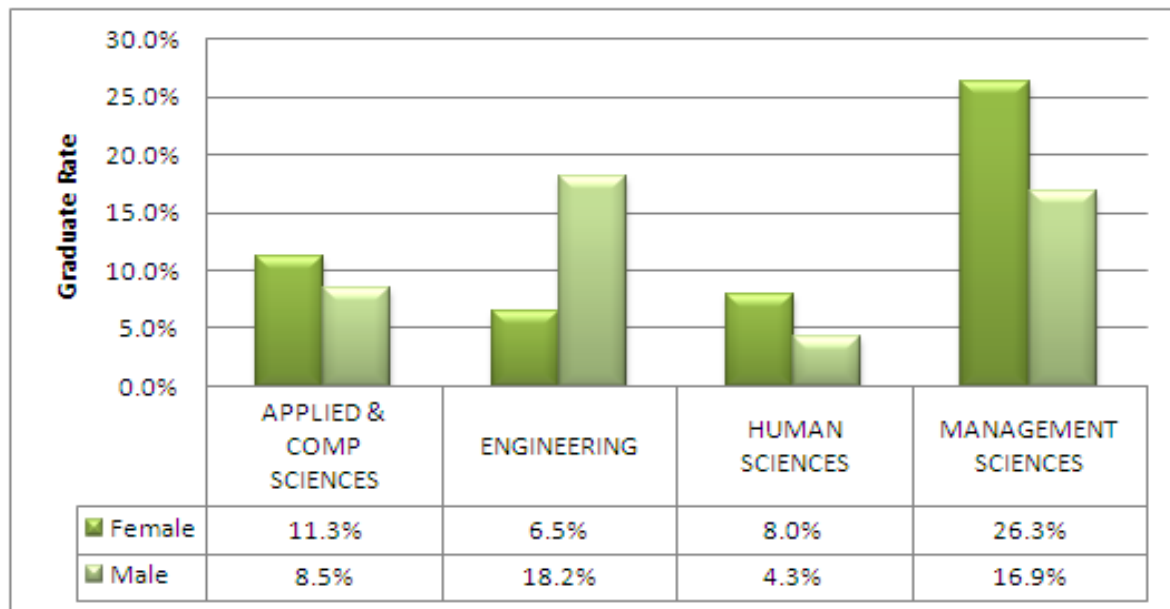
1. **Graduation Rate** - *Number of students graduated in Year N / number of students registered in Year N.*

SECTION B

1. INTERNATIONAL STUDENT SUMMARY FOR 2010

INDICATOR	VALUE
Headcount	1671
Percentage of residential profile	20.28%
Graduation rate (2010)	18.49%
Number of graduates (2010)	309

2. INTERNATIONAL STUDENT PROFILE

2.1 DISTRIBUTION OF STUDENT HEADCOUNT ACROSS FACULTIES:

Faculty	2009	2010	2011*
APPLIED & COMPUTER SCIENCES	387	428	413
ENGINEERING	567	639	725
FACULTY OF HUMAN SCIENCES	153	180	168
MANAGEMENT SCIENCES	419	424	432
Grand Total	**1526**	**1671**	**1738**

1.* - Unaudited data.
2. **Headcount is calculated based on the following criteria**: The primary qualification of the student;
the qualification has not been cancelled; the student is registered for a subject
3. Citizen code not equals to 100.
4. Alien Indicator is 'Yes'

2.2 DISTRIBUTION OF STUDENT HEADCOUNT PER COUNTRY

Country	2009	2010	2011*
ANGOLA	94	104	106
BENIN	1	1	
BOTSWANA	302	264	209
BURUNDI	2	2	2
CAMEROON	36	54	56
CENTRAL AFRICAN REPUBLIC	1	1	1
CHAD		1	1
CHINA	1	1	1
COMOROS	1	1	1
CONGO	5	13	17
COTE D'IVOIRE (IVORY COAST)			1
COUNTRIES IN EUROPE	7	1	
DEMOCRATIC REPUBLIC OF CONGO	378	501	568
EQUATORIAL GUINEA	2	3	4
ERITREA	1	1	1
ETHIOPIA	1	1	1
GABON	36	47	70
GHANA			1
HAITI	1	1	1
KENYA	2	2	4
LESOTHO	265	217	165
MALAWI	3	4	4
MOZAMBIQUE	5	9	11
NAMIBIA	19	16	16
NETHERLANDS		1	
NIGERIA	31	48	74
OTHER AFRICAN COUNTRIES	62	6	3
RWANDA	1	1	1
SOMALIA	2	4	5
SUDAN			1
SWAZILAND	192	246	281
SYRIAN ARAB REPUBLIC	1	1	2
TURKEY	1	1	
UGANDA	8	11	7
UNITED REPUBLIC OF TANZANIA	1	1	2
ZAMBIA	17	24	19
ZIMBABWE	47	82	102
Grand Total	**1526**	**1671**	**1738**

2.3 INTERNATIONAL STUDENT HEADCOUNTS AT PER CAMPUS:

Campus	2009	2010	2011*
Ekurhuleni	107	92	82
Secunda	19	16	13
Upington	9	10	9
Vanderbijlpark	1391	1553	1634
Grand Total	**1526**	**1671**	**1738**

2.4 GENDER DISTRIBUTION OF INTERNATIONAL STUDENT HEADCOUNT ACROSS FACULTIES (2009 – 2011*)

Faculty	2009		2010		2011*	
	Female	Male	Female	Male	Female	Male
APPLIED & COMP SCIENCES	132	255	133	295	132	281
ENGINEERING	71	496	67	572	73	652
HUMAN SCIENCES	99	54	103	77	86	82
MANAGEMENT SCIENCES	212	207	193	231	192	240
Grand Total	**514**	**1012**	**496**	**1175**	**483**	**1255**

GENDER DISTRIBUTION OF INTERNATIONAL STUDENTS ACROSS FACULTIES 2010

	APPLIED & COMP SCIENCES	ENGINEERING	HUMAN SCIENCES	MANAGEMENT SCIENCES
Female	133	67	103	193
Male	295	572	77	231
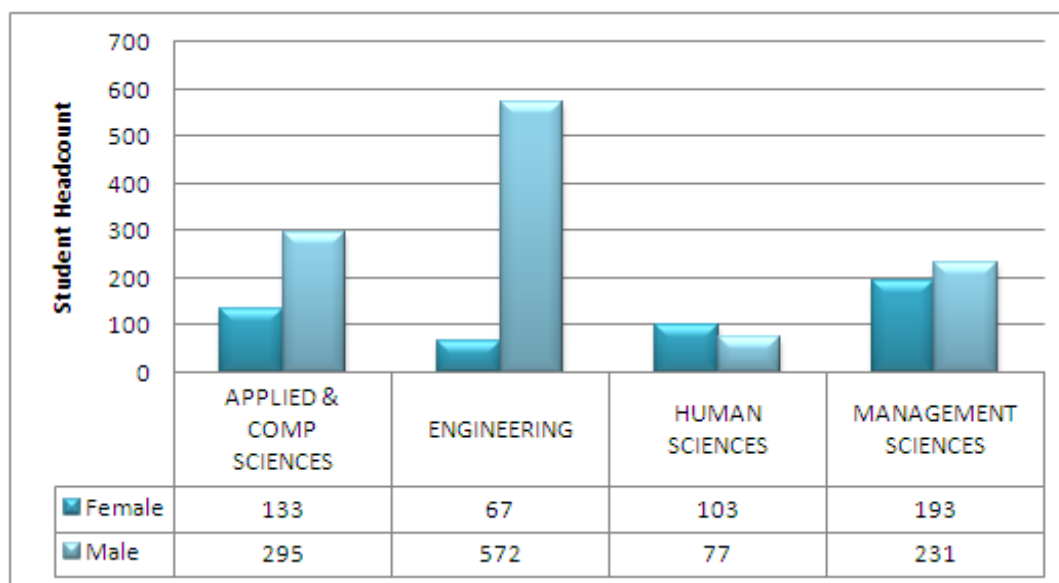
2.5 RESIDENTIAL PROFILE OF INTERNATIONAL STUDENTS [1]

Faculty	2009	2010	2011 [2]
APPLIED & COMPUTER SCIENCES	66	79	77
ENGINEERING	99	109	97
HUMAN SCIENCES	29	56	50
MANAGEMENT SCIENCES	91	95	94
Grand Total	285	339	318

2.6 LANGUAGE

French is the mother tongue of 34% of international students at VUT. Tswana (17%) and Swazi (15%) are the next highest percentage.

The table next to the graph shows the least percentage of international languages.
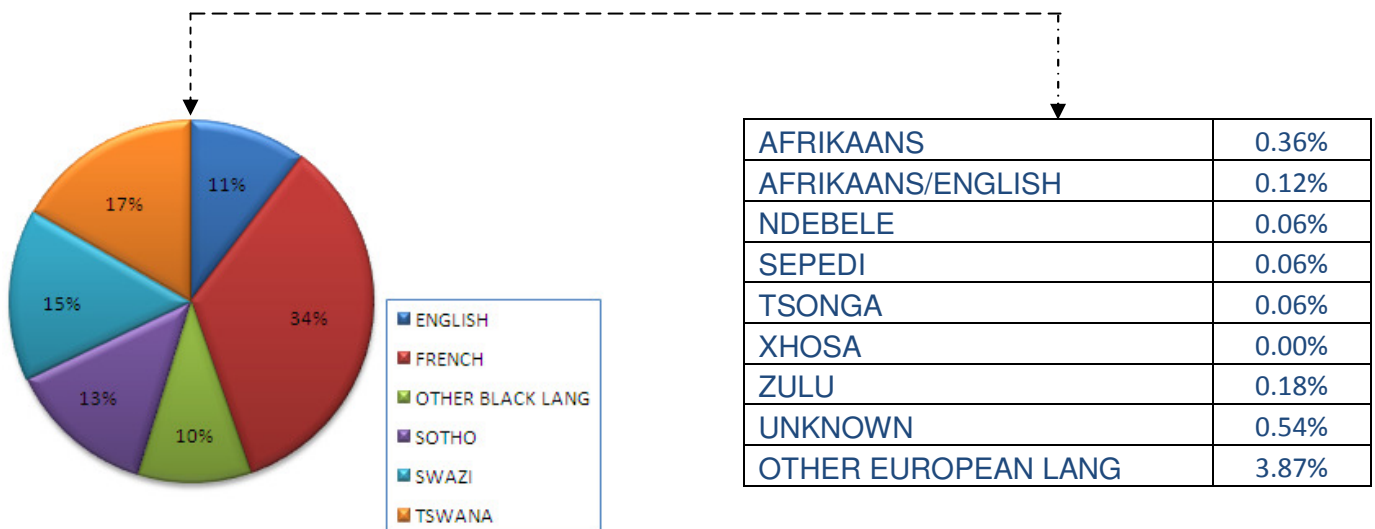
AFRIKAANS	0.36%
AFRIKAANS/ENGLISH	0.12%
NDEBELE	0.06%
SEPEDI	0.06%
TSONGA	0.06%
XHOSA	0.00%
ZULU	0.18%
UNKNOWN	0.54%
OTHER EUROPEAN LANG	3.87%

1. **Headcount is calculated based on the following criteria**: The primary qualification of the student; the qualification has not been cancelled; the student is registered for a subject
2. - Unaudited data.
   - Citizen code not equals to 100.
   - Alien Indicator is 'Yes'

SECTION C

5. STAFF PROFILE

5.1 HEAD COUNT TOTAL OF PERMANENTLY APPOINTED STAFF CATEGORY

CATEGORY	2008	2009	2010
Instruction/Research Professional	280	309	322
Executive/Administrative/Managerial Professionals	40	45	45
Specialist/Support Professionals	83	84	89
Total Professional Staff	**403**	**438**	**456**
Technical Employees	60	59	58
Non-professional Administrative Employees	208	213	215
Crafts/Trades Employees	4	5	6
Service\Employees	232	242	231
Total Non-Professional Staff	**504**	**519**	**510**
TOTAL PERMANENT STAFF	**907**	**957**	**966**

5.2 FULL-TIME EQUIVALENT STAFF BY CATEGORY

CATEGORY	2008	2009	2010
Instruction/Research Professional	367	396	445
Executive/Administrative/Managerial Professionals	39	43	45
Specialist/Support Professionals	89	56	111
Total Professional Staff	**496**	**528**	**601**
Technical Employees	69	81	93
Non-professional Administrative Employees	328	352	347
Crafts/Trades Employees	4	5	7
Service\Employees	271	287	285
Total Non-Professional Staff	**672**	**720**	**732**
TOTAL STAFF FTE	**1168**	**1248**	**1333**

5.3 EQUITY PROFILE OF PERMANENT STAFF IN 2010
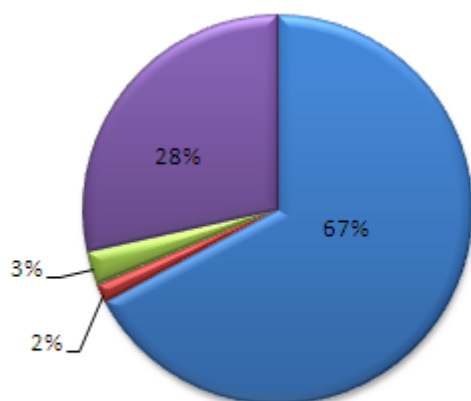
Divisions	Black	Coloured	Indian	White	Total
Applied and Computer Science	65	2	6	32	105
Engineering	58		2	61	121
Human Science	30	1	4	53	88
Management Science	45		3	23	71
Non-Academic Divisions	451	12	12	106	581
Grand Total	**649**	**15**	**27**	**275**	**966**
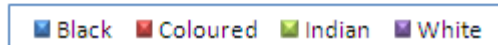
5.4 GENDER PROFILE OF PERMANENT STAFF

| Divisions	Black			Coloured			Indian			White		
	F	M	Total	F	M	Total	F	M	Total	F	M	Total
Applied and Computer Science	28	37	65	2		2	3	3	6	22	10	32
Engineering	6	52	58					2	2	9	52	61
Human Science	20	10	30	1		1	3	1	4	39	14	53
Management Science	20	25	45				1	2	3	16	7	23
Non-Academic Divisions	257	194	451	7	5	12	6	6	12	78	28	106
Grand Total	**331**	**318**	**649**	**10**	**5**	**15**	**13**	**14**	**27**	**164**	**111**	**275**

5.5 HIGHEST FORMAL QUALIFICATION OF PERMANENT APPOINTED INSTRUCTION/RESEARCH STAFF

Divisions	Doctoral	Masters	Other	Grand Total
Applied and Computer Science	12	39	28	79
Engineering	18	25	41	84
Human Science	4	24	34	62
Management Science	8	33	20	61
Non-Academic Divisions	4	10	22	36
Grand Total	**46**	**131**	**145**	**322**
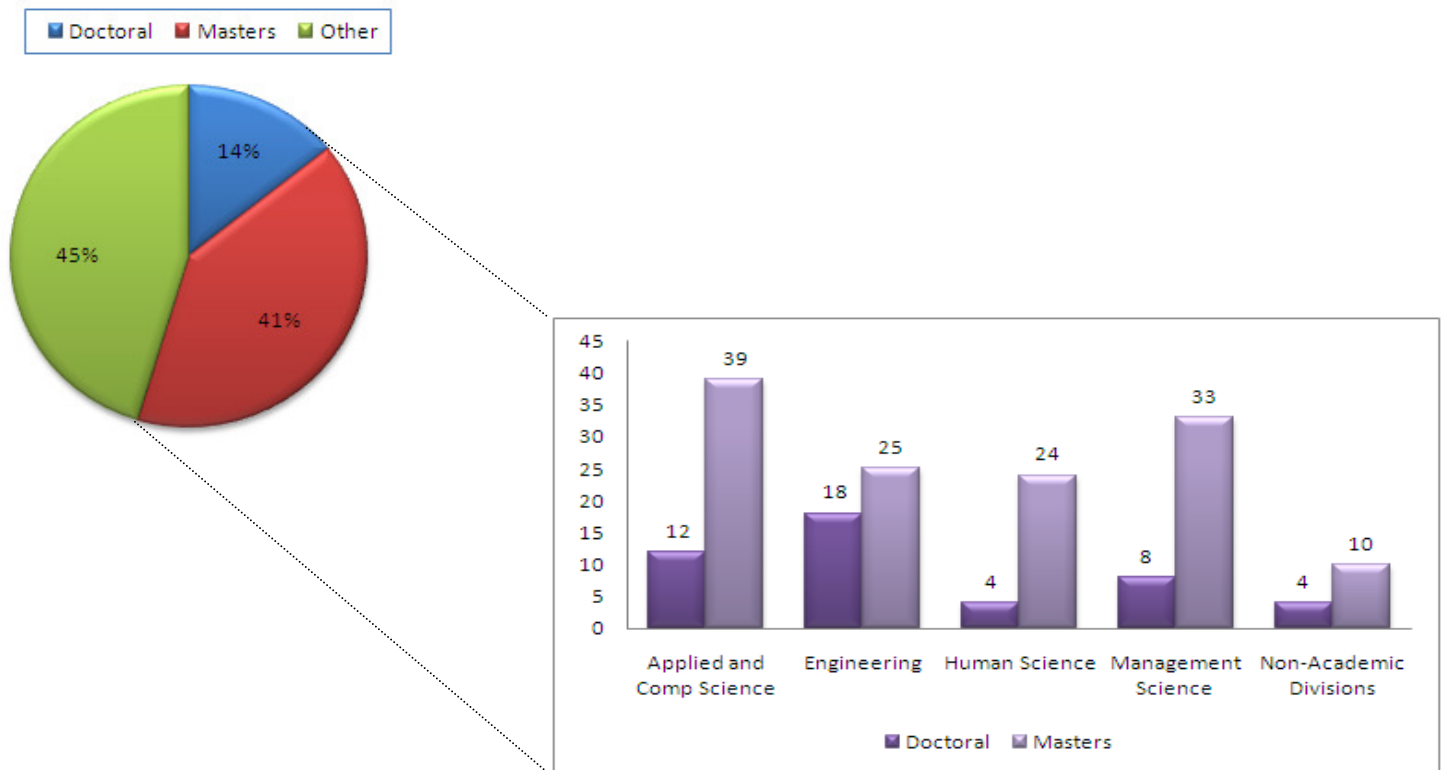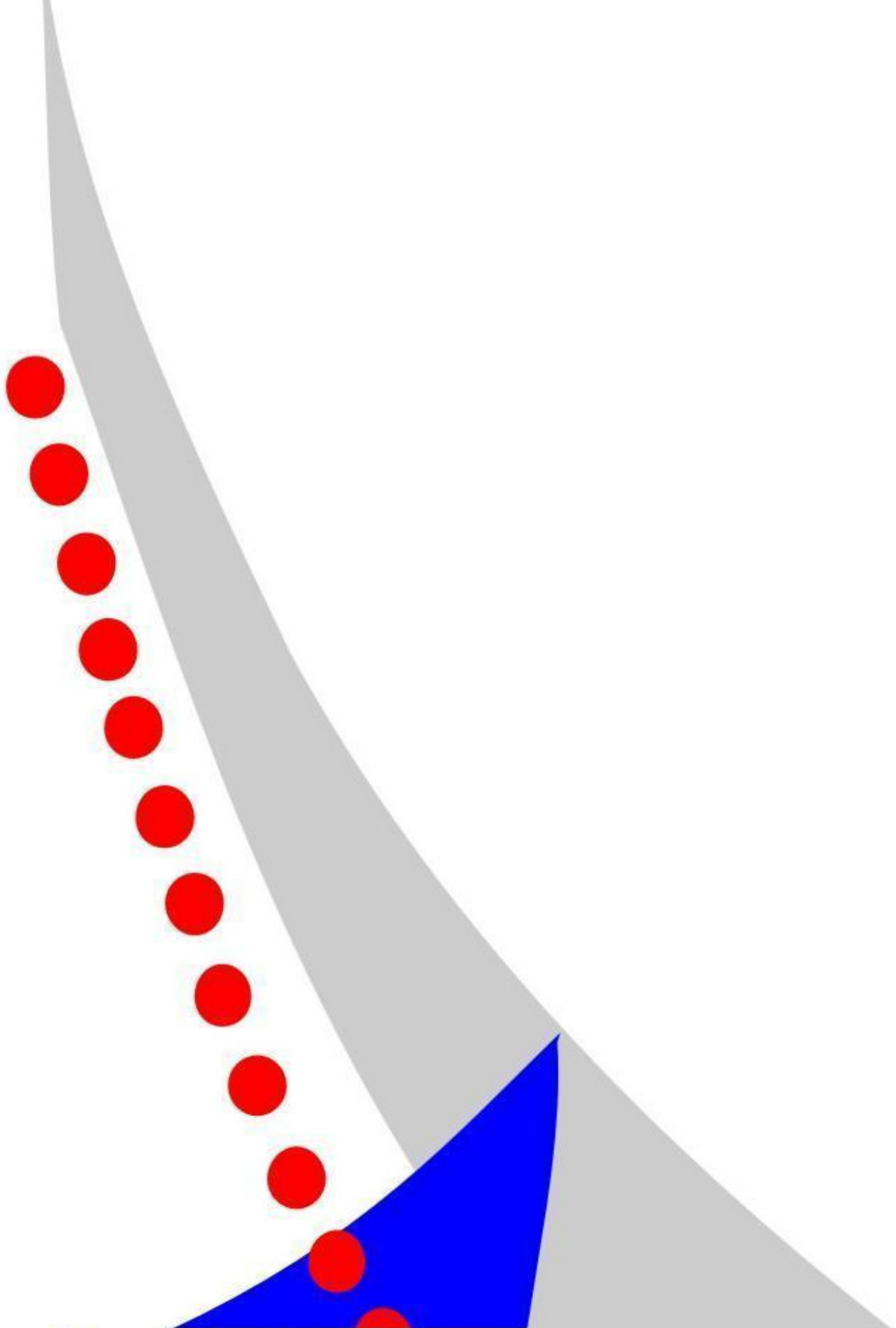
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