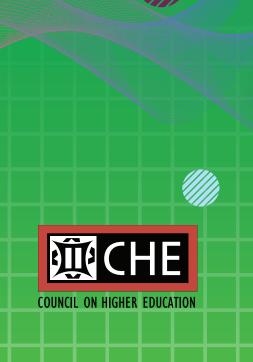
PUBLIC HIGHER EDUCATION FUNDING, POSTGRADUATE STUDENTS AND RESEARCH OUTPUT 2021

Supplement to

VitalStats 2021



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The Council on Higher Education (CHE) is an independent statutory body established by the Higher Education Act, No. 101 of 1997 (as amended). The CHE is the Quality Council for Higher Education, advises the Minister responsible for Higher Education, Science and Innovation on all higher education issues and is responsible for quality assurance and promotion through the Higher Education Quality Committee (HEQC).

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Foreword

The Higher Education Act 101 of 1997, as amended, mandates the Council on Higher Education (CHE) to, *inter alia*, monitor developments in higher education and publish the resultant data and information on a regular basis for the benefit of stakeholders and the public at large. One of the ways in which the CHE fulfils this mandate is to compile and publish data on key parameters within the higher education system from which inferences can be made about the development trajectory of the higher education system in South Africa. The publication is titled *VitalStats*, and it has been published annually since 2012. It has become an important resource material for researchers, policy makers, institutional planners, funding agencies and other stakeholders with interest on the changes that are going on within the higher education system.

Over the years, the parameters on which data and information are provided in the *VitalStats* publication have increased tremendously in response to requests and suggestions from the stakeholders. As a result, the size of the *VitalStats* publication has been increasing steadily until in 2022 a decision was made to compile and publish two complementary volumes per year. Therefore, in 2022 in addition to the ordinary *VitalStats* publication that stakeholders are customed to, a supplementary volume was also published presenting data and information on funding, research and postgraduate students. This volume titled *Public Higher Education, Postgraduate Students and Research Output 2021: Supplement to VitalStats 2021* is the second volume of a supplement to a *VitalStats* publication. It presents data and information on (i) State funding of public universities; (ii) Permanent academic staff with master's and doctoral qualifications; (iii) Master's and doctoral students first-time enrolment and completion; (iv) Analysis of cohorts of research-based postgraduate students; and (v) Research output and subsidy funding.

The CHE encourages researchers, policy makers, institutional planners, funding agencies and other stakeholders to continue taking keen interest in the two volumes of *VitalStats* published annually and making good use of their contents. They are also requested to continue providing constructive feedback which the CHE commits to utilise in its quest for continuous improvement in the compilation, analysis and presentation of the relevant sets of data and information. Feedback should be sent by email to research@che.ac.za.

The CHE expresses its sincere appreciation to the staff in the Research, Monitoring and Advice (RMA) Directorate, and to the external experts who worked tirelessly to source the relevant datasets, undertake the required analyses, and plot the graphs presented in this volume with the requisite levels of rigour and professionalism. It would also like to acknowledge the critical role played by external peers who reviewed the data and graphs, checked the accuracy of the analyses, and made constructive recommendations that assisted in improving the presentation of some of the graphs.

Copies of the *Public Higher Education, Postgraduate Students and Research Output 2021: Supplement to VitalStats 2021*, and other volumes in the *VitalStats* publication series can be accessed through the CHE website: www.che.ac.za/publications. Print copies can be requested from research@che.ac.za or can be collected in person at 1 Quintin Brand Street, Persequor Technopark, Brummeria, in Pretoria.

Dr Whitfield J Green Chief Executive Officer January 2024

Acronyms

CESM: Classification of Educational Subject Matter

Comp: Comprehensive Universities

FTE: Full-time Equivalent

Trads: Traditional Universities

UCD: University Capacity Development

UoTs: Universities of Technology

Definitions

Classification of Educational Subject Matter or CESM categories:

A set of classifications aiming to provide a single coherent system for categorising subject matter irrespective of the level of instruction or type of institution. For a list of first-order CESM categories, see Appendix 2.

Cohort:

The first-time entry students in a given year who have enrolled for a particular higher education programme.

Comprehensive Universities (Comp):

This refers to institutions that offer the full spectrum of programmes, including vocational, professional and general formative programmes at both undergraduate and postgraduate levels.

Field of study:

Enrolments are divided into four broad fields or areas of study, calculated by aggregating enrolments by CESM category as below. For a description of each CESM category, see Appendix 2:

- Science, Engineering and Technology (SET): CESM 01, 02, 06, 08, 09, 10, 13, 14, 15 and 16
- Business and Commerce (BandC): CESM 04
- Humanities (Hum): CESM 03, 05, 11, 12, 17, 18, 19 and 20
- Education (Ed): CESM 07

Full-time equivalent (FTE):

FTE student enrolments are calculated (a) by assigning to each course a fraction representing the weighting it has in the curriculum of a qualification, and (b) by multiplying the headcount enrolment of that course by this fraction. FTE staff numbers are calculated in a similar way.

Headcount:

The total number of students enrolled at each institution whether as full-time, part-time, or occasional students.

Percentage accumulative (for Cohort Study):

This indicates (in the relevant graphs) the total number of students of a particular first-time entering cohort who have graduated or dropped out up to that point. It includes all the students of that cohort who have graduated or dropped out in previous years.

Percentage non-accumulative (for Cohort Study):

This indicates (in the relevant graphs) the total number of students of a particular first-time entering cohort who have graduated or dropped out in that particular year. It does not include the students of that cohort who have graduated or dropped out in previous years.

Permanent employee:

A person is classified as a permanent staff member if he/she contributes to an approved retirement fund of the institution.

Personnel categories:

The personnel category indicates the type of duties to be undertaken in a position which a staff member occupies in the institution, and the qualifications and experience normally required by the incumbent of that position. The duties, qualifications and experience referred to relate to those of the position. The personnel categories are:

Instruction/research professional (Academic): A position in which (a) at least 50% of time is spent on instruction and/or research activities, and (b) the position requires a higher education qualification equivalent to at least 4 years of higher education study.

Executive/administrative/managerial professional (Senior Management): A position in which (a) the primary function is the management of the institution or one of its major divisions or sections, and (b) the position requires an educational attainment equivalent to at least 4 years of higher education study.

Non-professional administration (Administrative): A position in which (a) the primary function is clerical, secretarial or administrative duties, and (b) an educational attainment equivalent to 4 years of higher education study is not required.

Service staff: A group of staff for whom the primary function comprises unskilled activities.

Staff member:

A staff member is a person who is either compensated by the institution by pay or other means for services rendered, or who, while not being paid or compensated by the institution, performs services which relate to the institution's normal activities and those activities which would otherwise have been performed by staff receiving compensation from the institution.

Temporary employee:

A staff member who does not contribute to an approved retirement fund of an institution is classified as a temporary employee.

Throughput rate:

A throughput rate calculates the number of first-time entry undergraduate students of a specific cohort of a specific year who have graduated either within the minimum time, or up to 2 years beyond the minimum time, to the number of students in the baseline enrolments of that cohort. Throughput rates are reflected in the section on cohort studies.

Traditional Universities (Trad):

This refers to institutions that offer a broad range of general formative and professional programmes at both undergraduate and postgraduate levels.

University of Technology (UoT):

This refers to an institution that offers a range of programmes that are vocationally and/or professionally orientated, primarily at the undergraduate level, previously called a Technikons.

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State Funding of Public Universities

Figure 1: Funding allocated to universities in real and nominal terms for 2016/17 to 2021/22



Figure 2: Ratio: nominal to real for 2016/17 to 2021/2

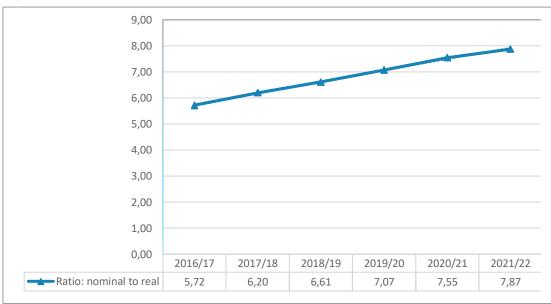




Figure 3: Funding allocated to universities as a percentage of GDP and of the state budget.



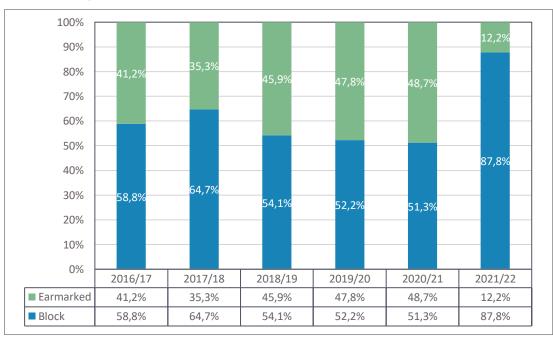


Figure 5: Block and earmarked funding (including NSFAS allocation) from 2016/17 to 2021/22

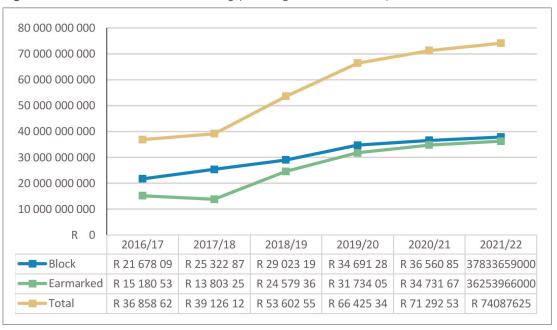
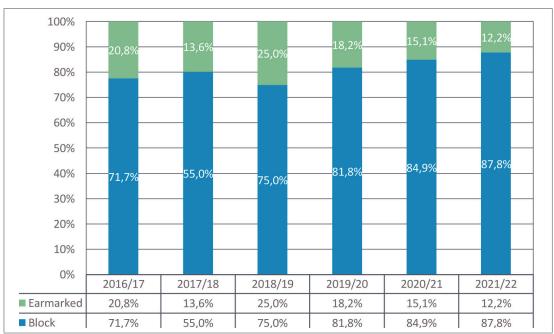


Figure 6: Proportion of block to earmarked funding (excluding NSFAS allocation) from 2016/17 to 2021/22



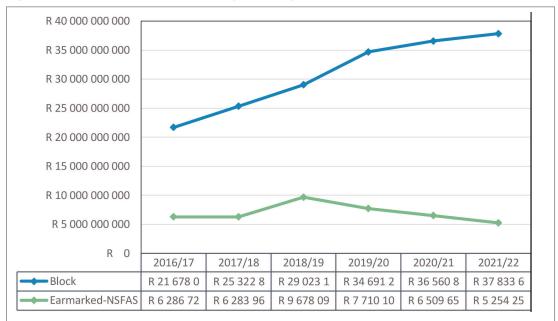
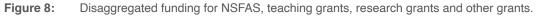


Figure 7: Block and earmarked funding (excluding NSFAS allocation) from 2016/17 to 2021/22



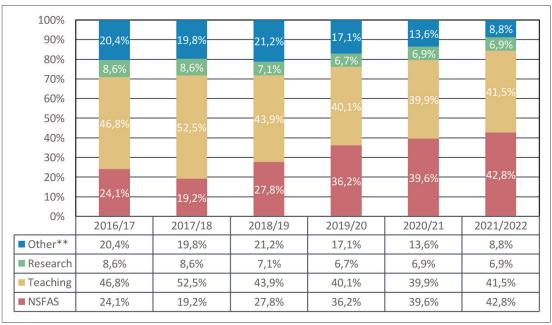


Figure 9: Funding for NSFAS, teaching grants, research grants and other grants from 2016/17 to 2020/21

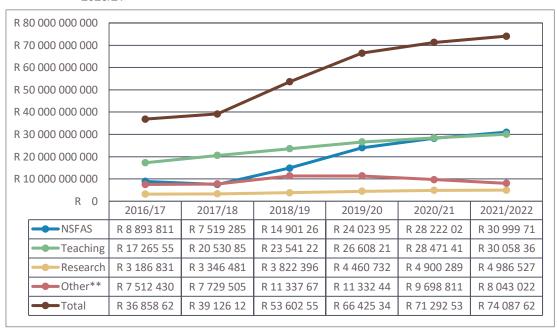
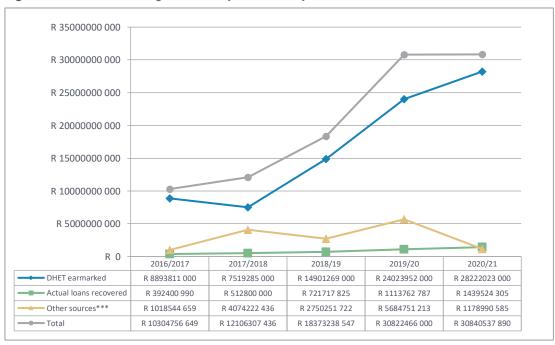
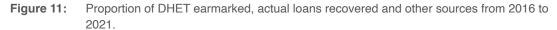


Figure 10: NSFAS funding for university students only from 2016/17 to 2020/21





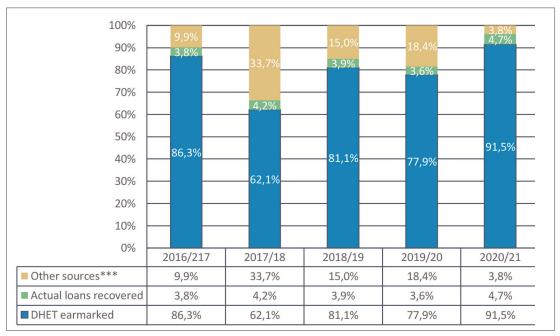


Figure 12: NSFAS student awards (in thousands) from 2016 to 2021 (academic years)



Figure 13: Headcount university students funded through NSFAS from 2016 to 2021 including Funza Lushaka Students (Education)

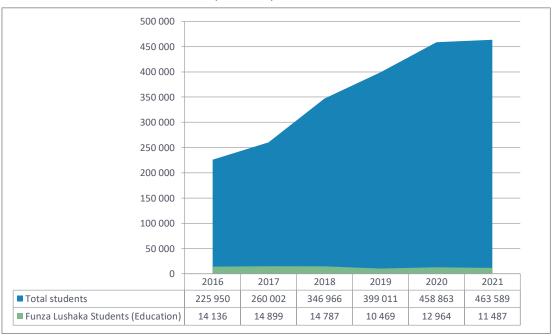
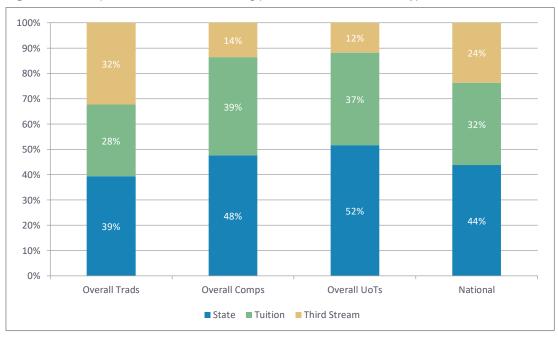


Figure 14: Proportion of institutional funding per source and institutional type 2021



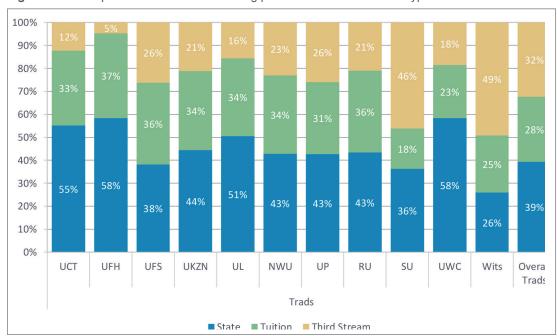


Figure 15: Proportion of institutional funding per source and institutional type 2021: Overall Trads



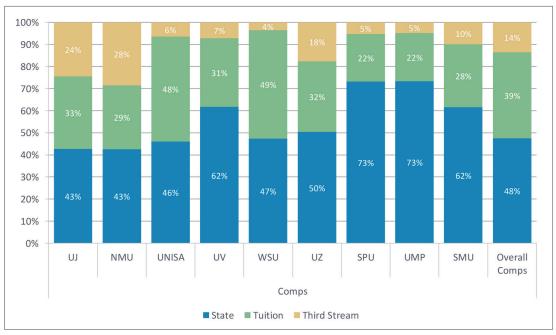


Figure 17: Proportion of Institutional funding per source and institutional type 2021 Overall UoTs

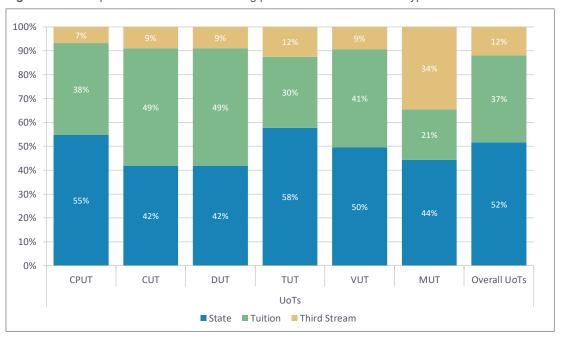


Figure 18: Proportional disaggregation of institutional funding per source from 2015/16 to 2020/21

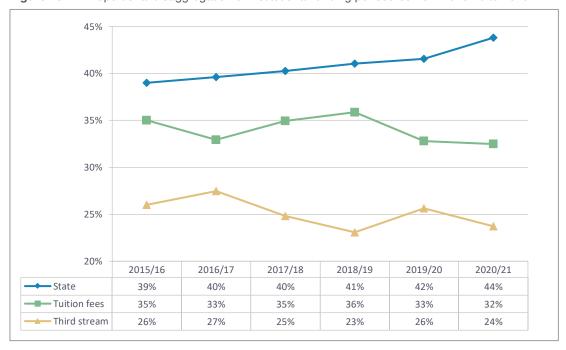


Figure 19: Developments funds.

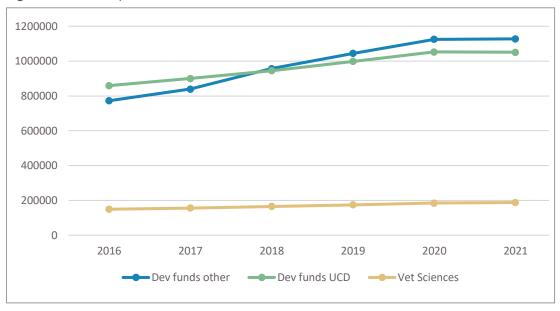


Figure 20: Teaching input grant 2015 - 2021 UoTs

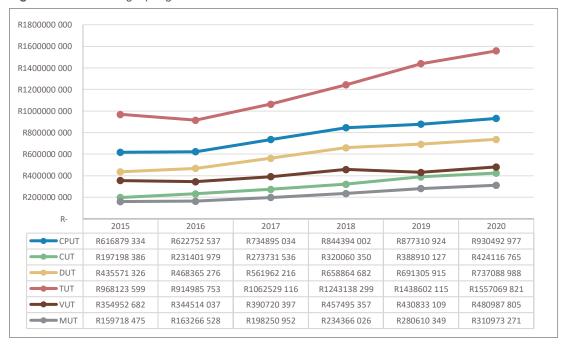


Figure 21: Teaching input grant 2016 - 2021: Trads

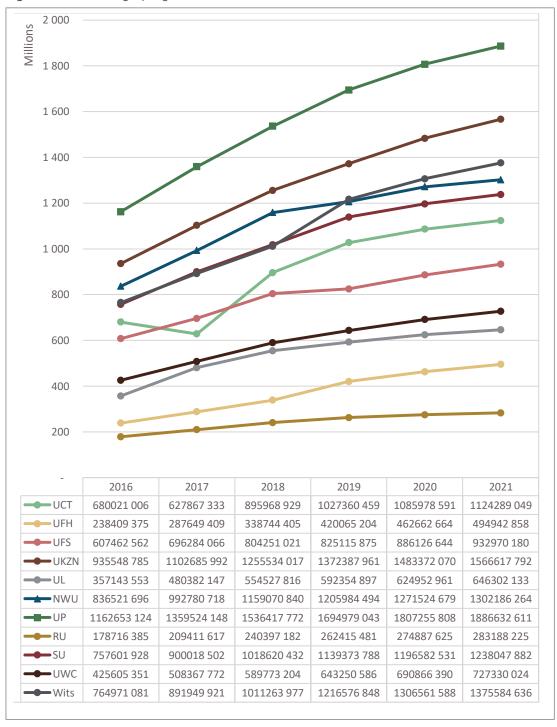


Figure 22: Teaching input grant 2016 - 2021: Comps

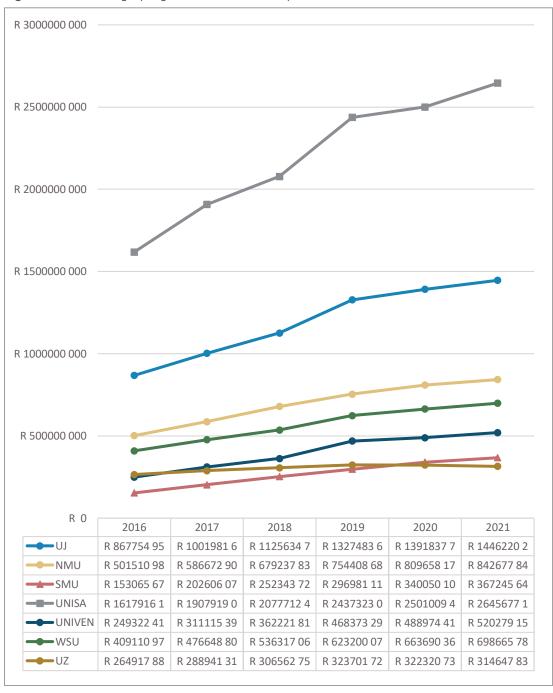


Figure 23: Teaching Input Units: Trads

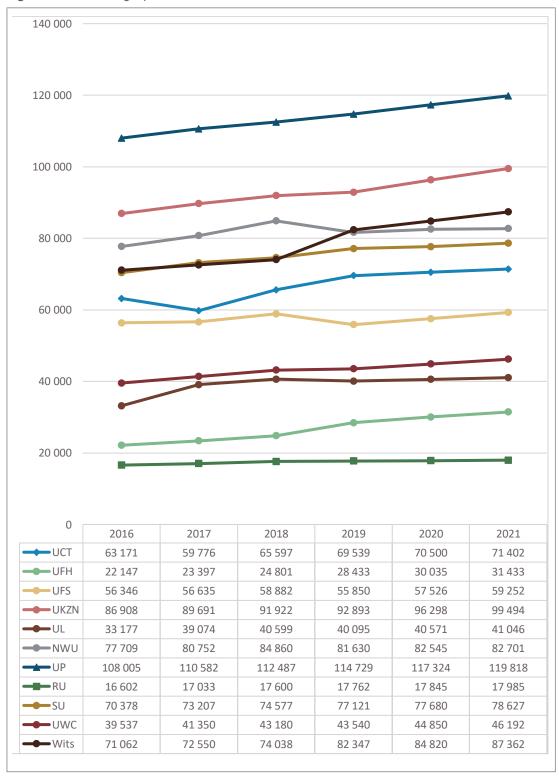


Figure 24: Teaching Input Units: UoTs

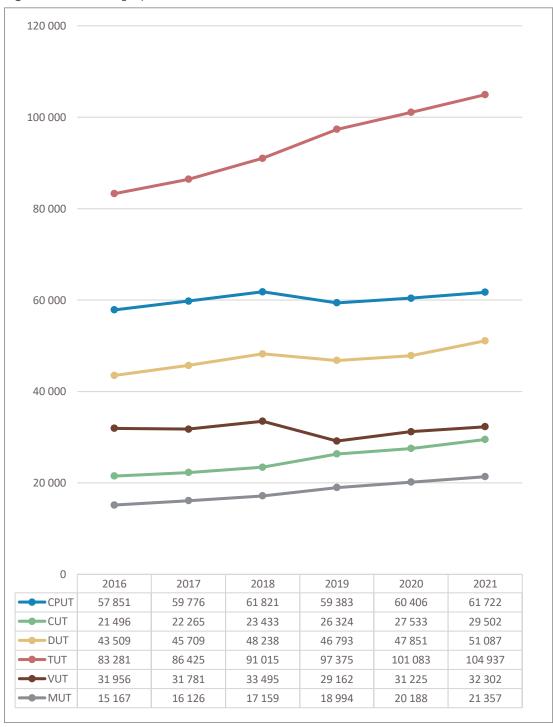


Figure 25: Teaching input units: Comps

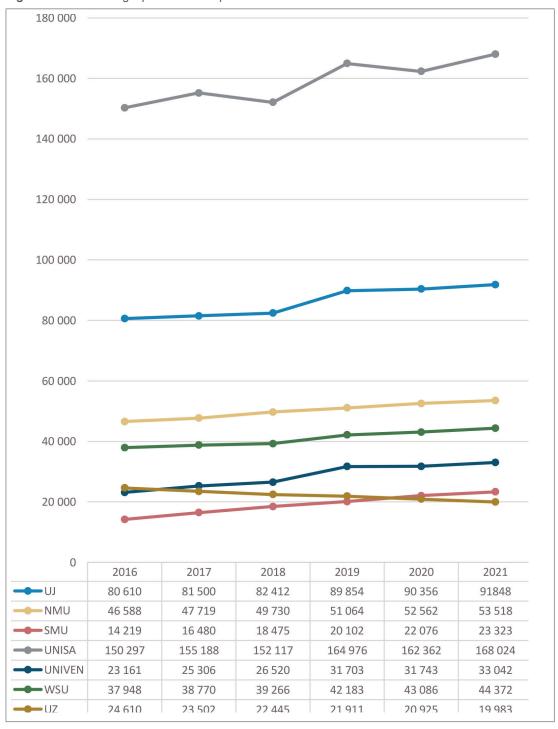


Figure 26: Teaching output units: Trads

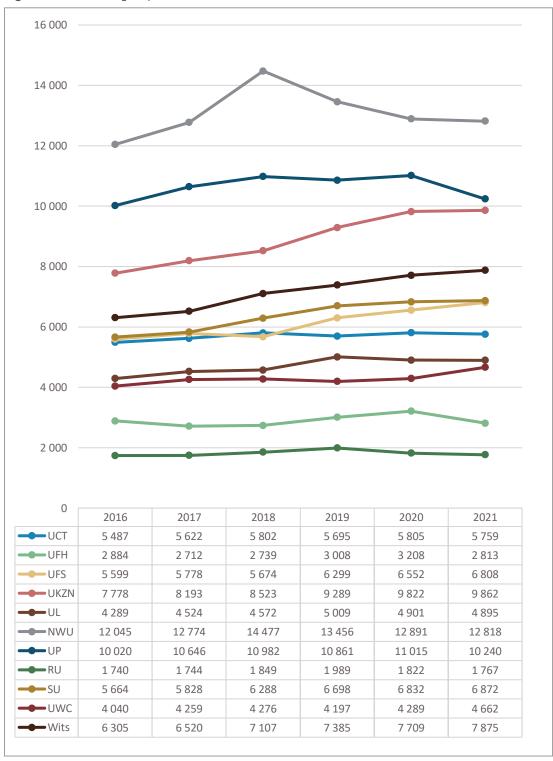


Figure 27: Teaching output units: UoTs

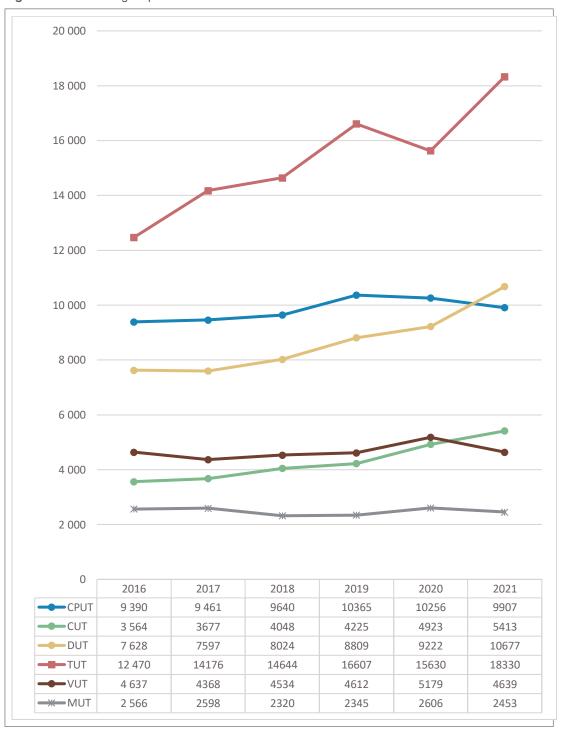


Figure 28: Teaching output grants: UoTs

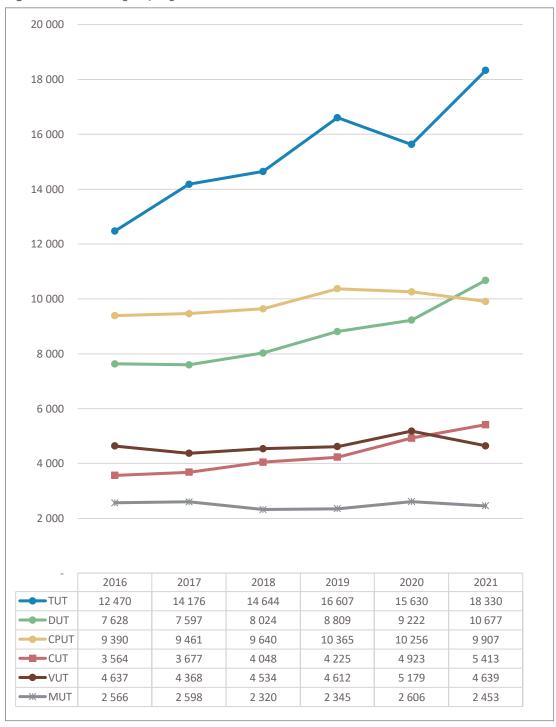


Figure 29: Teaching output units: Comps

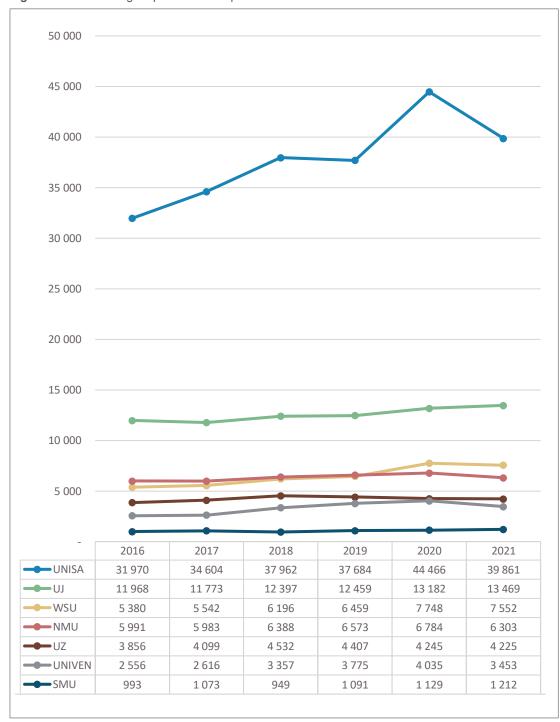
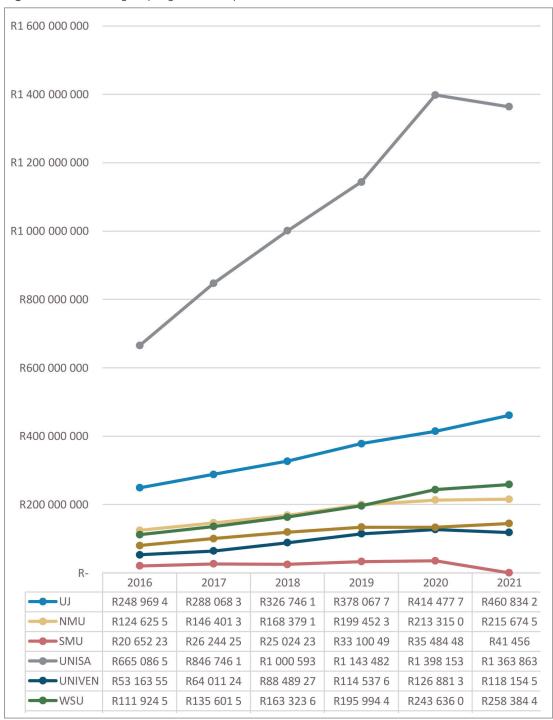
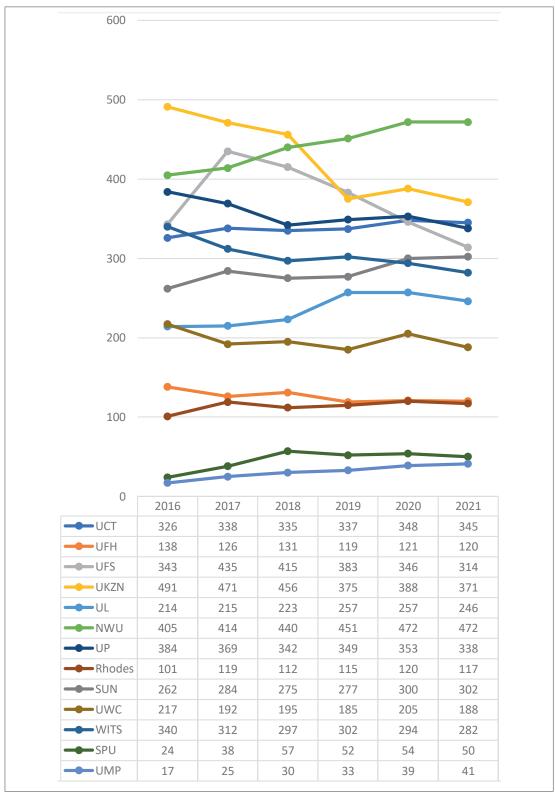


Figure 30: Teaching output grants: Comps



Permanent Academic Staff with Master's and Doctoral Qualifications

Figure 31: Headcount permanent academic staff with a Master's qualification per traditional university



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Figure 32: Headcount permanent academic staff with a Master's qualification per comprehensive university

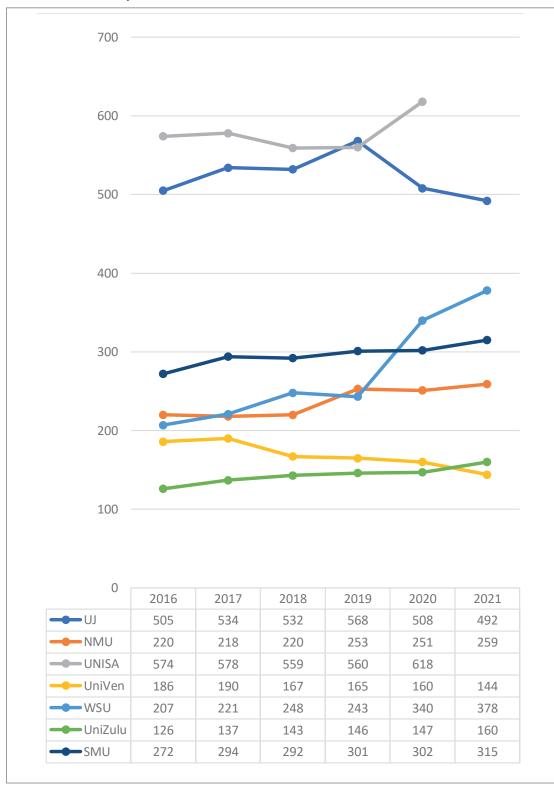


Figure 33: Headcount permanent academic staff with a Master's qualification per university of technology

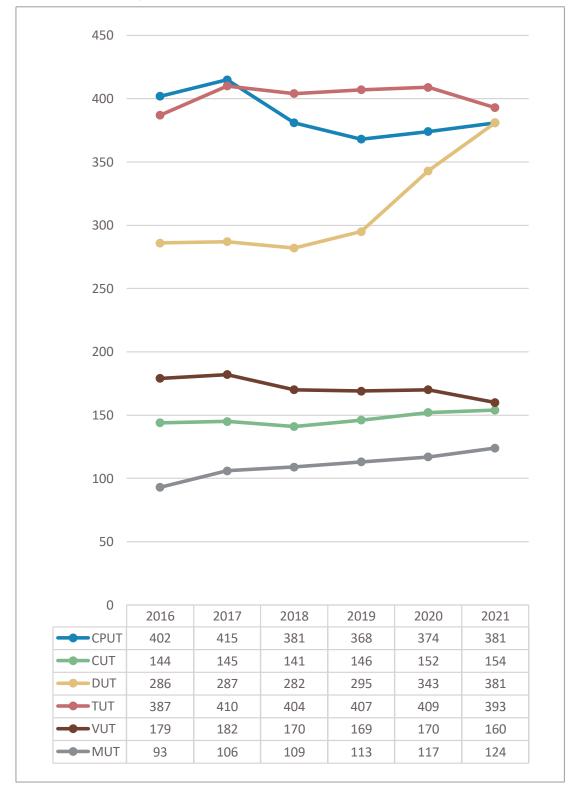


Figure 34: Headcount permanent academic staff with a Doctoral qualification per traditional university

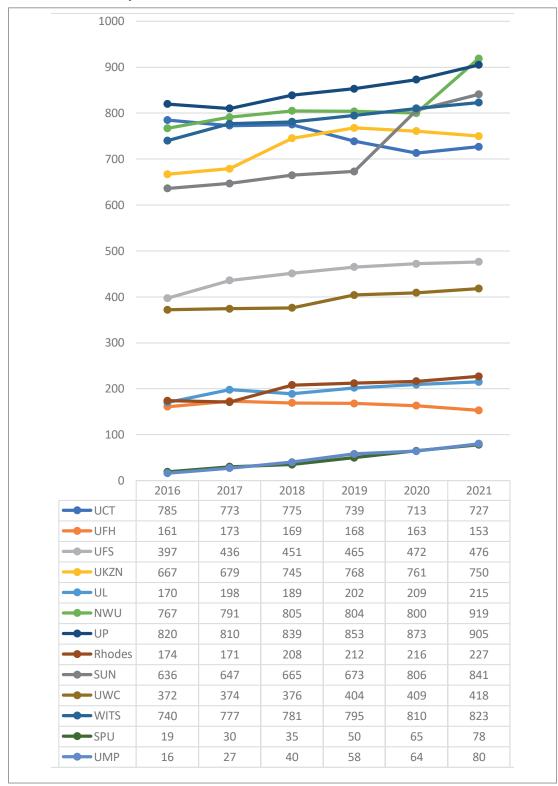


Figure 35: Headcount permanent academic staff with a Doctoral qualification per comprehensive university

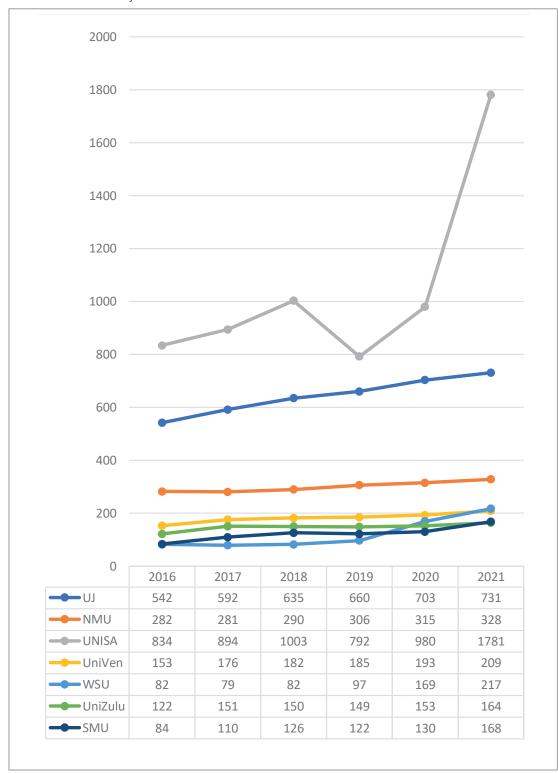


Figure 36: Headcount permanent academic staff with a Doctoral qualification per university of technology

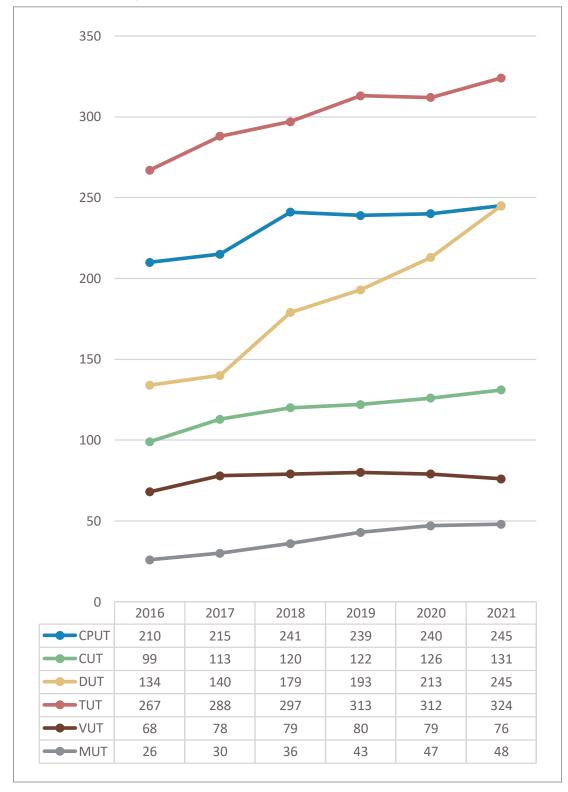


Figure 37: FTE academic staff with a Master's qualification per traditional university

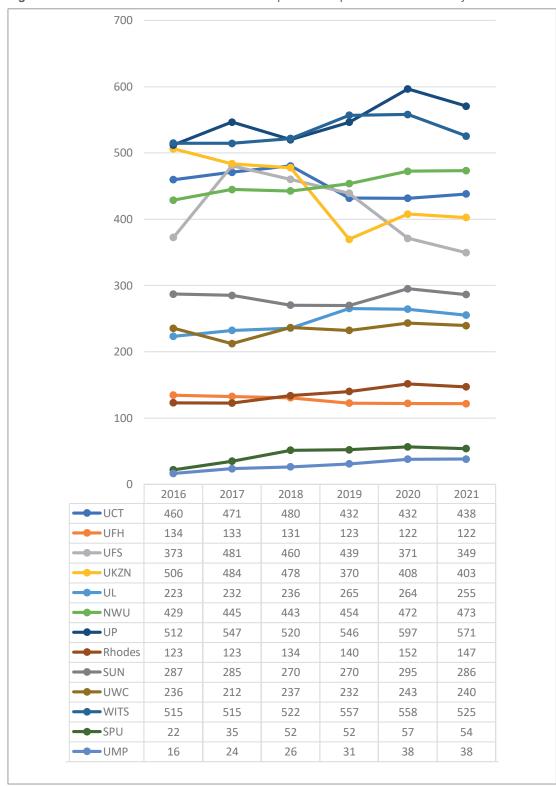


Figure 38: FTE academic staff with a Master's qualification per comprehensive university

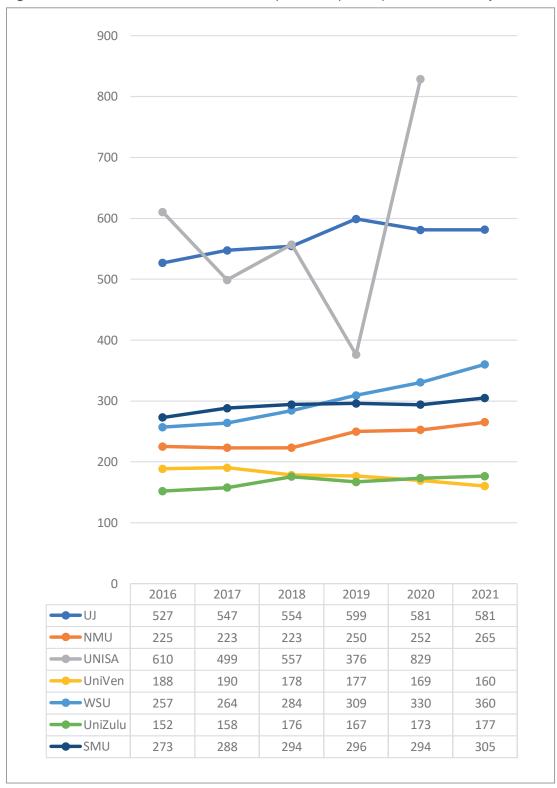


Figure 39: FTE academic staff with a Master's qualification per university of technology

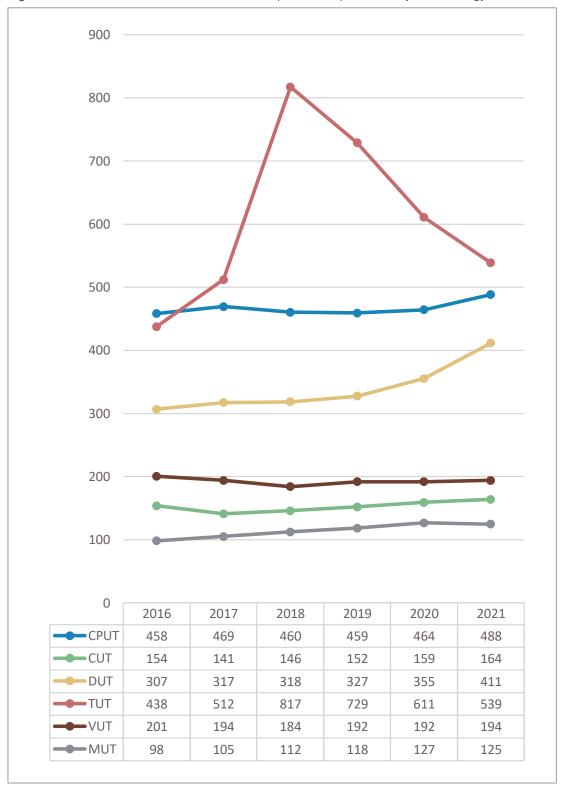


Figure 40: FTE academic staff with a Doctoral qualification per traditional university

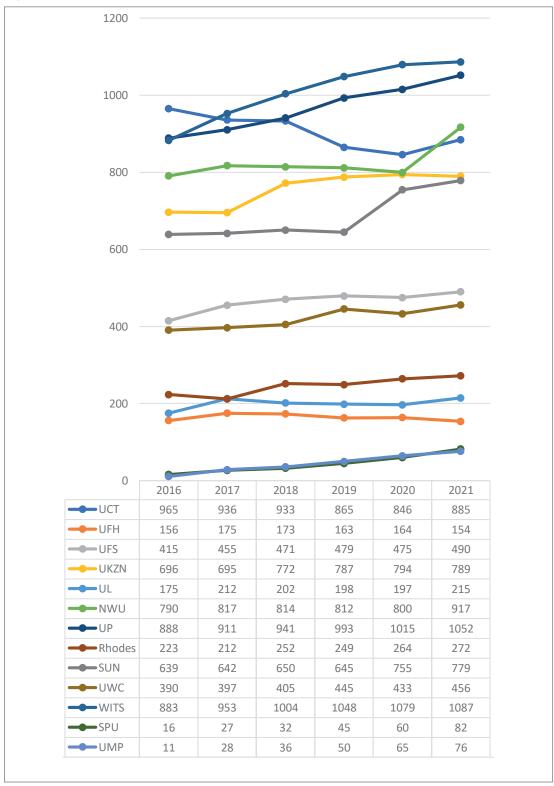
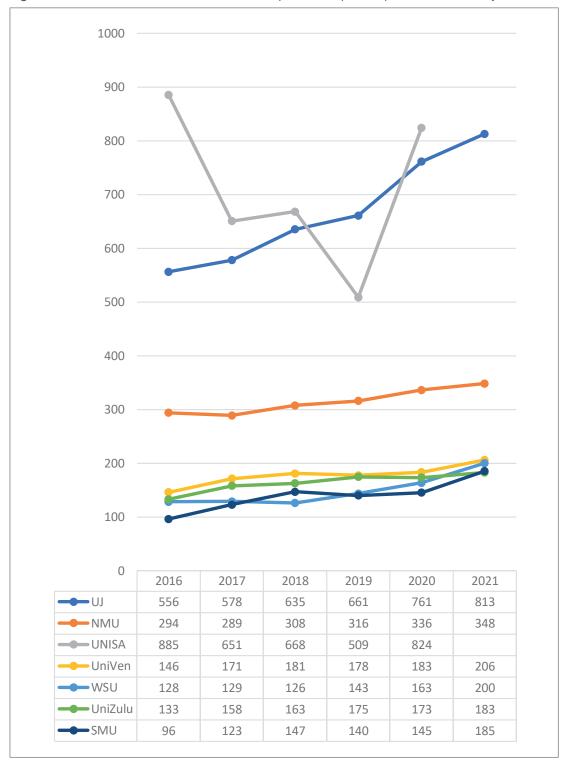
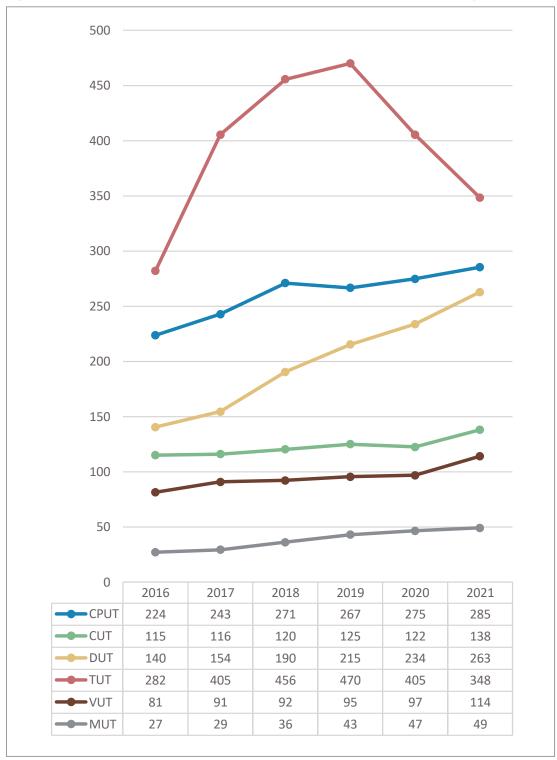


Figure 41: FTE academic staff with a Doctoral qualification per comprehensive university







Master's and Doctoral Enrolments and Graduates

Master's and Doctoral Enrolments and Graduates

Figure 43: Master's Enrolments per CESM

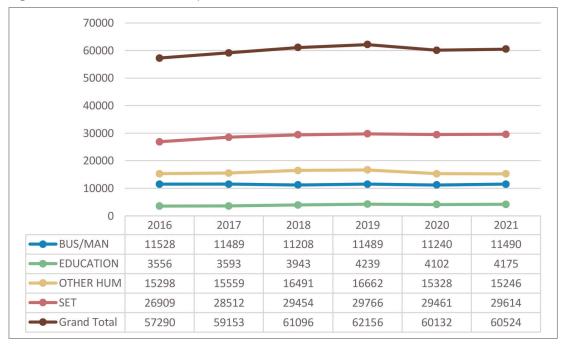
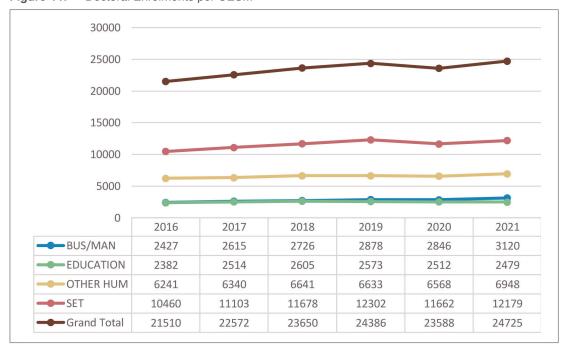


Figure 44: Doctoral Enrolments per CESM



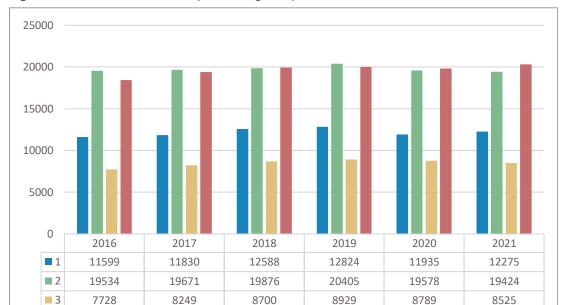


Figure 45: Master's Enrolments per Funding Group



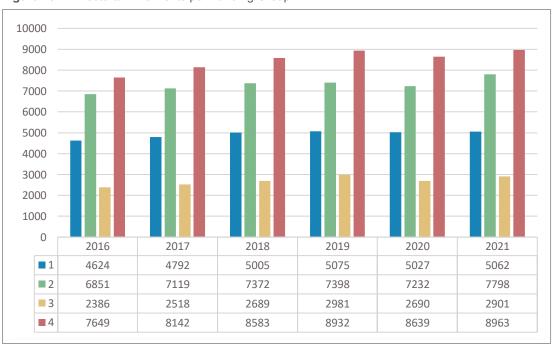


Figure 47: Master's Graduates per CESM

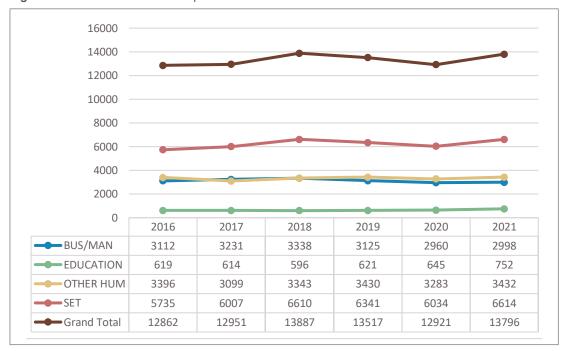


Figure 48: Doctoral Graduates per CESM

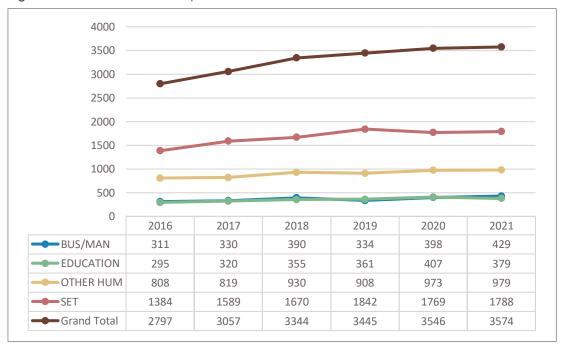


Figure 49: Master's Enrolments per Traditional University

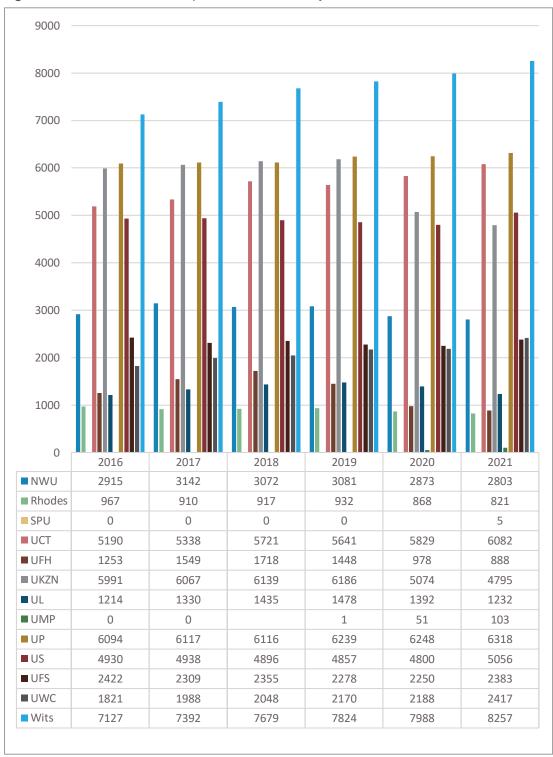
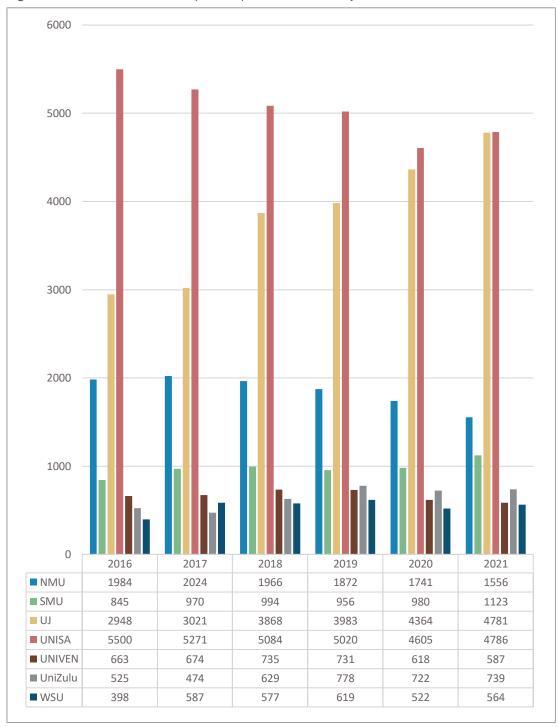


Figure 50: Master's Enrolments per Comprehensive University





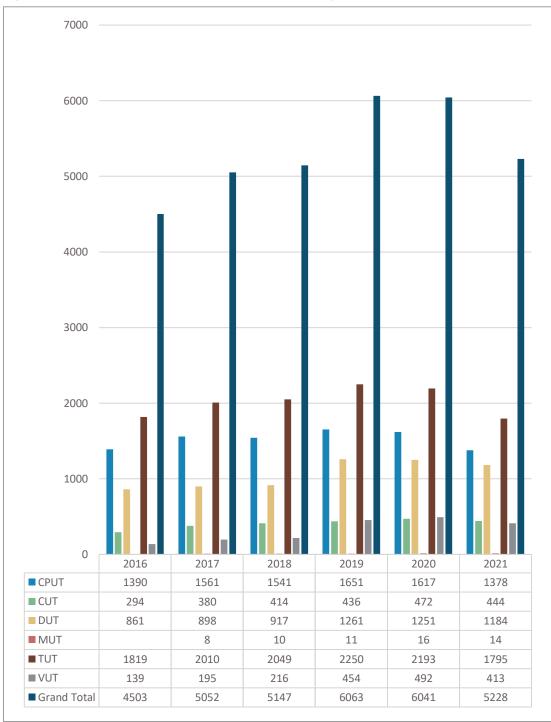
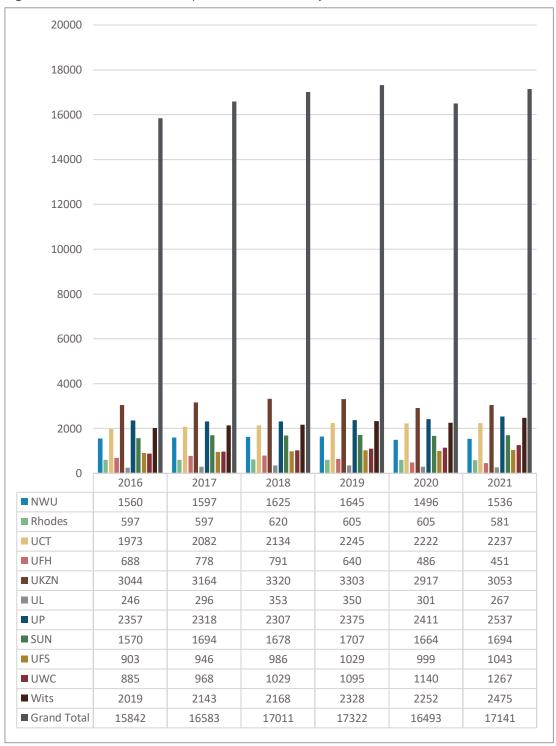


Figure 52: Doctoral Enrolments per Traditional University





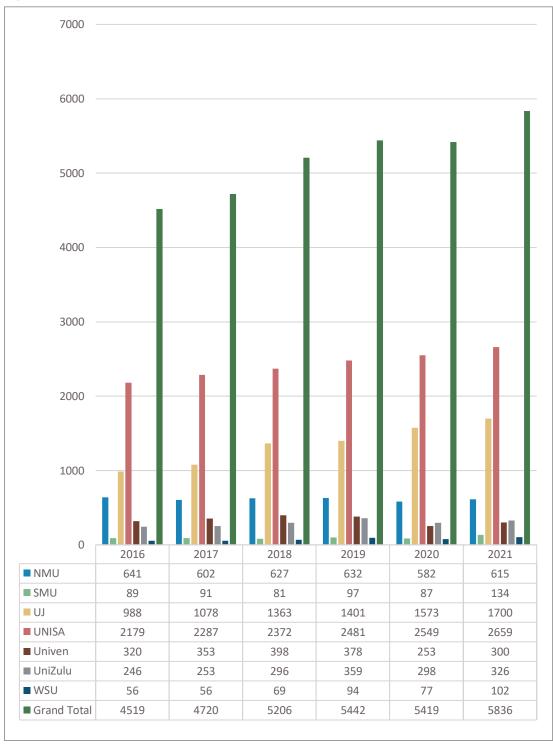


Figure 54: Doctoral Enrolments per University of Technology

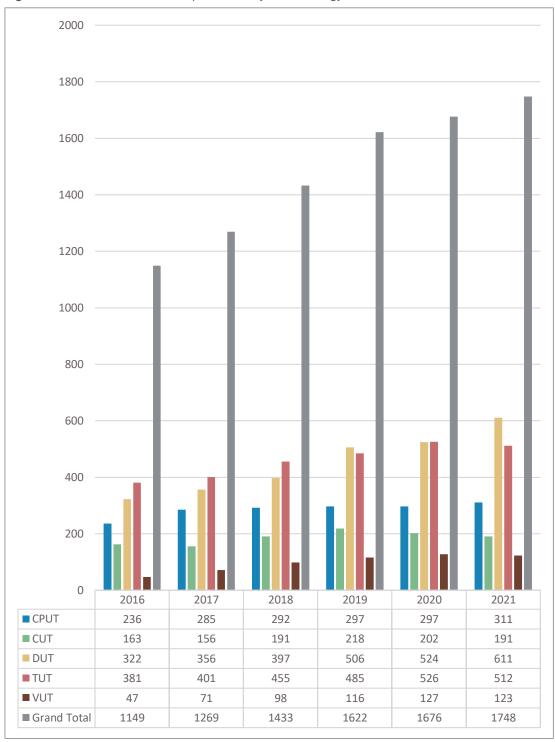


Figure 55: Master's Graduates per Traditional University

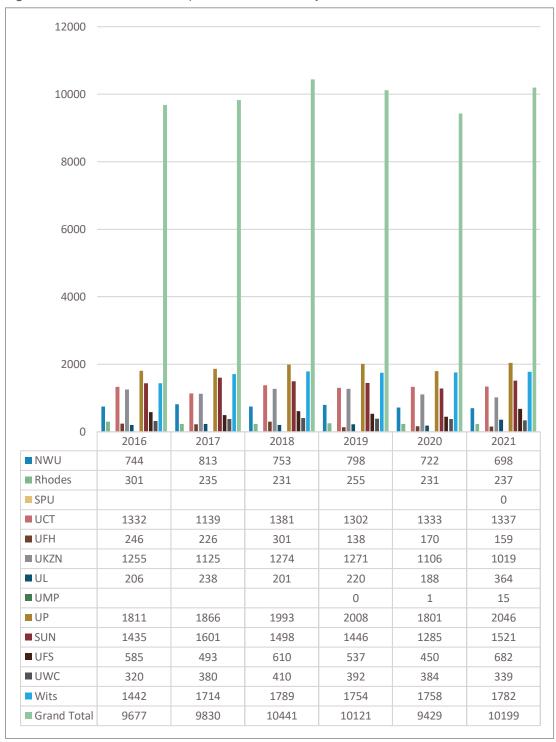
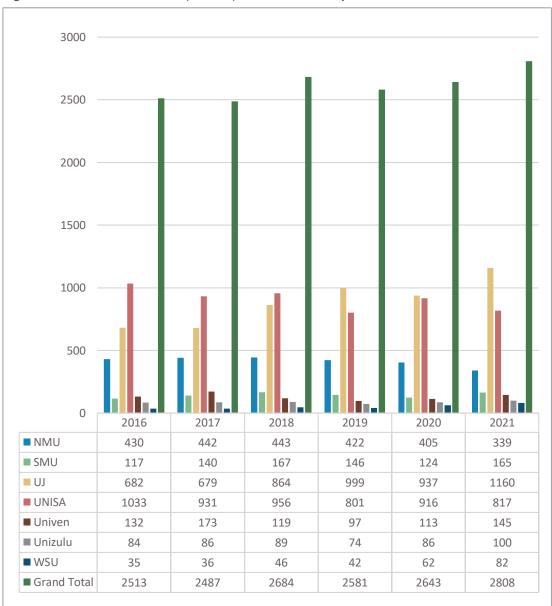


Figure 56: Master's Graduates per Comprehensive University





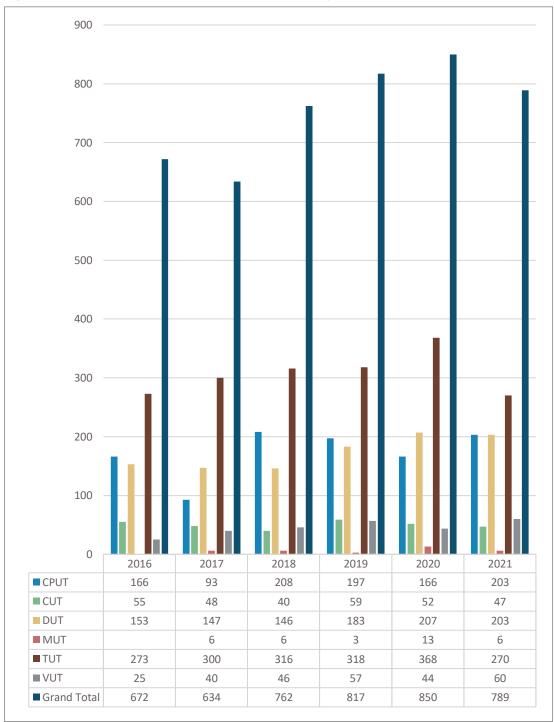
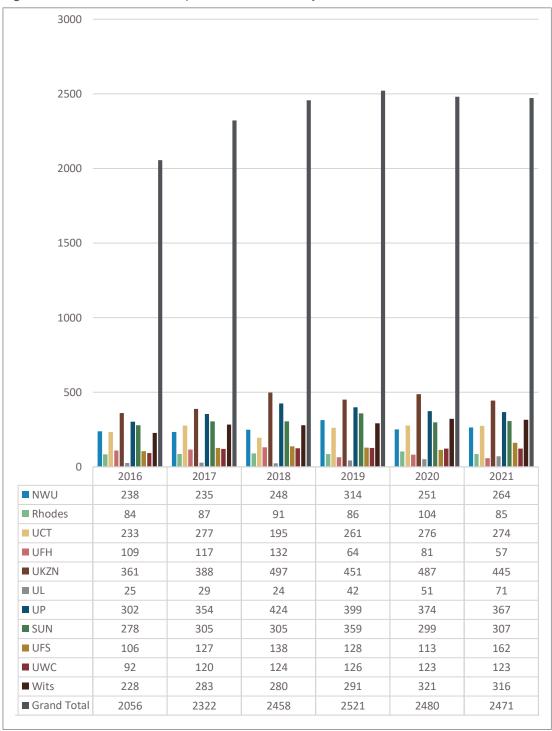


Figure 58: Doctoral Graduates per Traditional University





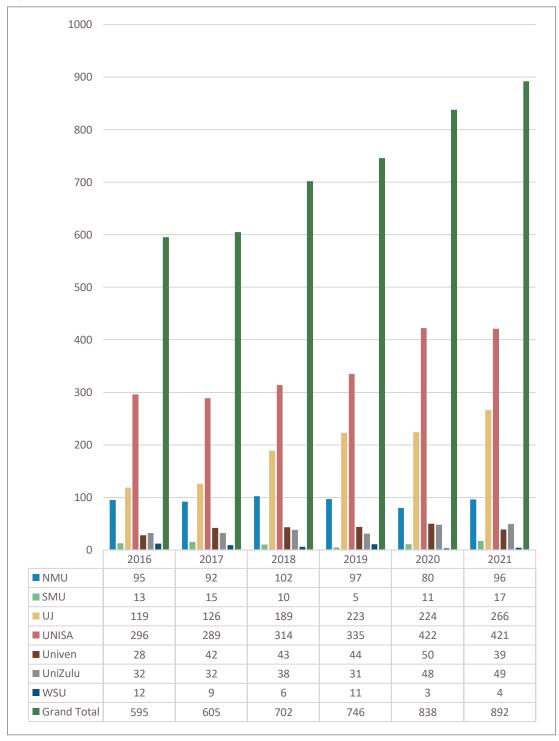
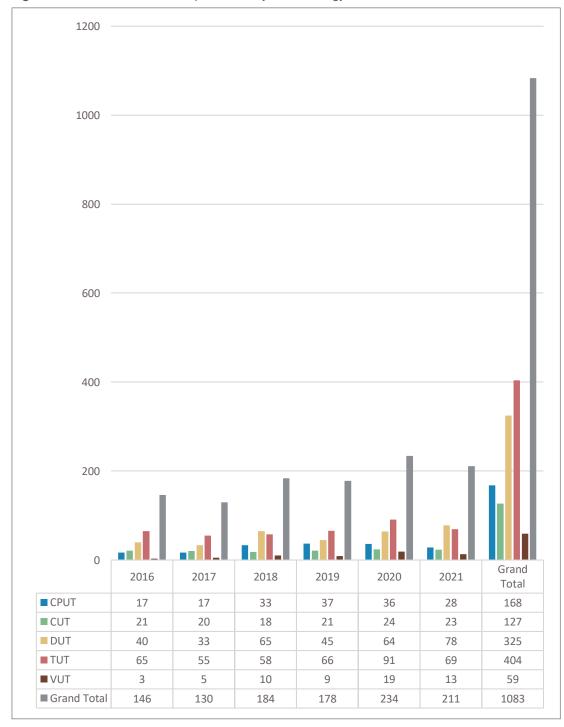


Figure 60: Doctoral Graduates per University of Technology



Master's Cohort Analysis

Master's Cohort Analysis

Figure 61: Throughput rate for research Master's with first year of enrolment in 2016 (excluding UNISA)

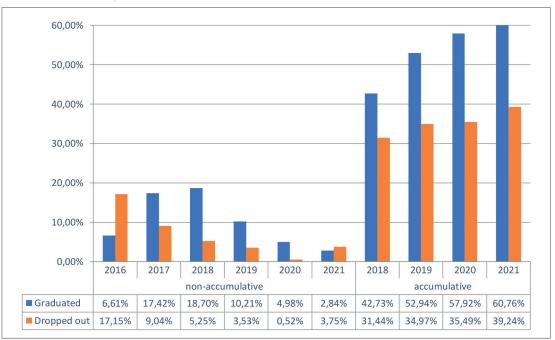


Figure 62: Throughput rates for research Master's with first year of enrolment in 2016 in Science (excluding UNISA)





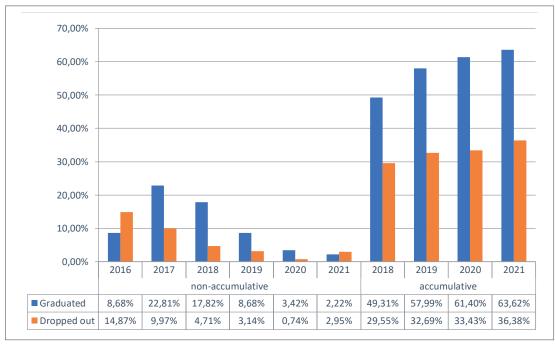


Figure 64: Throughput rates for research Master's with first year of enrolment in 2016 in Business and Management Science and Planning (excluding UNISA)

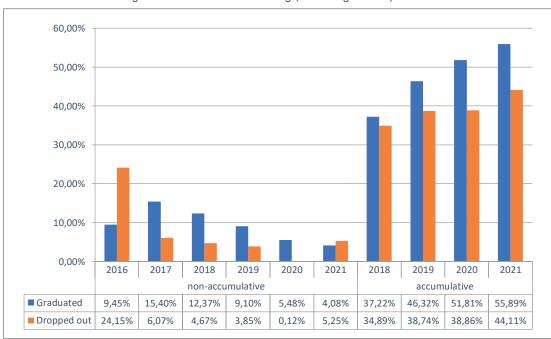


Figure 65: Throughput rates for research Master's with first year of enrolment in 2016 in Health (excluding UNISA)

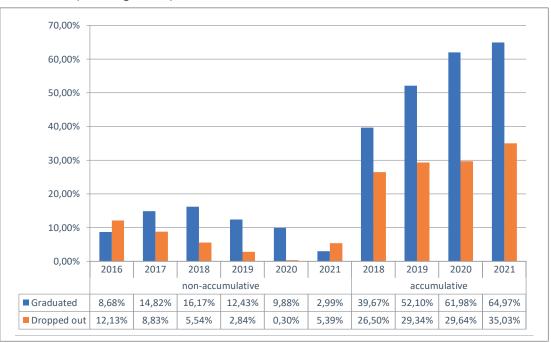
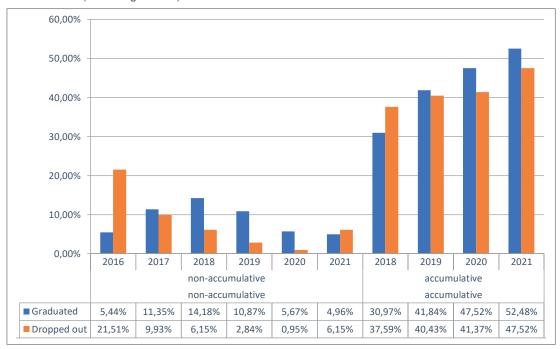


Figure 66: Throughput rates for research Master's with first year of enrolment in 2016 in Education (excluding UNISA)





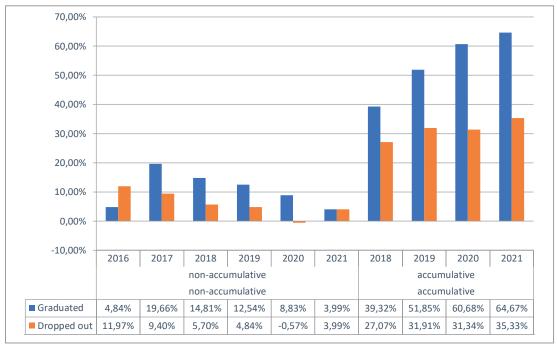


Figure 68: Percentage of the 2016 cohort doing research Master's that graduated in 5 years (by 2021)

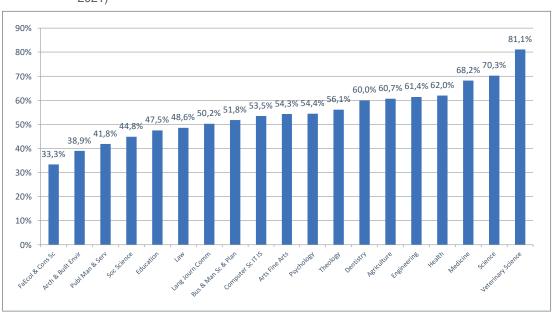


Figure 69: Headcount of the 2016 cohort doing research Master's that graduated in 5 years (by 2021)

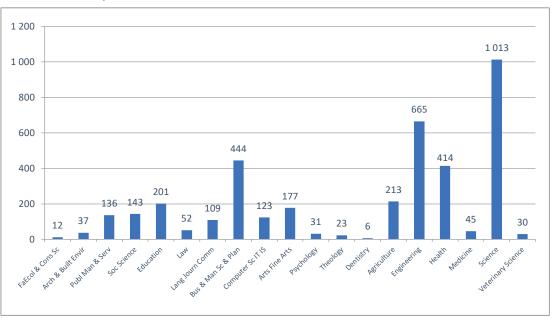
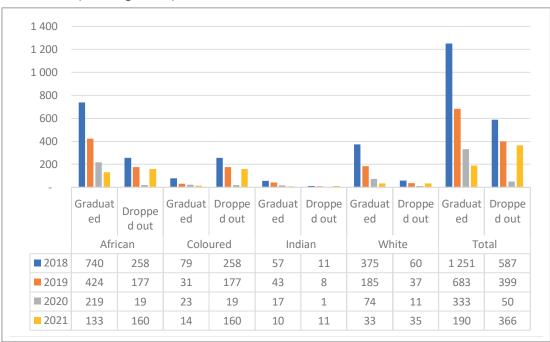


Figure 70: Throughput rates by race for Master's degrees with first year of enrolment in 2016 (excluding UNISA) non-accumulative





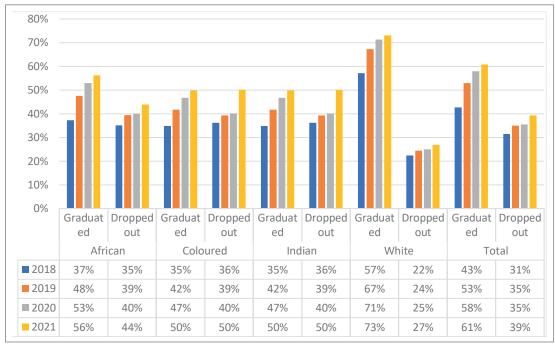


Figure 72: Throughput rates by gender for Master's degrees with first year of enrolment in 2016 (excluding UNISA) non-accumulative

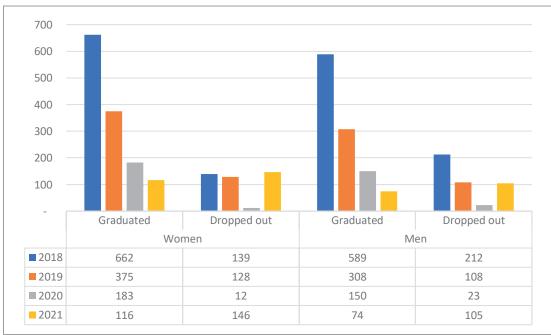


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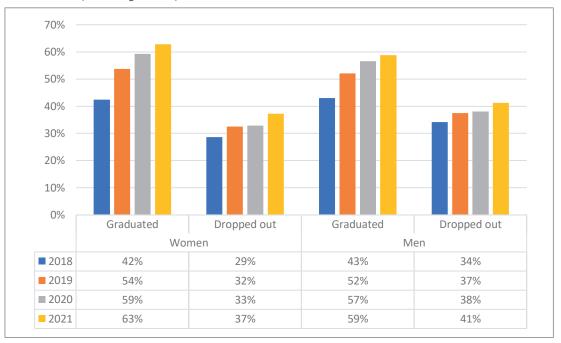
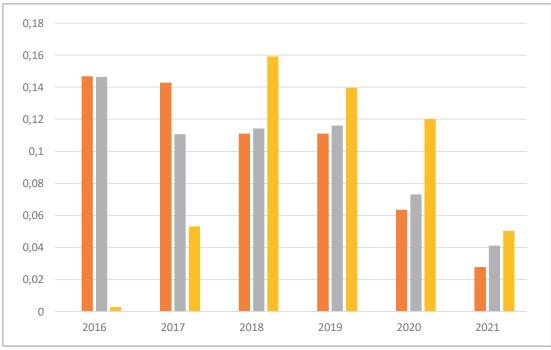


Figure 74: Master's Throughput per UoT, non-accumulative



^{*}Master's Cohort: Only these three UoTs are recorded: CPUT, DUT & TUT



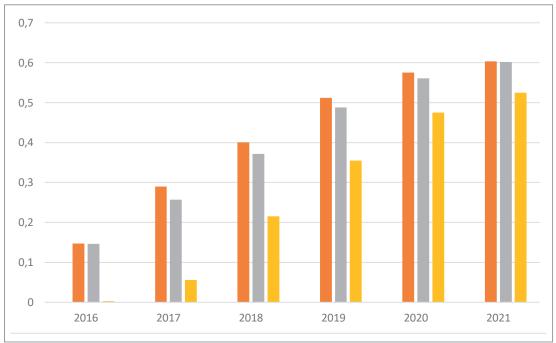


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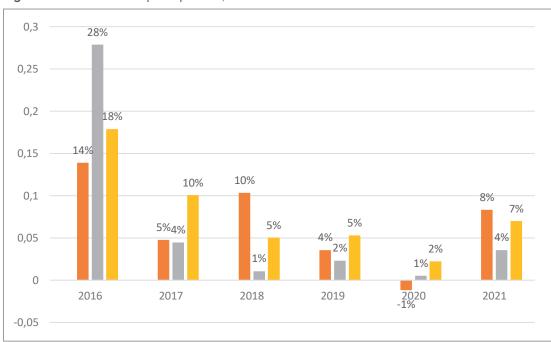


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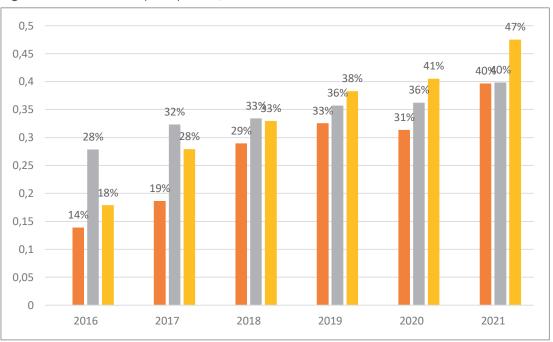
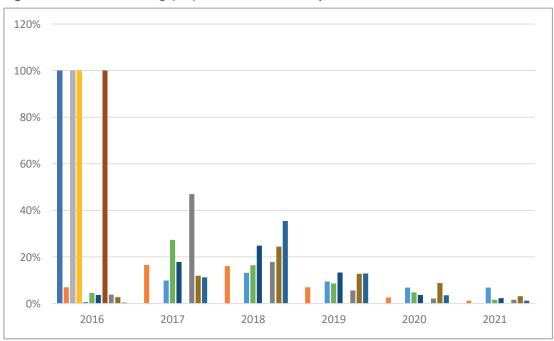


Figure 78: Master's Throughput per Traditional University, non-accumulative



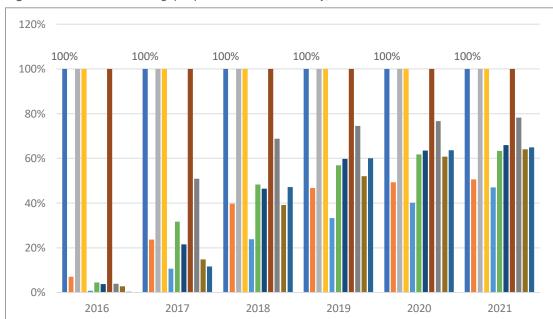


Figure 79: Master's Throughput per Traditional University, accumulative



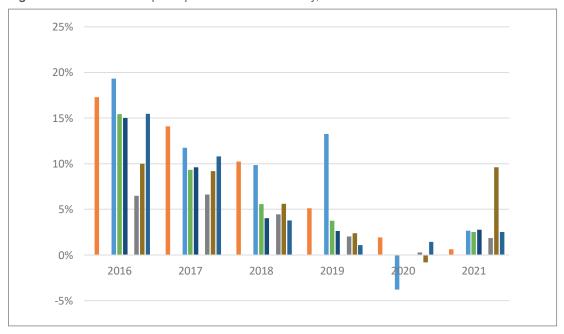


Figure 81: Master's Dropouts per Traditional University, accumulative

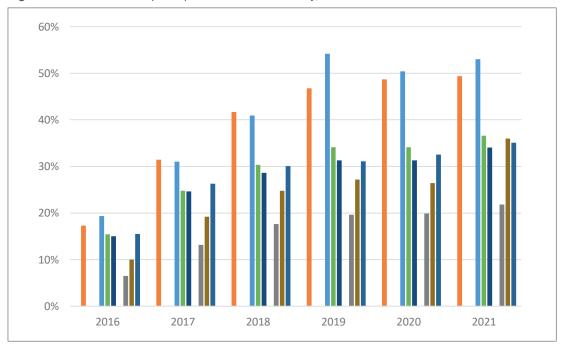
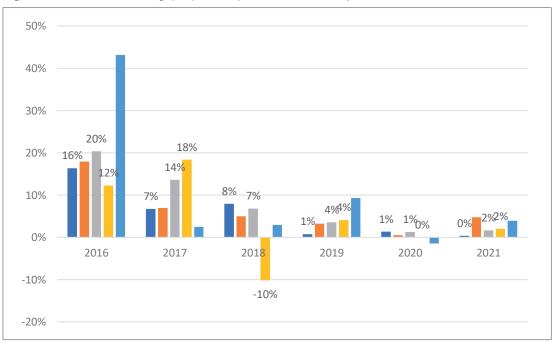


Figure 82: Master's Throughput per Comprehensive University, non-accumulative



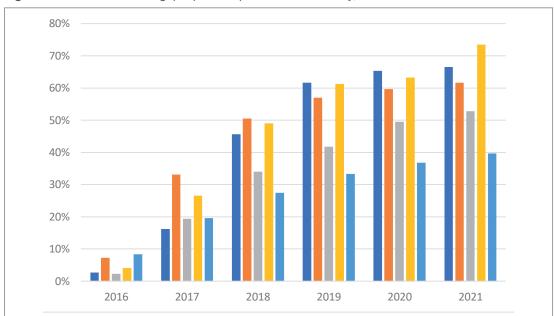


Figure 83: Master's Throughput per Comprehensive University, accumulative



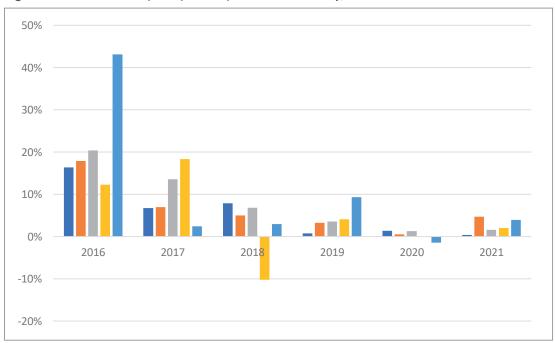
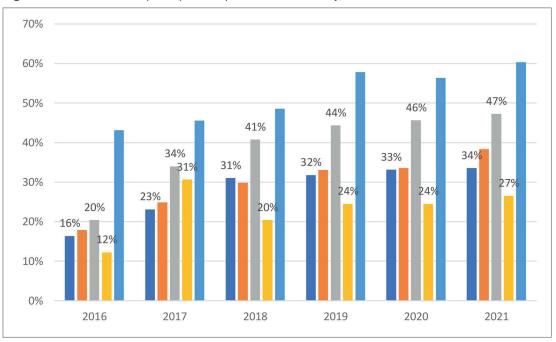


Figure 85: Master's Dropouts per Comprehensive University, accumulative



Doctoral Cohort Analysis

Figure 86: Throughput rates for Doctoral degrees with first year of enrolment in 2016 (excluding UNISA)

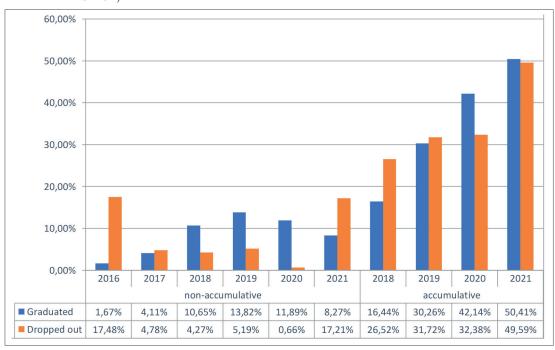






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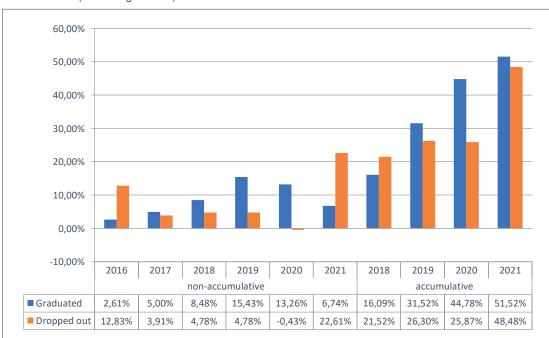


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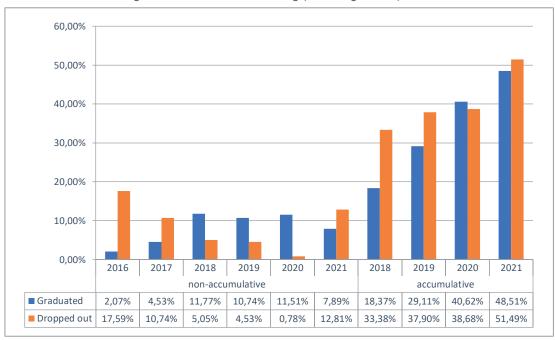
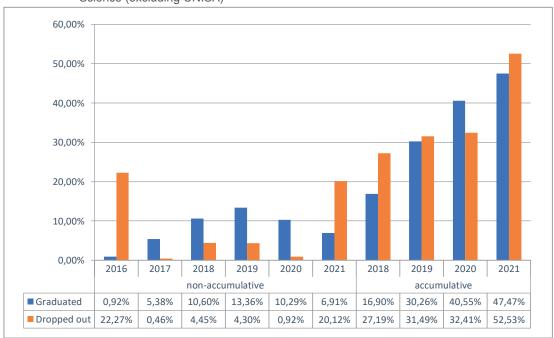


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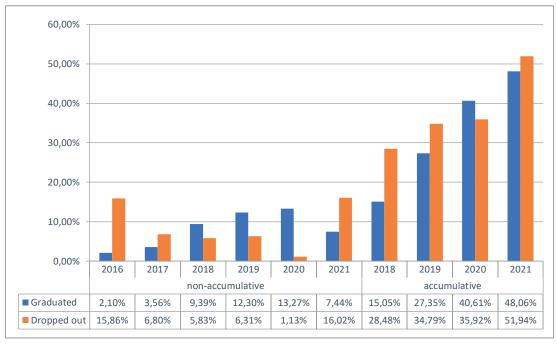


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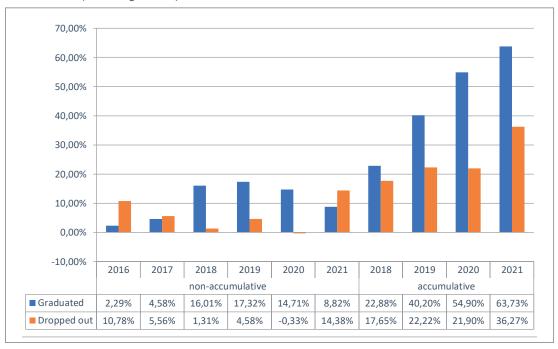


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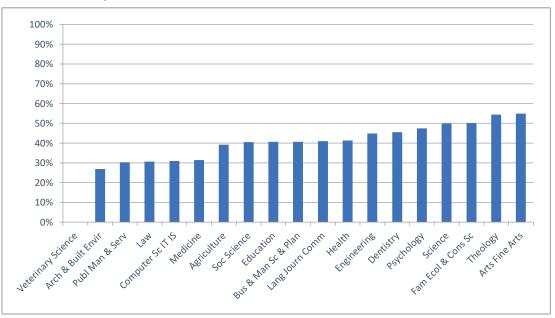
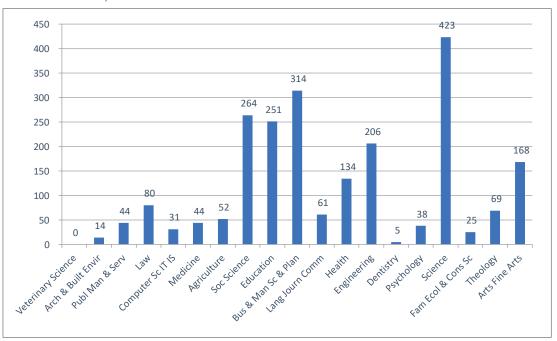


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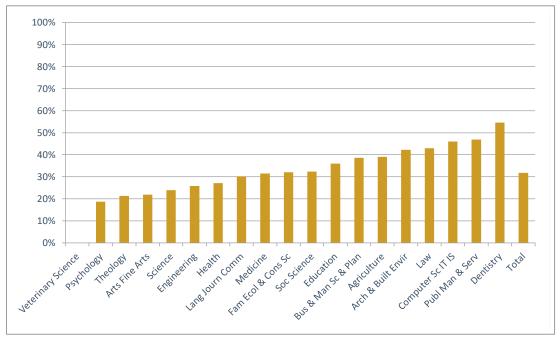


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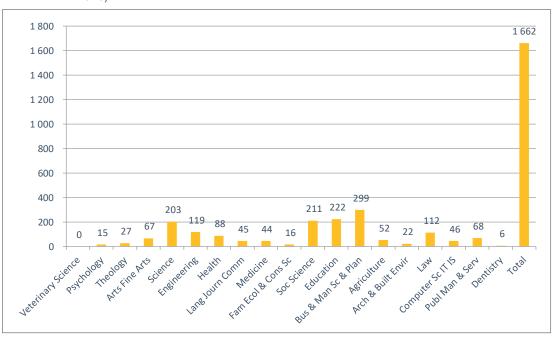


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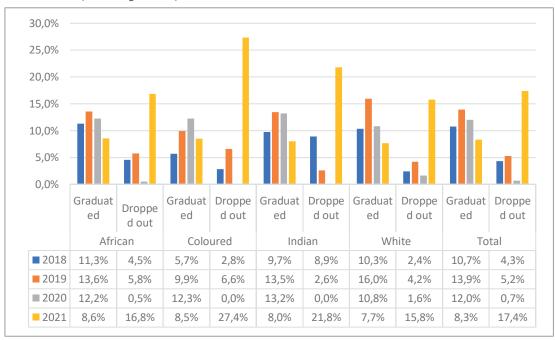
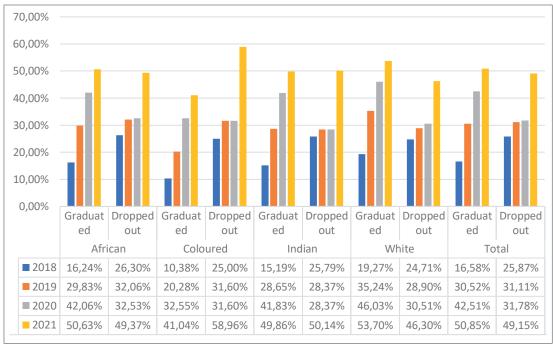


Figure 98: Throughput rates by race for Doctoral degrees with first year of enrolment in 2016 (excluding UNISA) – accumulative.





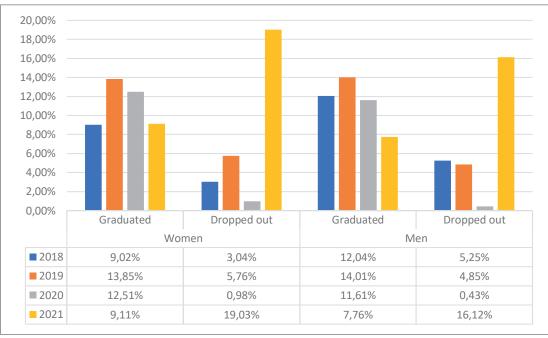


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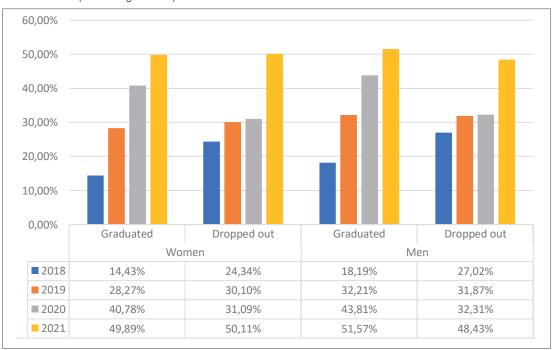


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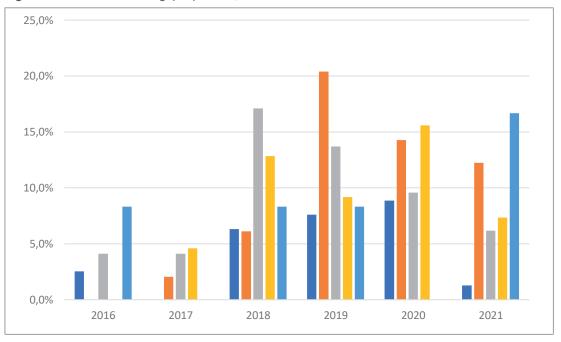
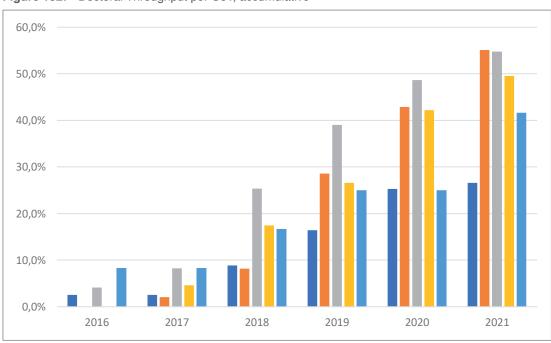


Figure 102: Doctoral Throughput per UoT, accumulative





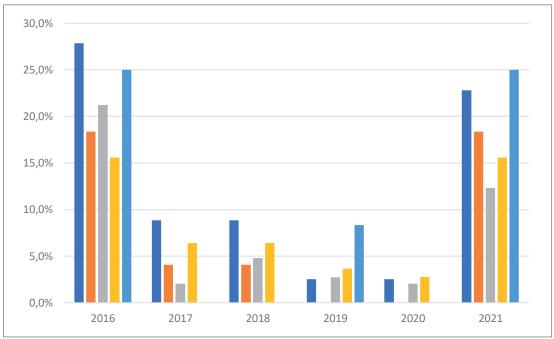


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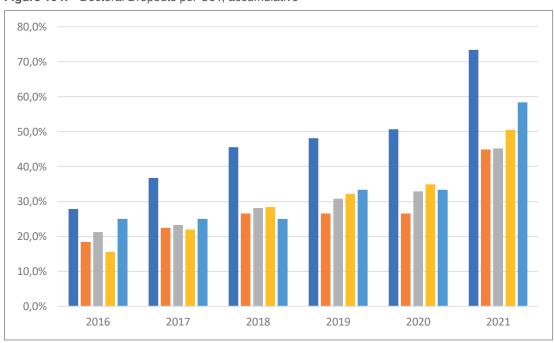


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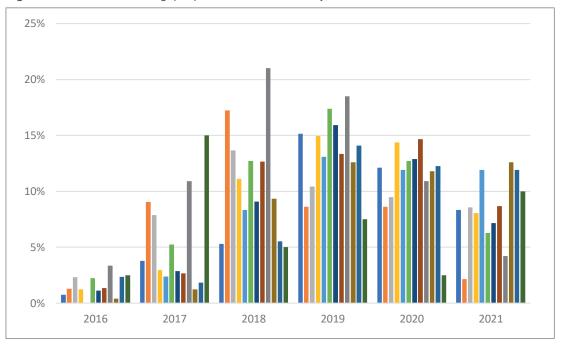
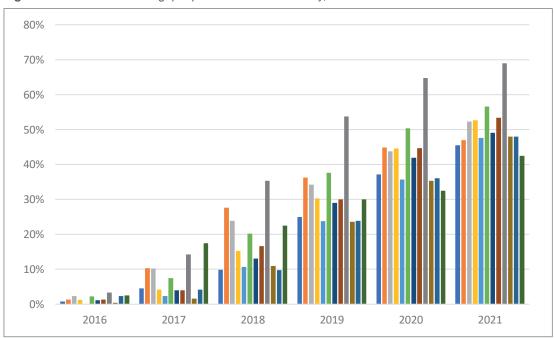


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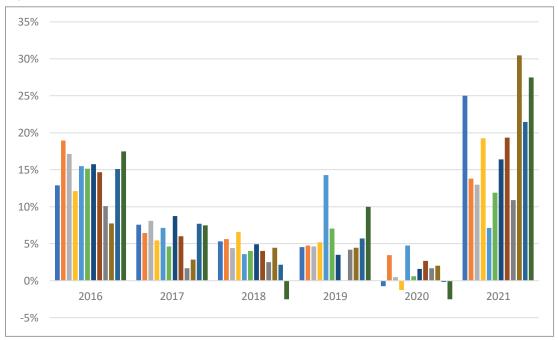


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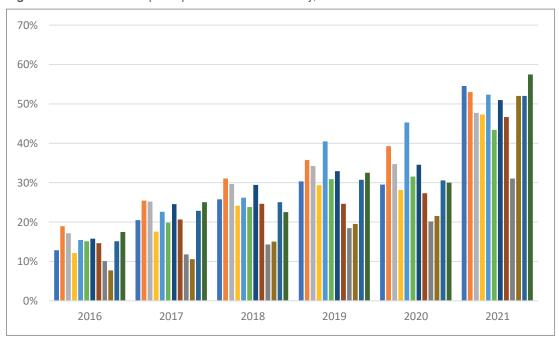


Figure 109: Doctoral Throughput per Comprehensive University, non-accumulative

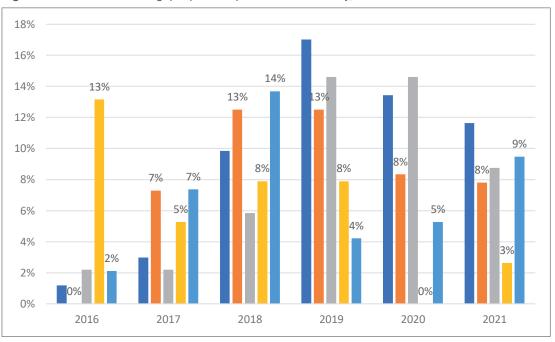
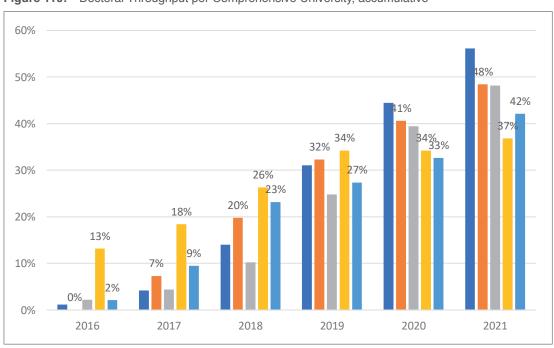
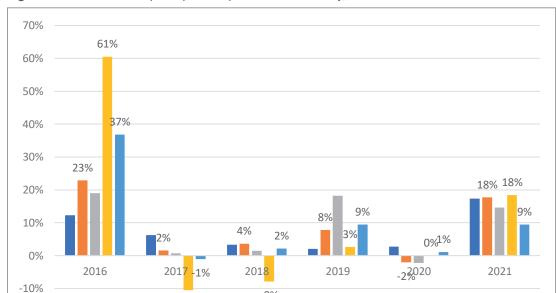


Figure 110: Doctoral Throughput per Comprehensive University, accumulative





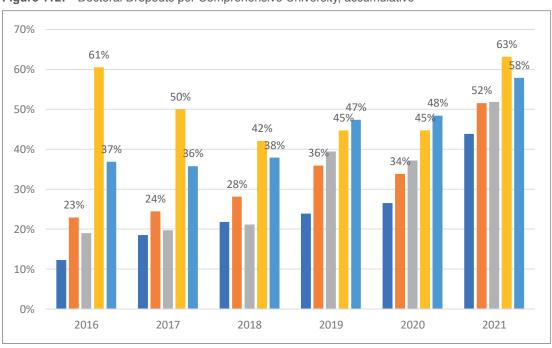
-8%

Figure 111: Doctoral Dropouts per Comprehensive University, non-accumulative



-11%

-20%



Research Funding and Output

Research Funding and Output

Figure 113: Research output units by publication type from 2016 to 2021

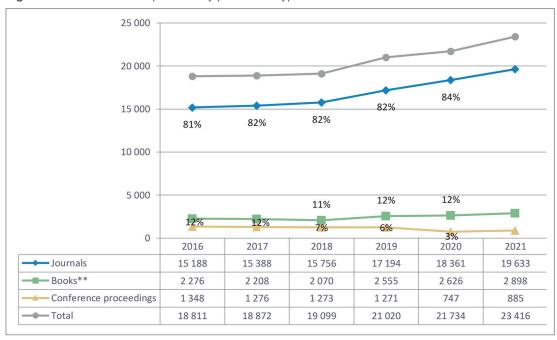
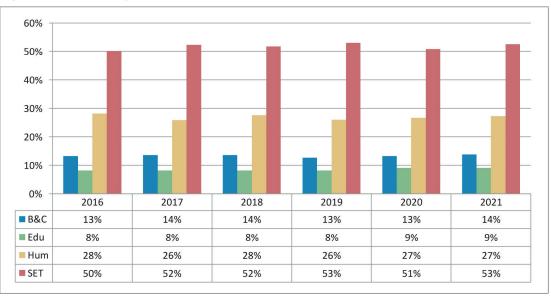


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3 000 2 629 2 500 2 3 7 9 1 973 2 000 1 732 1 500 1 000 675 649

Figure 115: Per capita research output units (all publication types) by CESM for 2021

The CESM categories are listed in Appendix 2.

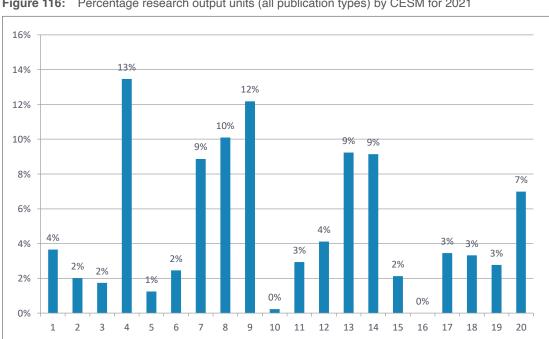


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The CESM categories are listed in Appendix 2.

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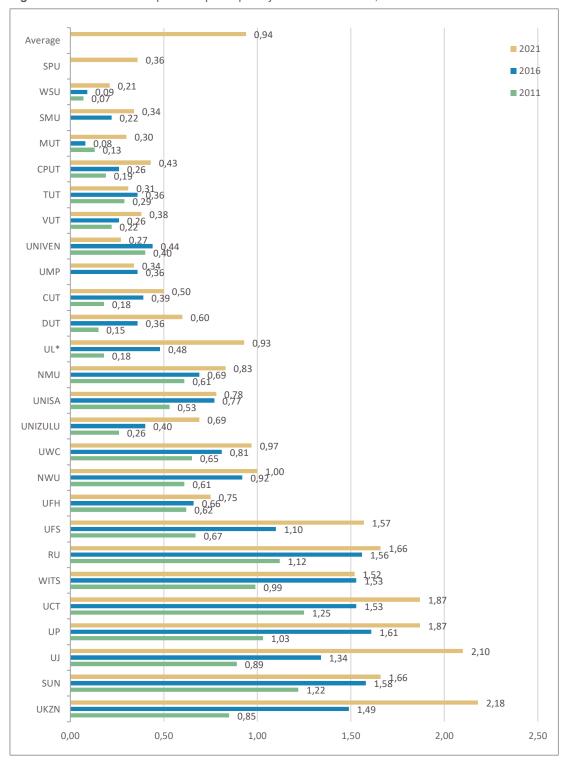


Figure 118: Weighted Actual Research Output Units: Trads

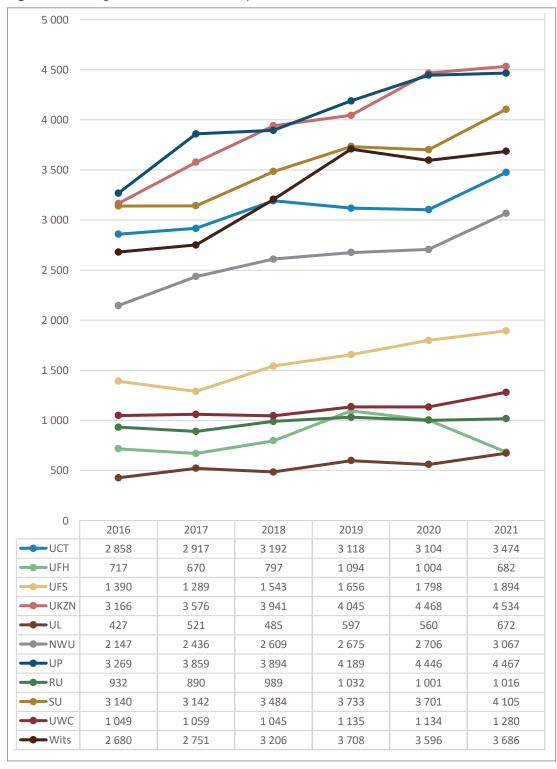
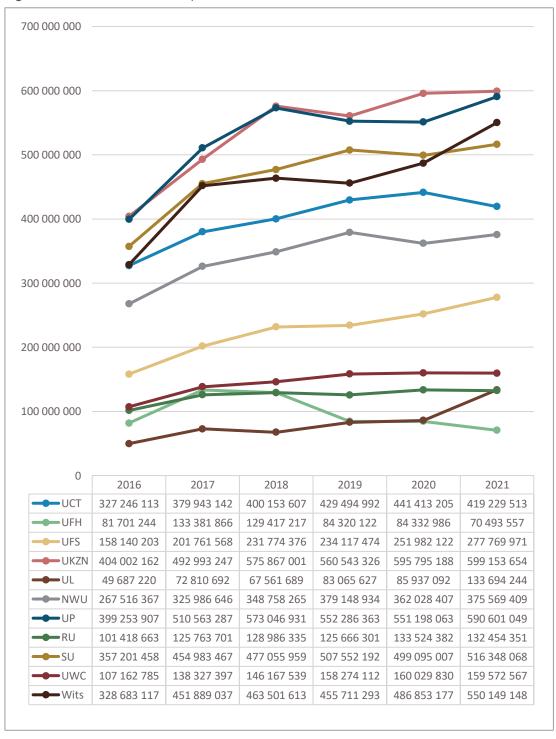


Figure 119: Actual Research Output Grants: Trads



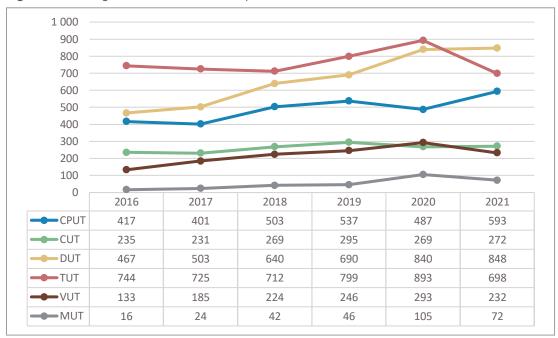


Figure 120: Weighted Actual Research Output Units: UoTs

Figure 121: Actual Research Output Grants: UoTs

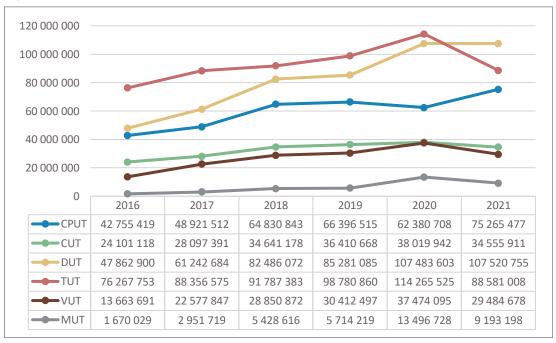


Figure 122: Weighted Actual Research Output Units: Comps

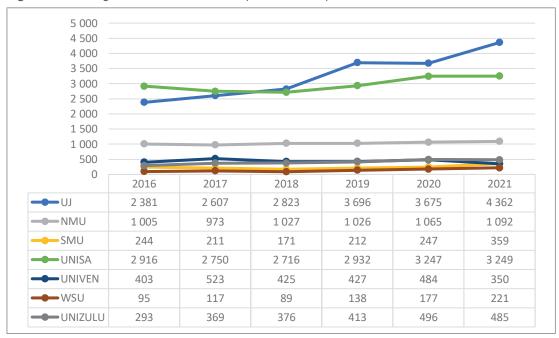


Figure 123: Actual Research Output Grants: Comps

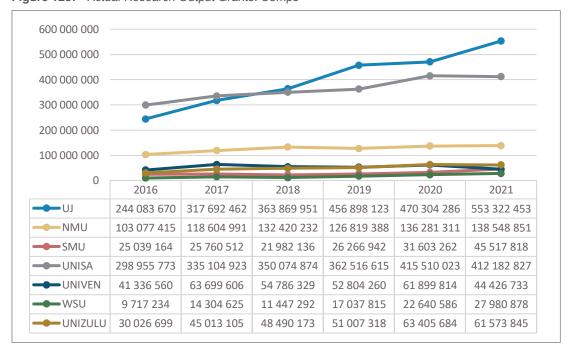


Figure 124: Journal article outputs per Trad

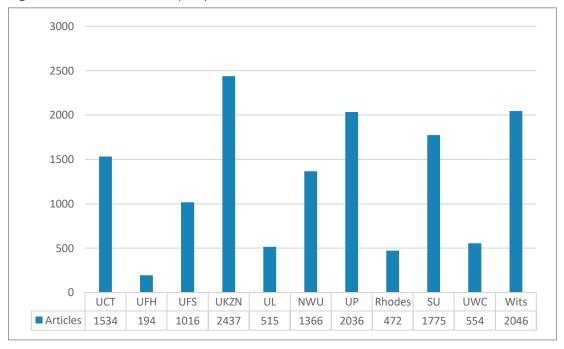


Figure 125: Conference outputs per Trad

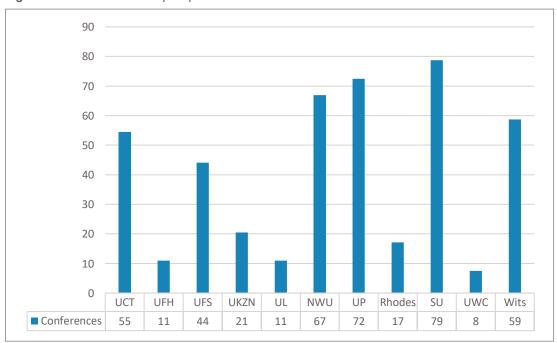


Figure 126: Book and book sections outputs per Trad

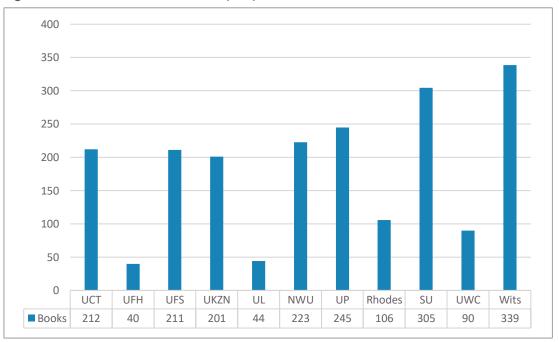


Figure 127: Journal article outputs per Comps

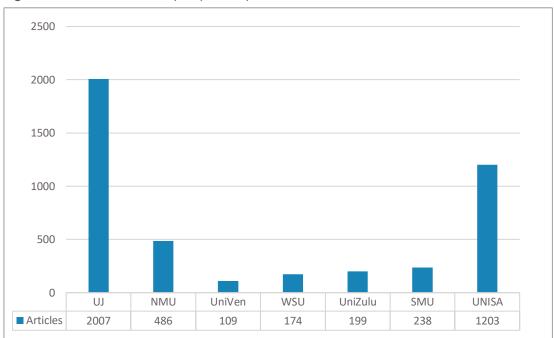


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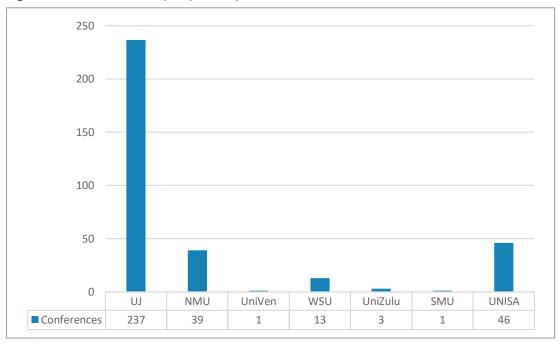


Figure 129: Book and book sections outputs per Comp

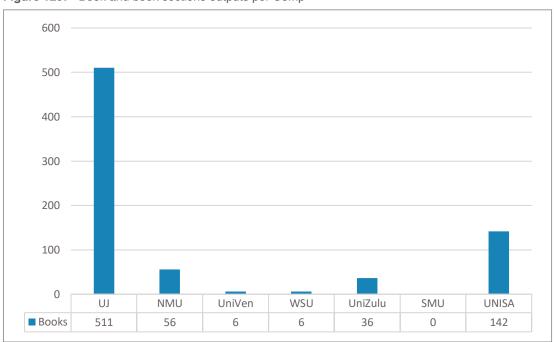


Figure 130: Journal article outputs per UoT

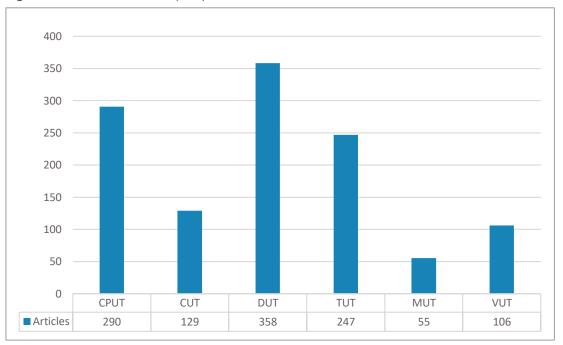


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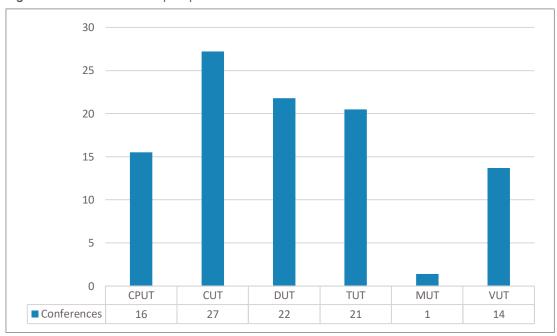
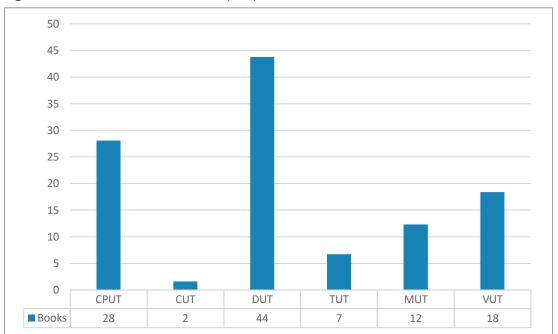


Figure 132: Book and book sections outputs per UoT



Appendix 1:

Public institutions by institutional type

Traditional Universities

North-West University (NWU)

Rhodes University (RU)

University of Cape Town (UCT)

University of Fort Hare (UFH)

University of the Free State (UFS)

University of KwaZulu-Natal (UKZN)

University of Limpopo (UL)

University of Pretoria (UP)

University of Stellenbosch (SU)

University of the Western Cape (UWC)

University of the Witwatersrand (Wits)

Sefako Makgatho Health Sciences University (SMU)

University of Mpumalanga (UMP)

Comprehensive Universities

Nelson Mandela University (NMU)

Sol Plaatjie University (SPU)

University of Johannesburg (UJ)

University of South Africa (UNISA)

University of Venda (UNIVEN)

University of Zululand (UZ)

Walter Sisulu University (WSU)

Universities of Technology

Cape Peninsula University of Technology (CPUT)

Central University of Technology (CUT)

Durban University of Technology (DUT)

Mangosuthu University of Technology (MUT)

Tshwane University of Technology (TUT)

Vaal University of Technology (VUT)

Appendix 2:

Classification of Educational Subject Matter (CESM) categories

CESM 01: Agriculture, Agricultural Operations and Related Sciences

CESM 02: Architecture and the Built Environment

CESM 03: Visual and Performing Arts

CESM 04: Business, Economics and Management Studies
CESM 05: Communication, Journalism and Related Studies

CESM 06: Computer and Information Sciences

CESM 07: Education
CESM 08: Engineering

CESM 09: Health Professions and Related Clinical Sciences

CESM 10: Family Ecology and Consumer Sciences

CESM 11: Languages, Linguistics and Literature

CESM 12: Law

CESM 13: Life Sciences

CESM 14: Physical Sciences

CESM 15: Mathematics and Statistics

CESM 16: Military Sciences

CESM 17: Philosophy, Religion and Theology

CESM 18: Psychology

CESM 19: Public Management and Services

CESM 20: Social Sciences

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