

Student Persistence & Graduation Report 2017



OFFICE OF QUALITY ASSURANCE AND INSTITUTIONAL EFFECTIVENESS

INTRODUCTION

Rationale

To improve institutional effectiveness, UTT has placed greater emphasis on student retention and completion indicators. Although persistence and graduation rates are well-researched phenomena in tertiary education globally, there is a dearth of data related to these in Trinidad and Tobago and the wider Caribbean. Consequently, there are no regional or national benchmarks demarcating what levels are ideal. Institutional research on persistence and graduation rates is intended to support institutional planning and assist the University to better achieve its educational goals.

Approach

The data for the report were extracted from the Student Information System (SIS) as at 31, October 2017 with the assistance of the Office of the Registrar. The data presented in this report are subdivided into two interrelated sections. The first section addresses first year persistence rates with respect to the 2015/16 intake and comparative data from the previous four years. It also compares these rates with respect to Academic Field, Programme Level, Enrolment Status and Gender differences. A detailed analysis for each programme is appended to this report. The first year persistence rate is calculated as the proportion of the respective cohort that enrolls or completes in the academic year immediately following their first year of entry. The focus on first year persistence is based on previous reports and analyses which indicated that non-persistence is highest from the first to second years of enrolment across all programmes. This approach is supported by the literature which suggests that the most critical time for a student to decide whether to leave an institution is during their first year. The first year persistence rate is also one of the targeted indicators in the UTT Strategic Plan 2017-2022.

The next section of the report presents the various graduation rates for eligible cohorts between 2009/10 and 2015/16. The graduation rate is calculated as the percentage of the respective cohort that completed the programme within a specified period of time. Graduation rates are calculated for three duration categories which include the percentage of the entering cohort that completed in 100% of the normal duration, 150% of the normal duration, and over 150% of normal duration. This paper-based report focuses on the proportion of the respective cohorts that graduate in 150% of normal time. This rate is also one of the targeted indicators in the UTT Strategic Plan 2017-2022 and consistent with the most common graduation rate calculation used in the United States and other jurisdictions. A detailed listing of all three rate calculations for each programme is appended to this report, and the interactive version of the report also allows readers to explore the data with respect to each of the three rates. This report presents the graduation rate by Programme Level. This approach was chosen because of the unique programme mix of UTT, where more than 2 in 5 of our students are enrolled in sub-baccalaureate programmes and undergraduate degrees are offered with a duration of either three or four years. Academic Field, Enrolment Status, Age, and Gender differences among the graduation rates are also explored.



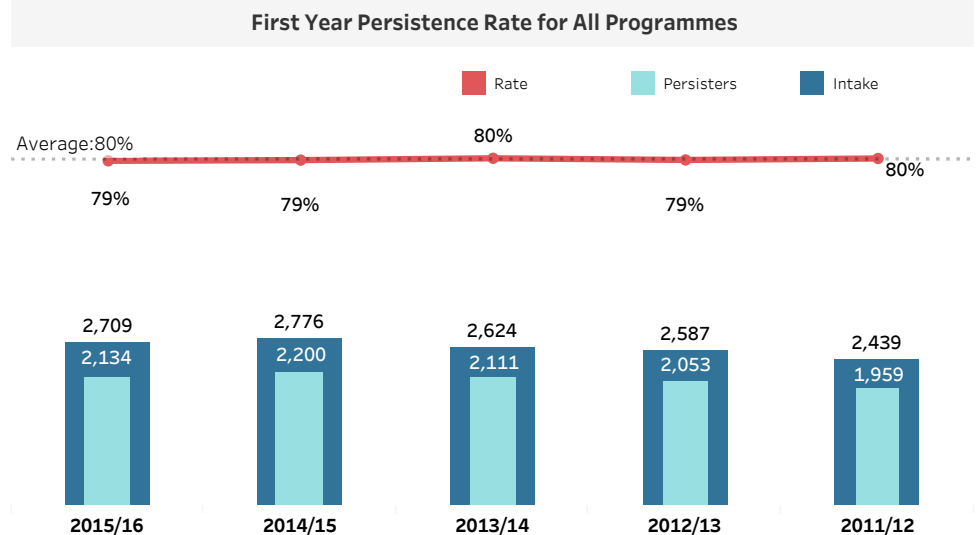
STUDENT PERSISTENCE AND GRADUATION REPORT 2017

FIRST YEAR PERSISTENCE RATES All Programmes, Academic Field

Overview

The data showed that first year persistence rates for all programmes with respect to new students entering in 2015/16 averaged 79%. This suggests that 1 in 4 of all new students did not persist past the first year of their programme.

The analysis also found that the rates have remained about the same at approximately 80% with respect to cohorts over the past five academic years.



Academic Field

The data showed that first year persistence rates ranged from 100% to 63% across the various academic fields with respect to the 2015/16 intake. The analysis found that Arts, Letters and Public Affairs, Marine Sciences and Environmental Studies, Sports and Leisure Studies, and Fashion and Design had rates at 90% or higher for that year. However, Bridging Programmes, Maritime Studies, Information and Communication Technology, and Research Programmes had rates below 70% for the same period.

Compared to the previous intake year 2014/15, the analysis found that programmes in the field of Health Sciences and Biomedical Engineering, had the largest improvement in first year persistence rates, while Maritime Studies saw the largest decrease year-on-year.

On average, over the past five years Arts, Letters and Public Affairs had the highest rate of 97%, while Research Programmes had the lowest rate at 62%.

First Year Persistence Rate by Academic Field						
	Average	2015/16	2014/15	2013/14	2012/13	2011/12
Arts, Letters and Public Affairs	97%	100%	100%	90%	90%	100%
Aviation Studies	93%	87%	92%			
Marine Sciences and Environmental Studies	92%	96%	92%	86%	93%	96%
Education Programmes	86%	87%	84%	86%	84%	88%
Performing Arts	82%	76%	81%	92%	83%	79%
Sports and Leisure Studies	82%	91%	86%	87%	74%	83%
Mechanical Engineering	82%	75%	82%	84%	83%	81%
Petroleum Engineering	81%	81%	78%	88%	82%	74%
Process Engineering	81%	82%	82%	82%	79%	81%
Biosciences, Agriculture and Food Technolo..	80%	78%	77%	85%	81%	85%
Utilities Engineering	79%	74%	81%	84%	83%	75%
Design and Manufacturing Engineering	79%	82%	78%	72%	79%	82%
Fashion and Design	78%	90%	81%	81%	70%	77%
Civil Engineering	77%	75%	77%	79%	74%	85%
Maritime Studies	77%	68%	83%	76%	74%	58%
Health Sciences and Biomedical Engineering	71%	80%	63%	68%	52%	86%
Information and Communication Technology	71%	67%	69%	71%	71%	80%
Bridging Programmes	70%	69%	73%	69%	78%	62%
Crime, Justice and Public Safety	69%	84%	71%	68%	64%	100%
Multidisciplinary Research Programmes	62%	63%	60%	64%	67%	57%

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FIRST YEAR PERSISTENCE RATES

Programme Level, Enrolment Status, Gender, Age

Programme Level

The data showed that first year persistence rates ranged from 86% to 63% across the various programme levels with respect to the 2015/16 intake. The analysis found that taught master's degrees had the highest first year persistence rate of 86%, while postgraduate research programmes had a persistence rate of 63%. The analysis found that year-on-year rates have remained stable within all programmes levels. Over the five year period, undergraduate programmes had the highest rate on average of 85% compared to postgraduate research degrees which had the lowest rate of 62% on average.

Enrolment Status

The analysis also showed that with respect to the 2015/16 cohort, full-time students had notably higher persistence rates than those enrolled part-time, at 82% and 74% respectively. This trend was similar with respect to cohorts in the five-year period which was analysed with average rates of 82% and 76% for full-time and part-time students respectively.

Age Group

The data showed that first year persistence rates were marginally higher among those in the 17-24 and 35 and older age groups with respect to the 2015/16 cohort. Further, the analysis showed that the 17-24 age-group had the highest average rates compared to the other age groups over the five year period, at 81% compared to 77% for the other groups.

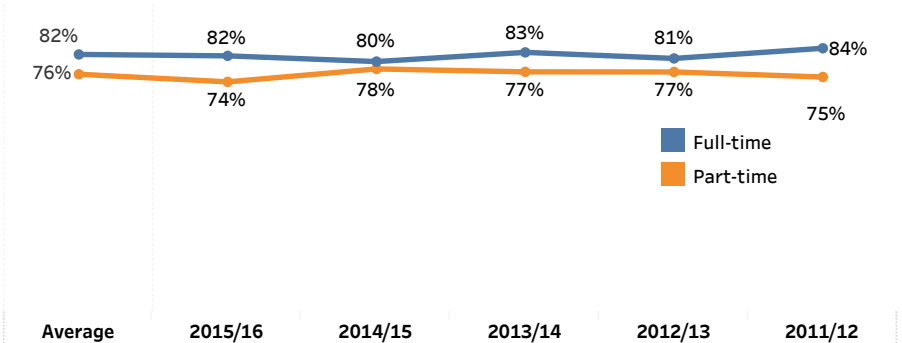
Gender

With respect to the 2015/16 cohort, the analysis also found female students had significantly higher persistence rate than their male counterparts, 84% and 75% respectively. This trend was similar with respect to cohorts in the five year period with average rates of 84% and 77% for female and male students respectively.

First Year Persistence Rate by Programme Level

	Average	2015/16	2014/15	2013/14	2012/13	2011/12
Certificate	75%	75%	76%	73%	76%	72%
Diploma	78%	73%	76%	81%	77%	78%
Undergraduate degree	85%	85%	84%	84%	83%	84%
Master's degree	84%	86%	82%	77%	83%	87%
Postgraduate research degree	62%	63%	60%	64%	67%	57%

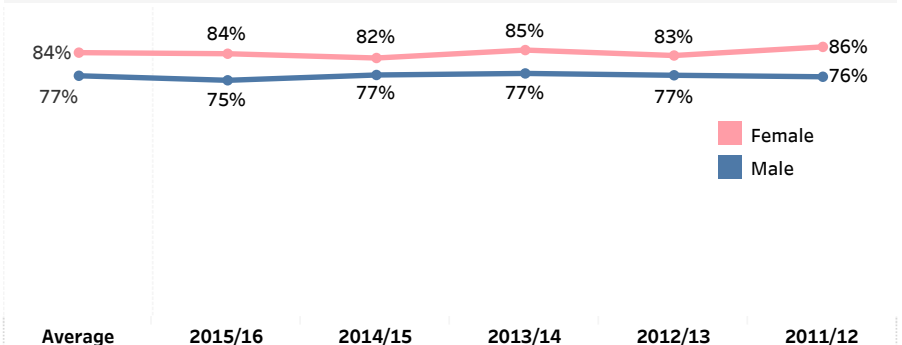
First Year Persistence Rate by Enrolment Status



First Year Persistence Rate by Age-group

	Average	2015/16	2014/15	2013/14	2012/13	2011/12
17-24 yrs.	81%	80%	81%	82%	82%	80%
25-34 yrs.	77%	76%	75%	77%	76%	80%
35 yrs. and older	77%	80%	79%	75%	72%	80%

First Year Persistence Rate by Gender



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GRADUATION RATES Certificate Programmes

Certificate Programmes

The analysis for certificate programmes focused on cohorts between 2011/12 and 2015/16. The data showed that for these cohorts, the graduation rate (150% of normal time) ranged from 52% - 63% for all certificate programmes, with an average of 58%. This suggests that 3 in 5 certificate students completed their programme within two years based on the average over the last five cohorts.

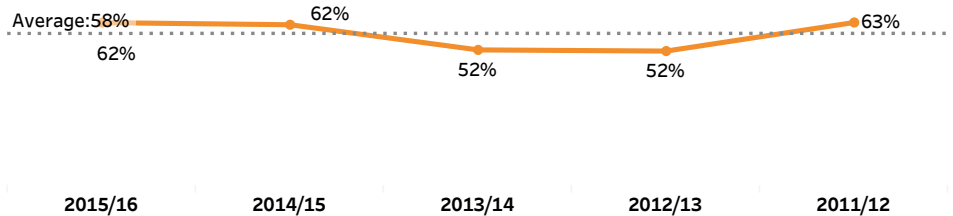
Graduation rates for students that enrolled full-time were generally higher than those that enrolled part-time. On average, 65% of full-time students enrolled in certificate programmes completed within two years, compared to 51% for part-time students.

The analysis by Academic Field showed that on average, Sports and Leisure Studies had the highest graduation rate (80%), while Biosciences, Agriculture, and Food Technologies programmes had the lowest (33%), based on the average for the five cohorts.

Graduation rates for female students were slightly higher than for males. On average, 60% of females completed within two years compared to 57% of males.

The analysis by Age-group showed that on average, 17-24 year olds had the highest graduation rate at 60%, while rates for those in age groups 25-34 and 35 and over were 55% and 52% respectively.

Graduation Rates - Certificate Programmes



Graduation Rates by Enrolment Status - Certificate Programmes

	Average	2015/16	2014/15	2013/14	2012/13	2011/12
Full-time	65%	70%	66%	60%	59%	65%
Part-time	51%	52%	56%	43%	46%	60%

Graduation Rates by Academic Field - Certificate Programmes

	Average	2015/16	2014/15	2013/14	2012/13	2011/12
Sports and Leisure Studies	80%	85%	85%	92%	60%	81%
Aviation Studies	77%	73%	80%			
Performing Arts	72%	74%	78%		65%	
Process Engineering	71%	76%	72%	64%	69%	70%
Education Programmes	60%	77%	65%	60%	44%	55%
Information and Communication Technology	54%	65%	68%	38%	36%	72%
Crime, Justice and Public Safety	52%	67%	53%	49%	48%	
Bridging Programmes	50%	53%	52%	42%	44%	55%
Biosciences, Agriculture and Food Technologies	33%	26%	46%	100%		

Graduation Rates by Gender - Certificate Programmes

	Average	2015/16	2014/15	2013/14	2012/13	2011/12
Female	60%	63%	65%	56%	50%	65%
Male	57%	62%	60%	51%	52%	62%

Graduation Rates by Age-group- Certificate Programmes

	Average	2015/16	2014/15	2013/14	2012/13	2011/12
17-24 yrs.	60%	64%	62%	55%	54%	62%
25-34 yrs.	55%	63%	56%	48%	45%	70%
35 yrs. and older	52%	50%	68%	43%	53%	40%

STUDENT PERSISTENCE AND GRADUATION REPORT 2017

GRADUATION RATES Diploma Programmes

Diploma Programmes

The analysis for diploma programmes determined graduation rates for cohorts between 2010/11 and 2014/15. The data showed that for these cohorts, the graduation rate (150% of normal time) ranged from 37% - 41% for all diploma students, with an average of 40%. This suggests that on average, 2 in 5 diploma students completed their programme within three years.

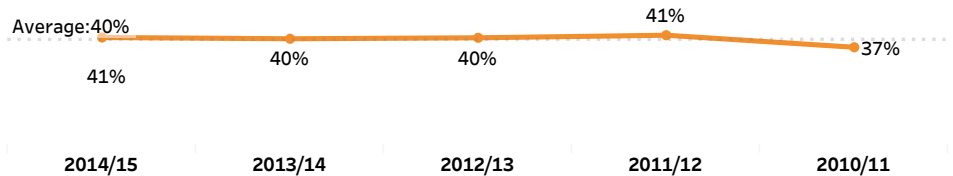
Rates for students who enrolled on a full-time basis were higher than for those who enrolled part-time. On average, 48% of full-time students graduated after three years compared to 31% for part-time students.

The analysis by Academic Field showed that Biosciences, Agriculture and Food Technologies had the highest three-year graduation rate (59%), while Information and Communication Technology had the lowest (27%), based on the average for the five cohorts.

Rates for female students were higher than for males. On average, 49% of females graduated after three years compared to 37% of males.

The analysis by Age-group showed that on average, 17-24 year olds had the highest three-year graduation rate (44%), while 30% of students between the ages of 25-34, and 33% of those 35 years and over graduated after three years.

Graduation Rates - Diploma Programmes



Graduation Rates by Enrolment Status - Diploma Programmes

	Average	2014/15	2013/14	2012/13	2011/12	2010/11
Full-time	48%	44%	48%	46%	51%	47%
Part-time	31%	35%	29%	33%	32%	27%

Graduation Rates by Academic Field - Diploma Programmes

	Average	2014/15	2013/14	2012/13	2011/12	2010/11
Biosciences, Agriculture and Food Technol..	59%	56%	56%	51%	74%	61%
Fashion and Design	55%	60%	54%	53%	63%	45%
Performing Arts	54%	46%	70%	35%	50%	63%
Petroleum Engineering	53%	47%	54%	58%	50%	56%
Crime, Justice and Public Safety	41%	51%	45%	11%	100%	33%
Maritime Studies	41%	50%	52%	35%	38%	27%
Mechanical Engineering	41%	49%	45%	43%	35%	34%
Process Engineering	38%	49%	28%	39%	36%	37%
Civil Engineering	37%	37%	39%	31%	46%	30%
Utilities Engineering	34%	30%	38%	45%	32%	25%
Information and Communication Technolo..	27%	24%	18%	28%	35%	34%

Graduation Rates by Gender - Diploma Programmes

	Average	2014/15	2013/14	2012/13	2011/12	2010/11
Female	49%	49%	47%	48%	52%	48%
Male	37%	37%	37%	38%	38%	33%

Graduation Rates by Age-group - Diploma Programmes

	Average	2014/15	2013/14	2012/13	2011/12	2010/11
17-24 yrs.	44%	42%	43%	45%	45%	41%
25-34 yrs.	30%	34%	28%	31%	28%	26%
35 yrs. and older	33%	36%	40%	18%	43%	33%

STUDENT PERSISTENCE AND GRADUATION REPORT 2017

GRADUATION RATES Bachelor Level Programmes (3-year)

Bachelor Level Programmes (3-year)

The analysis for three-year bachelor level programmes examined graduation rates for cohorts between 2009/10 and 2012/13. The data showed that for these cohorts, the graduation rate (150% of normal time) ranged from 33% to 43% for all students in three-year bachelor level programmes with an average of 38%. This suggests that on average, fewer than 2 in 5 students completed within five years.

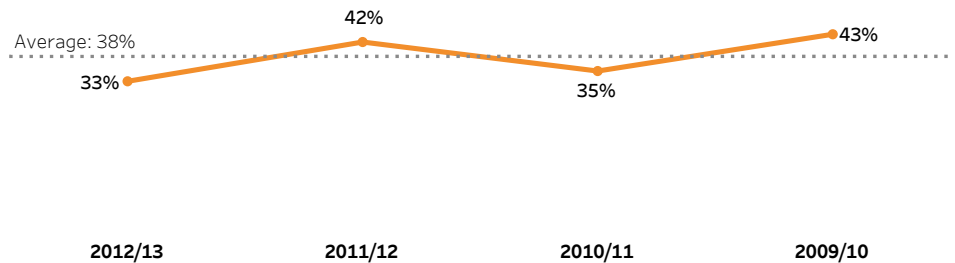
Rates for students who enrolled on a full-time basis were higher than for those who enrolled part-time. On average, 61% of full-time students graduated after five years, compared to 21% for part-time students. It should be noted that these programmes had significantly more students enrolled part-time than full-time.

The analysis by Academic Field showed that Biosciences, Agriculture and Food Technologies had the highest graduation rate (68%), while Petroleum Engineering had the lowest (14%), based on the average for the five cohorts.

Rates for female students were higher than for males. On average, 48% of females graduated after five years compared to 35% of males.

The analysis by Age-group showed that on average, 17-24 year olds had the highest graduation rate at 44%, while rates for those in age-groups 25-34 and 35 and over were 28% for both groups.

Graduation Rates - Bachelor Level Programmes (3-year)



Graduation Rates by Enrolment Status - Bachelor Level Programmes (3-year)

	Average	2012/13	2011/12	2010/11	2009/10
Full-time	61%	54%	66%	61%	64%
Part-time	21%	16%	25%	16%	27%

Graduation Rates by Academic Field - Bachelor Level Programmes (3-year)

	Average	2012/13	2011/12	2010/11	2009/10
Biosciences, Agriculture and Food Technologies	68%	79%	67%	62%	
Sports and Leisure Studies	67%	60%	72%	62%	74%
Health Sciences and Biomedical Engineering	47%	20%	62%	53%	33%
Process Engineering	38%	33%	52%	41%	28%
Utilities Engineering	37%	32%	44%	35%	35%
Civil Engineering	35%	39%	30%	29%	45%
Information and Communication Technology	26%	18%	29%	22%	39%
Design and Manufacturing Engineering	21%	15%	18%	26%	30%
Petroleum Engineering	14%	14%	28%	10%	3%

Graduation Rates by Gender- Bachelor Level Programmes (3-year)

	Average	2012/13	2011/12	2010/11	2009/10
Female	48%	37%	56%	48%	51%
Male	35%	32%	37%	31%	41%

Graduation Rates by Age-group- Bachelor Level Programmes (3-year)

	Average	2012/13	2011/12	2010/11	2009/10
17-24 yrs.	44%	37%	47%	42%	47%
25-34 yrs.	28%	23%	33%	27%	31%
35 yrs. and older	28%	30%	29%	17%	48%

GRADUATION RATES

Bachelor Level Programmes (4-year)

Bachelor Level Programmes (4-year)

The analysis for four-year bachelor level programmes examined graduation rates for cohorts between 2009/10 and 2011/12. The data showed that for these cohorts, the graduation rate (150% of normal time) ranged from 76%-80% for all students in 4-year bachelor level programmes, with an average of 79%. This suggests that on average, approximately 4 in 5 students completed their programme within six years.

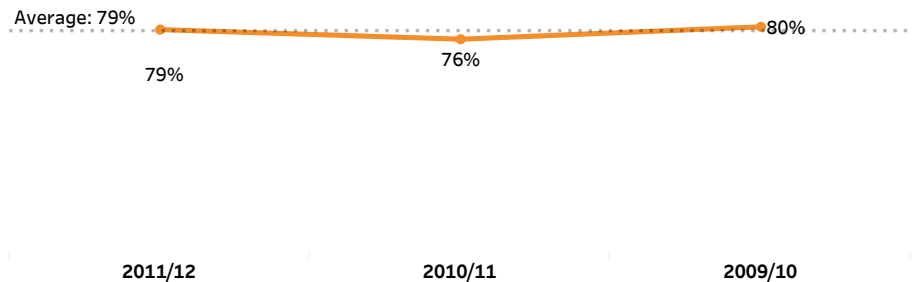
Rates for students who enrolled on a full-time basis were higher than for those who enrolled part-time. On average, 80% of full-time students graduated after five years compared to 73% for part-time students.

The analysis by Academic Field showed that Education Programmes had the highest graduation rate (80%), while Performing Arts had the lowest (60%), based on the average for the three cohorts.

Rates for female students were higher at 80% compared to 71% for males, based on the average for the three cohorts.

The analysis by Age-group showed that the graduation rates for students in the three age-groups examined, were similar at either 78% or 79% on average, over the three cohorts.

Graduation Rates - Bachelor Level Programmes (4-year)



Graduation Rates by Enrolment Status - Bachelor Level Programmes (4-year)

	Average	2011/12	2010/11	2009/10
Full-time	80%	82%	77%	83%
Part-time	73%	74%	72%	73%

Graduation Rates by Academic Field - Bachelor Level Programmes (4-year)

	Average	2011/12	2010/11	2009/10
Education Programmes	80%	81%	78%	81%
Fashion and Design	72%	71%	71%	79%
Maritime Studies	65%		64%	67%
Performing Arts	60%	56%	63%	

Graduation Rates by Gender- Bachelor Level Programmes (4-year)

	Average	2011/12	2010/11	2009/10
Female	80%	83%	77%	81%
Male	71%	66%	70%	76%

Graduation Rates by Age-group- Bachelor Level Programmes (4-year)

	Average	2011/12	2010/11	2009/10
17-24 yrs.	79%	79%	77%	81%
25-34 yrs.	78%	81%	73%	81%
35 yrs. and older	79%	78%	78%	79%

GRADUATION RATES

Master of Engineering Programmes (4-year)

Master of Engineering Programmes (4-year)

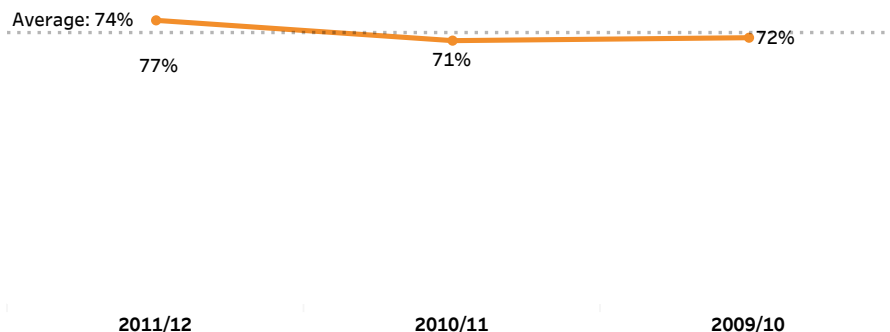
The analysis for the Master of Engineering programmes, examined graduation rates for cohorts between 2009/10 and 2011/12. The data showed that for these cohorts, the graduation rate (150% of normal time) ranged from 71%-77% for all students in these programmes, with an average of 74% over the three cohorts. This suggests that on average, approximately 3 in 4 students completed the programme within six years. It should be noted that it has been the practice of the University across several Academic Fields which offer the MEng programme, to retroactively amend students' records to reflect enrolment in the 4-year MEng programme only after they have successfully completed the 3-year BASc programme. This has the effect of inflating graduation rates for the MEng programme.

Rates for students who enrolled on a full-time basis were significantly higher than for those who enrolled part-time. On average, 97% of full-time students graduated after six years compared to 36% for part-time students.

The analysis by Academic Field showed that Petroleum Engineering had the highest graduation rate (74%), while Utilities Engineering had the lowest (42%), based on the average for the three cohorts.

The graduation rates for male and female students were the same at 73% based on the average for the three cohorts.

With respect to age-group differences, the data showed that 81% of students 17-24 years old completed the MEng programme within six years compared to 29% for those who were 25-34 years old. For the three cohorts examined, no students were above the age of 34 on entry.

Graduation Rates - Master of Engineering Programmes**Graduation Rates by Enrolment Status - Master of Engineering Programmes**

	Average	2011/12	2010/11	2009/10
Full-time	97%	100%	100%	95%
Part-time	36%	0%	43%	40%

Graduation Rates by Academic Field - Master of Engineering Programmes

	Average	2011/12	2010/11	2009/10
Petroleum Engineering	74%	78%	88%	68%
Process Engineering	71%	0%	40%	91%
Utilities Engineering	42%	100%	100%	13%

Graduation Rates by Gender - Master of Engineering Programmes

	Average	2011/12	2010/11	2009/10
Female	73%	71%	57%	81%
Male	73%	83%	86%	65%

Graduation Rates by Age-group - Master of Engineering Programmes

	Average	2011/12	2010/11	2009/10
17-24 yrs.	81%	100%	75%	78%
25-34 yrs.	29%	0%	50%	50%

GRADUATION RATES

Taught Master's Degrees

Taught Master's Degrees

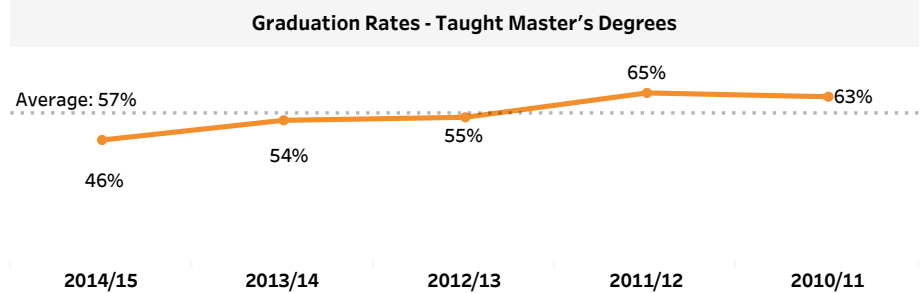
The analysis for taught master's degrees examined graduation rates for cohorts from 2010/11 to 2014/15. The data showed that for these cohorts the graduation rate (150% of normal time) ranged from 46% to 65% with an average of 57%. This suggests that approximately 3 in 5 students from these cohorts completed their programme within three years.

Rates for students who enrolled on a full-time basis were higher than for those who enrolled part-time. On average, 70% of full-time students graduated within three years compared to 40% for part-time students.

The analysis by Academic Field showed that Arts, Letters and Public Affairs had the highest graduation rate (92%), while Sports and Leisure Studies had the lowest (8%), based on the average for the five cohorts.

The analysis showed that 59% of females students in master's degree programmes graduated within 3 years, compared to 53% of male students, based on the average over the past five cohorts.

Graduation rates for students between the ages of 17-24 were highest at 65%, while those 35 years or older had the lowest graduation rate at 49% based on the average for the five cohorts.



Graduation Rates by Enrolment Status - Taught Master's Degrees						
	Average	2014/15	2013/14	2012/13	2011/12	2010/11
Full-time	70%	54%	88%	73%	73%	72%
Part-time	40%	40%	39%	27%	46%	49%

Graduation Rates by Academic Field - Taught Master's Degrees						
	Average	2014/15	2013/14	2012/13	2011/12	2010/11
Arts, Letters and Public Affairs	92%	94%	90%	90%	93%	
Design and Manufacturing Engineering	87%				81%	91%
Marine Sciences and Environmental Studies	86%	86%	74%	86%	96%	91%
Petroleum Engineering	85%	80%	92%	91%	92%	70%
Health Sciences and Biomedical Engineering	51%	27%	58%	50%	65%	50%
Maritime Studies	31%	41%	33%		15%	31%
Information and Communication Technology	18%	4%	14%	11%	40%	75%
Education Programmes	10%	10%				
Sports and Leisure Studies	8%	0%		20%	7%	8%

Graduation Rates by Gender - Taught Master's Degrees						
	Average	2014/15	2013/14	2012/13	2011/12	2010/11
Female	59%	41%	63%	62%	71%	68%
Male	53%	53%	44%	49%	59%	57%

Graduation Rates by Age-group - Taught Master's Degrees						
	Average	2014/15	2013/14	2012/13	2011/12	2010/11
17-24 yrs.	65%	48%	67%	60%	60%	92%
25-34 yrs.	57%	47%	54%	53%	72%	67%
35 yrs. and older	49%	45%	49%	54%	58%	33%

SUMMARY & CONCLUSION

This report examined persistence and graduation data for entering cohorts since 2009/10 across the various UTT programmes. With respect to persistence, the analysis focused on first year persistence - the extent to which students enrolled in a programme for the first time, chose to re-enrol in the following year. With respect to graduation rates, the report focused on the proportion of the various entering cohorts that graduated within 150% of normal time. This percentage was the equivalent of two years for certificate programmes, three years for diploma and master's degree programmes, and five or six years for bachelor's degree programmes with a duration of three or four years respectively. Each programme level was analysed separately to present a comprehensive view of throughput across UTT's various programmes.

Persistence

The analysis found that generally, about 20% of students did not persist to the second year in 2016/17 after entering for the first time in 2015/16. Further, it found that this rate remained relatively constant with respect to each of the past five entering cohorts of new students. Trends in the data showed that persistence rates were lowest for postgraduate research degrees and highest for undergraduate degrees at approximately 62% and 85% respectively, on average over the past 5 cohorts. The analysis found that Arts, Letters and Public Affairs and Environmental Studies had first year persistence rates at 90% or higher on average, over the past five years. However, Bridging Programmes, and those in Crime, Justice and Public Safety had rates at 70% or lower over the same period. Also, the analysis found that persistence rate for males (77%), and those enrolled part-time (76%) were notably lower than comparable groups, on average over the five cohorts (2011/12 - 2015/16).

These student groups (postgraduate research, male, part-time) may benefit from additional support systems to improve their persistence. Further, previous persistence reports have highlighted the case for the implementation of a comprehensive Early Warning System (EWS) which would pay closer attention to indicators linked to persistence. Additionally, UTT has set a target for a first year persistence rate of 85% by 2020 and would require incremental improvement over the next three years to achieve this since the current rate stands at 79% for the cohort that entered in 2015/16.

Graduation

Certificate Programmes

The analysis found that the graduation rate for certificate programmes with respect to the most recent eligible cohort (2015/16) was 62%. With respect to the past 5 cohorts, the average was 58%. However, cohorts entering in 2012/13 and 2013/14 had notably lower graduation rates than other cohorts over the five year period at approximately 52%. On average, part-time students (51%), males (57%) and students 35 years and older (52%) all showed lower graduation rates than comparable groups. Further, the data showed that for certificate programmes, Sports and Leisure Studies (80%) was the academic field with the highest graduation rate, while Biosciences, Agriculture, and Food Technologies (33%) had the lowest rate, based on the average for the five cohorts.

Diploma Programmes

The graduation rate for diploma programmes was 41% for the 2014/2015 cohort. With respect to the past 5 cohorts, the average was 40% and about the same for each cohort over the past 5 cohorts. On average, part-time students (31%), males (37%) and students 35 years and older (33%) all showed lower graduation rates than comparable groups. Further, the data showed that for diploma programmes, Biosciences, Agriculture, and Food Technologies (59%) was the academic field with the highest graduation rate, while Information and Communication Technology (27%) had the lowest rate, based on the average for the five cohorts.



SUMMARY & CONCLUSION

Three-year bachelor level programmes

The graduation rate for UTT's three-year bachelor level programmes was 33% for the 2012/13 cohort and an average rate of 38% for the past four cohorts. However, the most recent 2012/13 (33%) was notably lower than those in the previous three cohorts. On average, part-time students (21%), males (35%) and students 35 years and older (28%) all showed lower graduation rates than comparable groups. Further, the data showed that for three-year bachelor level programmes, Biosciences, Agriculture, and Food Technologies (68%) was the academic field with the highest graduation rate, while Petroleum Engineering (14%) had the lowest rate, based on the average for the four cohorts.

Four-year bachelor level programmes

Four-year bachelor level programmes had a graduation rate of 79% for the 2011/12 cohort and the same average for the past three cohorts. Part-time students (73%) and male students (71%) all showed lower graduation rates than comparable groups. Further, the data showed that for four-year bachelor level programmes Education programmes (80%) was the academic field with the highest graduation rate, while Performing Arts (60%) had the lowest rate, based on the average for the four cohorts.

Master of Engineering programmes

The graduation rate for the Master of Engineering programmes was 77% with respect to the 2011/12 cohort and increased from 72% and 71% for the previous two cohorts 2010/11 and 2009/10 respectively. The average for the past three cohorts was 74%. Part-time students (36%) showed significantly lower graduation rates than those who enrolled full-time (97%) over the three cohorts analysed. Further, the data showed that for these programmes, Petroleum Engineering (74%) was the academic field with the highest graduation rate, while Utilities Engineering (42%) had the lowest rate, based on the average for the three cohorts. The report noted that it has been the practice of the University across several academic fields which offer the MEng programme, to retroactively amend students' records to reflect enrolment in the 4-year MEng programme only after they had successfully completed the 3-year BAsC programme. This had the effect of inflating graduation rates for the 4-year programmes and the practice may need to be reviewed.

Master's Degree Programmes

The graduation rate for taught master's degree programmes was 46% for the 2014/15 cohort and 57% on average for the past 5 cohorts. Rates for this programme level have steadily declined year-on-year from a high of 65% for the 2011/12 cohort. On average, part-time students (40%), males (53%) and students 35 years and older (49%) all showed lower graduation rates than comparable groups over the five cohorts analysed. Further, the data showed that for these programmes, Arts, Letters and Public Affairs had the highest graduation rate (92%), while Sports and Leisure Studies had the lowest rate (8%), based on the average for the five cohorts.

Consistently through the various programme levels with respect to graduation rate, the report found that males, older students and those who enrolled part-time had significantly lower rates than comparable groups within their cohort. Gender differences point to a continuing trend of male academic underachievement and may require some attention by the university. The 150% graduation rate is used to account for part-time students and the expectation that over the duration of a programme some students may fall behind and need additional time to catch up. However, for some programme levels (3-year bachelors, MEng, Masters) the gap between full-time and part-time students is significant. This highlights the need for additional support systems and other appropriate interventions to improve throughput among this group. It is consistent with recent IR reports which also highlighted major concerns with respect to support services for part-time students. It is hoped that the Persistence and Graduation Report 2017 together with other Institutional Research will be used to support planning and improvement efforts across the University.



APPENDIX

FIRST YEAR PERSISTENCE RATES AND GRADUATION RATES TABLES FOR ALL PROGRAMMES

First Year Persistence Rate for all Programme- Academic Years 2011/12 – 2015/16						
Programme Level	Programme	Intake Year				
		2011/12	2012/13	2013/14	2014/15	2015/16
Certificate	Certificate in Applied Engineering	62%	78%	69%	73%	69%
	Certificate in Aviation Technology				92%	91%
	Certificate in Early Childhood Care and Education	75%	81%	93%	90%	94%
	Certificate in Food Technology			100%	54%	61%
	Certificate in Indian Classical Music (Sangeet Prathama)		65%		83%	54%
	Certificate in Music Technology	76%	50%	48%	79%	79%
	Certificate in Process Operations	81%	82%	80%	79%	84%
	Certificate in Security and Public Safety		69%	70%	67%	78%
	Certificate in Sport Studies	92%	71%	92%	88%	88%
	Certificate in Steel Pan and Music Literacy					100%
	Pre University Programme					
	Professional Certificate in ICT for Teachers		100%	43%	50%	67%
	Professional Officer of the Watch Certificate					0%
Diploma	Artist Diploma in Music Performance	67%	78%	96%	67%	80%
	Diploma in Agricultural Engineering		58%	78%	75%	80%
	Diploma in Agriculture	82%	66%	87%	90%	88%
	Diploma in Animal Health and Veterinary Public Health					
	Diploma in Animal Health, Production and Veterinary Public Health	81%	89%	72%	88%	83%
	Diploma in Animation Studies	96%	88%	88%	64%	83%
	Diploma in Computer, Network and Telecommunication Engineering		65%	76%	57%	60%
	Diploma in Electrical/Electronic Engineering	0%				
	Diploma in Fashion Design	76%	63%	78%	68%	88%
	Diploma in Fashion Management	89%	88%	80%	100%	100%
	Diploma in Food Technology		100%	92%	80%	79%
	Diploma in Forestry	92%	89%	57%	80%	100%
	Diploma in Maritime Operations	68%	69%	86%	84%	81%
	Diploma in Mechanical Engineering Technology					
	Diploma in Ornamental Horticulture					
	Diploma in Security and Public Safety	100%	44%	64%	74%	77%
	Diploma in Software Engineering		69%	70%	67%	63%
	Diploma in Visual Communications Design	64%	77%		89%	78%
	National Engineering Technician Diploma in Chemical Engineering	79%	76%	82%	88%	74%
	National Engineering Technician Diploma in Civil Engineering	86%	69%	75%	74%	73%
	National Engineering Technician Diploma in Communications Engineering	0%				
	National Engineering Technician Diploma in Computer Engineering	76%				
	National Engineering Technician Diploma in Electrical/Electronic Engineering	77%	82%	83%	72%	68%
	National Engineering Technician Diploma in Instrumentation Engineering	50%	85%	78%	86%	72%
	National Engineering Technician Diploma in Mechanical Engineering	81%	83%	84%	82%	75%
	National Engineering Technician Diploma in Petroleum Engineering	66%	70%	83%	73%	77%

First Year Persistence Rate for all Programme- Academic Years 2011/12 – 2015/16						
Programme Level	Programme	Intake Year				
		2011/12	2012/13	2013/14	2014/15	2015/16
Undergraduate degree	Bachelor in Sport Studies	78%	71%	81%	85%	95%
	Bachelor of Applied Science in Biomedical Engineering	85%	53%	40%	58%	77%
	Bachelor of Applied Science in Civil Engineering Systems	82%	77%	84%	81%	77%
	Bachelor of Applied Science in Coast and Ocean Sciences			75%	100%	94%
	Bachelor of Applied Science in Computer Engineering	82%	74%	74%	70%	65%
	Bachelor of Applied Science in Manufacturing and Design Engineering	74%	79%	72%	78%	81%
	Bachelor of Applied Science in Petroleum Engineering	69%	86%	91%	81%	88%
	Bachelor of Applied Science in Process Engineering	82%	78%	87%	86%	91%
	Bachelor of Applied Science in Utilities Engineering	77%	86%	86%	92%	84%
	Bachelor of Education	89%	85%	86%	84%	86%
	Bachelor of Fine Arts in Fashion Design	71%	79%	86%	95%	85%
	Bachelor of Fine Arts in the Performing Arts	80%	89%	89%	86%	76%
	Bachelor of Science in Aircraft Maintenance and Management					83%
	Bachelor of Science in Animal Science and Technology	100%	90%	100%	70%	86%
	Bachelor of Science in Criminology				75%	95%
	Bachelor of Science in Crop Science and Technology	71%	100%	75%	67%	83%
	Bachelor of Science in Food Science and Technology	100%	100%	100%	86%	81%
	Bachelor of Science in Nautical Science/Maritime Operations		85%	75%	100%	100%
	Master of Engineering in Petroleum Engineering	100%	100%	100%	100%	
	Master of Engineering in Process Engineering	100%	83%	100%		
	Master of Engineering in Utilities Engineering	100%		100%		
Master's degree	Executive Masters in Sport Management		90%		86%	89%
	International Masters in Sport for Development	79%				
	Master of Arts in Carnival Studies	100%	90%	90%	100%	100%
	Master of Education in Educational Technology				75%	90%
	Master of Science in Environmental Science and Management	96%	93%	94%	90%	100%
	Master of Science in Industrial Innovation, Entrepreneurship and Management	100%				
	Master of Science in Information and Communication Technology	100%	78%	64%	91%	69%
	Master of Science in Innovation, Manufacturing Management and Engineering					83%
	Master of Science in Integrated Coastal and Ocean Management			80%	87%	88%
	Master of Science in Operational Maritime Management	23%		47%	59%	79%
	Master of Science in Petroleum Engineering	92%	91%	92%	80%	100%
	Master of Science in Reservoir Engineering					56%
	Masters in Health Administration	88%	50%	89%	67%	83%
Postgraduate research degree	Doctor of Philosophy	50%	88%	50%	88%	63%
	Master of Philosophy	67%	25%	89%	29%	64%
Overall First Year Persistence Rate by Academic Year		80%	79%	80%	79%	79%

Graduation Rates for Programmes at the Certificate Level for Academic Years 2011/12 – 2015/16																
Programme Level	Programme	Intake Year														
		2011/12			2012/13			2013/14			2014/15			2015/16		
		100% of normal time	150% of normal time	> 150% of normal time	100% of normal time	150% of normal time	> 150% of normal time	100% of normal time	150% of normal time	> 150% of normal time	100% of normal time	150% of normal time	> 150% of normal time	100% of normal time	150% of normal time	> 150% of normal time
Certificate	Certificate in Applied Engineering	47%	55%	55%	20%	44%	53%	26%	42%	51%	18%	52%	56%	34%	53%	53%
	Certificate in Aviation Technology										56%	80%	88%	41%	73%	73%
	Certificate in Early Childhood Care and Education	0%	55%	60%	17%	44%	60%	0%	60%	79%	0%	65%	71%	0%	77%	77%
	Certificate in Food Technology							0%	100%	100%	27%	46%	50%	13%	26%	26%
	Certificate in Indian Classical Music (Sangeet Prathama)				65%	65%	65%				78%	78%	78%	54%	54%	54%
	Certificate in Music Technology	0%	72%	76%	27%	38%	50%	39%	45%	48%	75%	79%	79%	68%	71%	71%
	Certificate in Process Operations	42%	70%	73%	47%	69%	78%	40%	64%	70%	44%	72%	74%	52%	76%	76%
	Certificate in Security and Public Safety				21%	48%	55%	24%	49%	49%	28%	53%	64%	22%	67%	67%
	Certificate in Sport Studies	73%	81%	88%	51%	60%	63%	88%	92%	92%	81%	85%	85%	78%	85%	85%
	Certificate in Steel Pan and Music Literacy													100%	100%	100%
	Professional Certificate in ICT for Teachers				0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	Professional Officer of the Watch Certificate													0%	0%	0%
Overall Graduation Rates for Certificate Level Programmes		41%	63%	65%	30%	52%	61%	31%	52%	59%	32%	62%	66%	37%	61%	61%

Graduation Rates for Programmes at the Diploma Level for Academic Years 2010/11 – 2014/15																
Programme Level	Programme	Intake Year														
		2010/11			2011/12			2012/13			2013/14			2014/15		
		100% of normal time	150% of normal time	> 150% of normal time	100% of normal time	150% of normal time	> 150% of normal time	100% of normal time	150% of normal time	> 150% of normal time	100% of normal time	150% of normal time	> 150% of normal time	100% of normal time	150% of normal time	> 150% of normal time
Diploma	Artist Diploma in Music Performance	13%	63%	75%	8%	50%	58%	0%	35%	57%	0%	70%	85%	8%	46%	46%
	Diploma in Agricultural Engineering							25%	50%	50%	78%	78%	78%	50%	75%	75%
	Diploma in Agriculture	50%	58%	63%	64%	73%	79%	28%	44%	44%	57%	65%	70%	50%	60%	60%
	Diploma in Animal Health, Production and Veterinary Public Health	58%	61%	64%	48%	67%	67%	50%	61%	61%	39%	44%	50%	44%	50%	50%
	Diploma in Animation Studies	14%	29%	38%	48%	76%	80%	33%	42%	54%	50%	63%	67%	20%	36%	36%
	Diploma in Computer, Network and Telecommunication Engineering							0%	12%	29%	9%	14%	24%	6%	13%	13%
	Diploma in Electrical/Electronic Engineering				0%	0%	0%									
	Diploma in Fashion Design	17%	40%	49%	52%	57%	71%	31%	47%	56%	33%	47%	50%	29%	50%	50%
	Diploma in Fashion Management	56%	67%	67%	78%	78%	78%	75%	75%	75%	80%	80%	80%	88%	100%	100%
	Diploma in Food Technology							0%	21%	50%	22%	53%	61%	23%	50%	50%
	Diploma in Forestry	59%	71%	71%	85%	85%	92%	67%	78%	78%	29%	43%	43%	70%	70%	70%
	Diploma in Maritime Operations	20%	27%	36%	28%	38%	47%	26%	35%	47%	34%	52%	68%	28%	50%	50%
	Diploma in Security and Public Safety	0%	33%	56%	100%	100%	100%	6%	11%	17%	41%	45%	50%	43%	51%	51%
	Diploma in Software Engineering							19%	24%	31%	5%	9%	12%	15%	28%	28%
	Diploma in Visual Communications Design	36%	36%	71%	0%	7%	29%	38%	54%	54%				28%	33%	33%
	National Engineering Technician Diploma in Chemical Engineering	13%	37%	60%	16%	36%	51%	23%	39%	50%	17%	28%	37%	32%	49%	49%
	National Engineering Technician Diploma in Civil Engineering	14%	30%	46%	27%	46%	58%	13%	31%	47%	15%	39%	45%	23%	37%	37%
	National Engineering Technician Diploma in Communications Engineering	14%	29%	29%	0%	0%	0%									
	National Engineering Technician Diploma in Computer Engineering	19%	35%	51%	16%	28%	39%									
	National Engineering Technician Diploma in Electrical/Electronic Engineering	14%	25%	46%	11%	33%	41%	24%	44%	58%	21%	37%	43%	14%	28%	28%
	National Engineering Technician Diploma in Instrumentation Engineering	22%	28%	44%	12%	23%	27%	41%	52%	67%	39%	39%	43%	38%	45%	45%
	National Engineering Technician Diploma in Mechanical Engineering	20%	34%	56%	17%	35%	54%	24%	43%	59%	30%	45%	51%	28%	49%	49%
	National Engineering Technician Diploma in Petroleum Engineering	51%	56%	59%	32%	50%	53%	38%	58%	65%	41%	54%	58%	30%	47%	47%
Overall Graduation Rates for Diploma Level Programmes		22%	37%	53%	24%	41%	52%	25%	40%	52%	25%	40%	46%	25%	41%	41%

Graduation Rates for 3 Year Bachelor's Degree Level Programmes - Academic Years 2009/10 – 2012/13													
Programme Level	Programme	Intake Year											
		2009/10			2010/11			2011/12			2012/13		
		100% of normal time	150% of normal time	> 150% of normal time	100% of normal time	150% of normal time	> 150% of normal time	100% of normal time	150% of normal time	> 150% of normal time	100% of normal time	150% of normal time	> 150% of normal time
3 Year Bachelor's degree	Bachelor in Sport Studies	53%	74%	77%	42%	62%	62%	59%	72%	72%	55%	60%	60%
	Bachelor of Applied Science in Biomedical Engineering	17%	33%	50%	40%	53%	67%	12%	62%	65%	13%	20%	20%
	Bachelor of Applied Science in Civil Engineering Systems	32%	45%	58%	17%	29%	44%	14%	30%	40%	13%	39%	39%
	Bachelor of Applied Science in Computer Engineering	14%	39%	43%	9%	22%	35%	15%	29%	29%	11%	18%	18%
	Bachelor of Applied Science in Manufacturing and Design Engineering	15%	30%	33%	9%	26%	43%	5%	18%	21%	6%	15%	15%
	Bachelor of Applied Science in Petroleum Engineering	0%	3%	8%	3%	10%	33%	0%	28%	38%	7%	14%	14%
	Bachelor of Applied Science in Process Engineering	11%	28%	51%	14%	41%	55%	26%	52%	60%	11%	33%	33%
	Bachelor of Applied Science in Utilities Engineering	20%	35%	50%	18%	35%	48%	13%	44%	49%	8%	32%	32%
	Bachelor of Science in Animal Science and Technology				57%	57%	57%	75%	75%	75%	80%	80%	80%
	Bachelor of Science in Crop Science and Technology				60%	60%	60%	57%	57%	57%	33%	83%	83%
	Bachelor of Science in Food Science and Technology				71%	71%	71%	0%	100%	100%	67%	67%	67%
Overall Graduation Rates for 3 Year Bachelor's Degree Level Programmes		25%	43%	58%	20%	35%	48%	18%	42%	47%	17%	33%	33%

Graduation Rates for 4 Year Bachelor's Degree Level Programmes - Academic Years 2009/10 – 2011/12										
Programme Level	Programme	Intake Year								
		2009/10			2010/11			2011/12		
		100% of normal time	150% of normal time	> 150% of normal time	100% of normal time	150% of normal time	> 150% of normal time	100% of normal time	150% of normal time	> 150% of normal time
4 Year Bachelor's degree	Bachelor of Education	69%	81%	82%	68%	78%	79%	71%	81%	81%
	Bachelor of Fine Arts in Fashion Design	79%	79%	79%	65%	71%	71%	65%	71%	71%
	Bachelor of Fine Arts in the Performing Arts				59%	63%	67%	44%	56%	56%
	Bachelor of Science in Nautical Science/Maritime Operations	44%	67%	67%	64%	64%	64%			
Overall Graduation Rates for 4 Year Bachelor's Degree Level Programmes		69%	80%	82%	67%	76%	78%	69%	79%	79%

Graduation Rates for 4 Year Master of Engineering Programmes - Academic Years 2009/10 – 2011/12										
Programme Level	Programme	Intake Year								
		2009/10			2010/11			2011/12		
		100% of normal time	150% of normal time	> 150% of normal time	100% of normal time	150% of normal time	> 150% of normal time	100% of normal time	150% of normal time	> 150% of normal time
4 Year MEng	Master of Engineering in Petroleum Engineering	47%	79%	89%	50%	88%	88%	56%	78%	78%
	Master of Engineering in Process Engineering	82%	91%	91%	0%	40%	100%	0%	0%	0%
	Master of Engineering in Utilities Engineering	0%	17%	100%	0%	100%	100%	0%	100%	100%
Overall Graduation Rates for 4 Year Master of Engineering Programmes		50%	72%	92%	29%	71%	93%	38%	77%	77%

Graduation Rates for Master's Degree Level Programmes - Academic Years 2010/11 – 2014/15																
Programme Level	Programme	Intake Year														
		2010/11			2011/12			2012/13			2013/14			2014/15		
		100% of normal time	150% of normal time	> 150% of normal time	100% of normal time	150% of normal time	> 150% of normal time	100% of normal time	150% of normal time	> 150% of normal time	100% of normal time	150% of normal time	> 150% of normal time	100% of normal time	150% of normal time	> 150% of normal time
Taught Master's degree	Executive Masters in Sport Management	0%	8%	50%				0%	20%	40%				0%	0%	0%
	International Masters in Sport for Development				0%	7%	29%									
	Master of Arts in Carnival Studies				93%	93%	93%	90%	90%	90%	70%	90%	90%	89%	94%	94%
	Master of Education in Educational Technology													10%	10%	10%
	Master of Science in Environmental Science and Management	86%	91%	91%	88%	96%	96%	86%	86%	86%	71%	82%	82%	75%	85%	85%
	Master of Science in Industrial Innovation, Entrepreneurship and Management	91%	91%	91%	81%	81%	81%									
	Master of Science in Information and Communication Technology	75%	75%	75%	27%	40%	47%	4%	11%	22%	0%	14%	14%	4%	4%	4%
	Master of Science in Integrated Coastal and Ocean Management										50%	60%	60%	80%	87%	87%
	Master of Science in Operational Maritime Management	15%	31%	31%	15%	15%	23%				13%	33%	33%	41%	41%	41%
	Master of Science in Petroleum Engineering	60%	70%	70%	77%	92%	92%	82%	91%	91%	67%	92%	92%	80%	80%	80%
	Masters in Health Administration	35%	50%	60%	47%	65%	65%	50%	50%	50%	37%	58%	58%	27%	27%	27%
Overall Graduation Rates for Master's Degree Level Programmes		55%	63%	70%	57%	65%	69%	50%	55%	60%	37%	54%	54%	44%	46%	46%