

University Accountability Agreement (UAA)
Institution-specific Key Performance Indicators (KPIs) (as at June 2019)
The Hong Kong University of Sciences and Technology (HKUST)

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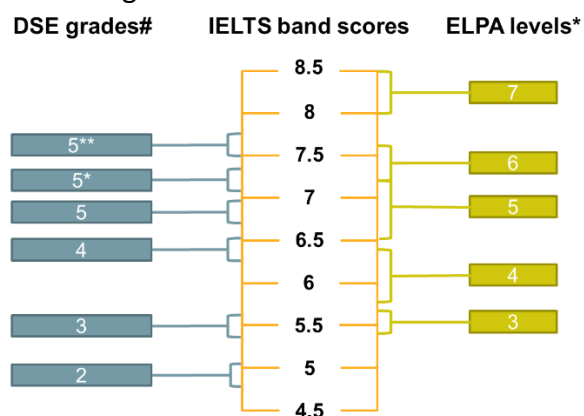
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Domain 1: The quality of the student experience of teaching and learning **KPI 1 Language improvement based on ELPA, an HKUST-developed English test benchmarked against IELTS**

Definition: To measure the language proficiency improvement of HKUST UG students by comparing the students' DSE English results before admission against their ELPA written and speaking test results in May at the end of the first year of study. Both tests have been benchmarked against IELTS band scores to allow direct comparison.



Information provided by HKEAA

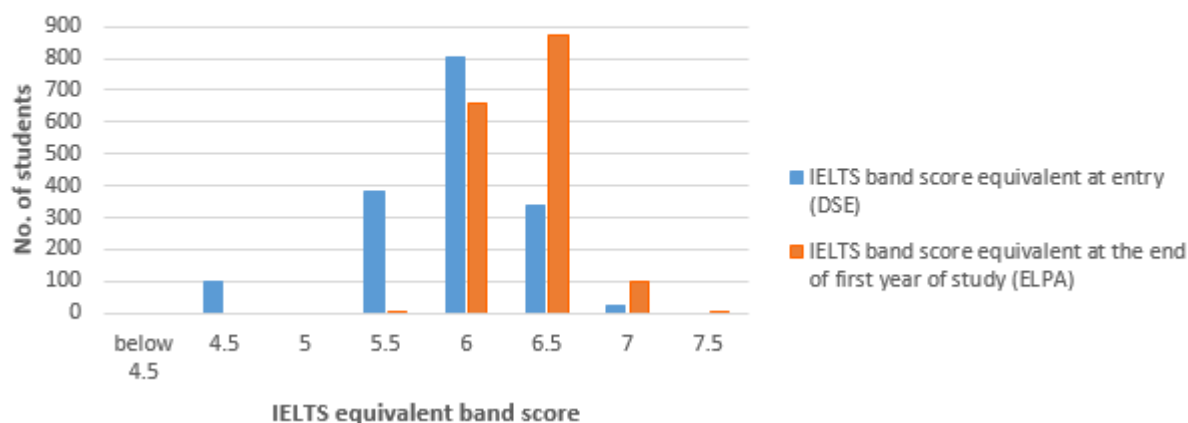
* Based on study with HKUST students

2016/17 Academic Year

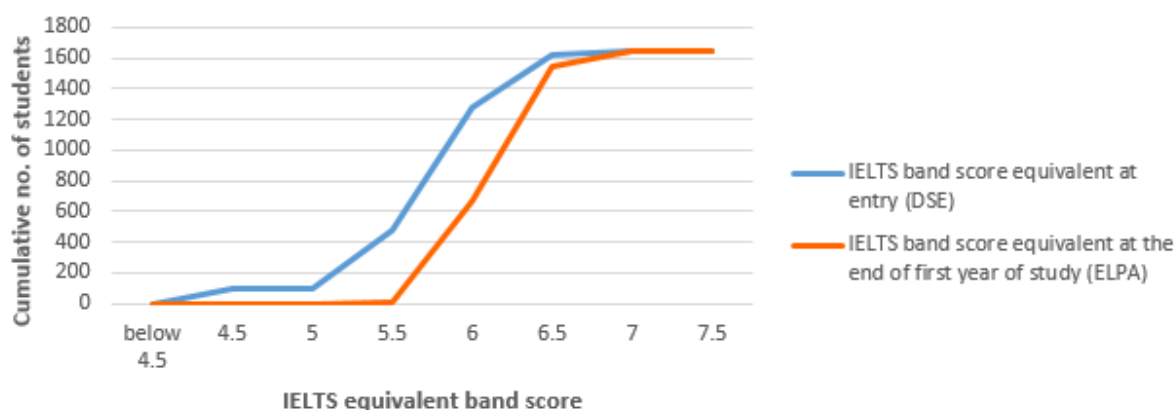
		IELTS band score equivalent at the end of first year of study at HKUST (ELPA)					Total
		5.5	6	6.5	7	7.5	
IELTS band score equivalent at entry (DSE)	4.5	4 (4.2%)	90 (93.8%)	2 (2.1%)			96
	5						-
	5.5	2 (0.5%)	311 (81.4%)	69 (18.1%)			382
	6		250 (31.1%)	533 (66.4%)	20 (2.5%)		803
	6.5		5 (1.5%)	259 (76.9%)	72 (21.4%)	1 (0.3%)	337
	7			13 (59.1%)	9 (40.9%)		22
Total		6	656	876	101	1	1640

Improvement in IELTS band score	- 0.5	0	+0.5	+1.0	+1.5 or above
No. of student	18	520	916	94	92
%	1.1%	31.7%	55.9%	5.7%	5.6%

Comparison of UG Students English Proficiency Before and After first year of study at HKUST (2016/17)



Comparison of UG Students English Proficiency Before and After first year of study at HKUST (2016/17)

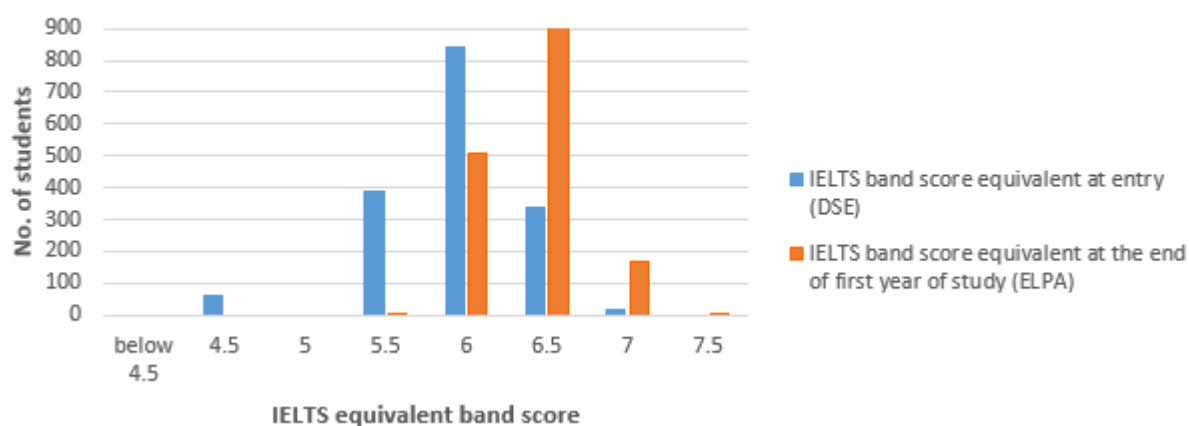


2017/18 Academic Year

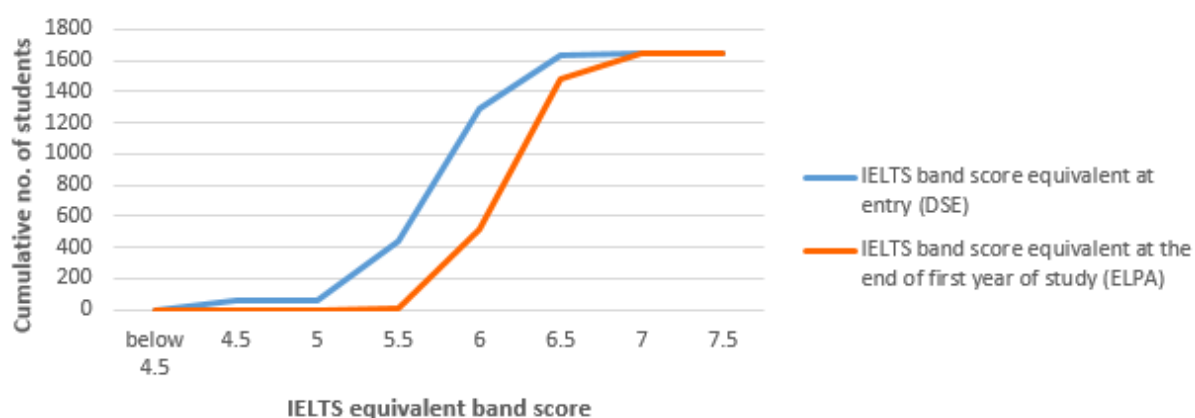
		IELTS band score equivalent at the end of first year of study at HKUST (ELPA)					Total
		5.5	6	6.5	7	7.5	
IELTS band score equivalent at entry (DSE)	4.5	2 (3.4%)	56 (94.9%)	1 (1.7%)			59
	5						-
	5.5		298 (77.2%)	87 (22.5%)	1 (0.3%)		386
	6		153 (18.2%)	651 (77.3%)	38 (4.5%)		842
	6.5		4 (1.2%)	216 (63.3%)	120 (35.2%)	1 (0.3%)	341
	7			8 (42.1%)	11 (57.9%)		19
Total		2	511	963	170	1	1647

Improvement in IELTS band score	- 0.5	0	+0.5	+1.0	+1.5 or above
No. of student	12	380	1069	128	58
%	0.7%	23.1%	64.9%	7.8%	3.5%

Comparison of UG Students English Proficiency Before and After first year of study at HKUST (2017/18)



Comparison of UG Students English Proficiency Before and After first year of study at HKUST (2017/18)



Finding: While 67.2% of students improving their English proficiency after completing Year 1 in 2017, the percentage went up to 76.1% in 2018. In both years, 11.3% improved by one or more IELTS band score equivalent.

Note: Students with DSE Level 2 in English (converted to IELTS band score equivalent of 4.5) were admitted mainly with their associate degree/higher diploma qualifications. As a sub-group, these students show the greatest improvement in English proficiency within the first year of study at HKUST, around 96% of them (92 out of 96 in 2017 and 57 out of 59 in 2018, highlighted in pink on tables above) improved by 1.5 or 2 IELTS band score equivalent.

Domain 1: The quality of the student experience of teaching and learning
KPI 2 Pedagogical innovations and teaching development using active learning pedagogies

Definition: Out of all credit-bearing courses offered, the percentage of courses having more than 50% structured face-to-face active learning components, including in-class small group discussions, small group problem solving sessions, presentations with peer-evaluations, hands-on prototype building and design, and other learning activities where students are engaged in very active learning modes while instructor(s) and TA(s) play the facilitator role.

Credit-bearing courses having more than 50% structured active learning components		
	2016/17 Academic Year	2017/18 Academic Year
No. of courses offered	190	356
Percentage of all credit-bearing courses	190/1,247 = 15%	356/1,369 = 26%
Total no. of student-credit hours	44,164	57,075
UG Student FTE	9,204	9,552
Average no. of credit hours/student from these courses	44,164/9,204 = 4.8	57,075/9,552 = 6.0

Findings: In 2016/17, 15% of courses offered had significant (more than 50%) structured face-to-face active learning components. Undergraduate student enrolment for 2016/17 was 9,204 representing, on average, each student having taken 4.8 credit hours per year from these courses. The percentage of courses offered with significant structured face-to-face active learning components has increased to 26% in 2017/18, representing each student taken on an average 6.0 credit hours per year from these courses.

Domain 1: The quality of the student experience of teaching and learning **KPI 3 Career development measured by employability globally**

Definition: Global University Employability Ranking (designed by HR consultancy Emerging, conducted by research institute Trendence and published by *Times Higher Education*)

Link: <http://www.emerging.fr/>

Global University Employability Ranking

Methodology: The ranking was based on around 6000 recruiters from major companies in 22 countries. The respondents were asked what they were looking for in university systems and to evaluate and choose which institutions in their opinion produce the best performing graduates.

Ranking positions in the past four years

Institution	2015	2016	2017	2018
HKUST	14	13	12	16
University of Tokyo	12	10	9	9
National University of Singapore	17	15	16	10
Peking University	16	17	14	19
HKU	83	77	71	63
Nanyang Technological University	117	101	91	73
CUHK	60	85	82	88

Finding: We were ranked 12th globally in 2017 and 16th globally in 2018 in this ranking, No. 1 in Greater China in both years. It shows that our graduates were highly regarded by global employers.

Domain 2: The quality of research performance and of research postgraduate experience

KPI 1 Success rate of competitive grants

$\text{Success Rate} = \frac{\text{No. of Approved projects}}{\text{No. of Applications with result (ie. No. of Applications - Awaiting result)}}$
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Period: Average Success Rate of Competitive Grants submitted from 2014/15 to 2016/17

Funding Source	Awaiting result	No. of Approved projects	No. of applications	Success rate
UGC/RGC				
UGC Other specific funds/earmarked grants	0	1	4	25.0%
RGC General Research Fund	0	472	990	47.7%
RGC Collaborative Research Fund	0	14	78	17.9%
RGC Theme-based Projects	0	4	20	20.0%
RGC Early Career Scheme	0	40	68	58.8%
RGC Other funds	0	39	125	31.2%
Overall	0	570	1,285	44.4%
Government + HK Private				
HK Government	0	120	333	36.0%
Government related organisations	0	1	7	14.3%
HK charities/foundations	0	29	54	53.7%
HK others	0	2	5	40.0%
Overall	0	152	399	38.1%
Non-HK				
Non-HK	0	247	646	38.2%
Overall				
All competitive grants	0	969	2,330	41.6%

<u>Benchmarking data (2014-17)</u>		HKUST	HKU	CUHK	PolyU	CityU	HKBU	LU	EduHK	<i>Sector-wide average</i>
GRF	Success Rate	49%	38%	37%	29%	34%	28%	25%	23%	35%
ECS	Success Rate	58%	46%	47%	35%	45%	40%	54%	29%	42%
<i>Overall Success Rate</i>		49%	39%	38%	29%	36%	29%	31%	25%	36%

Period: Average Success Rate of Competitive Grants submitted from 2015/16 to 2017/18

Funding Source	Awaiting result	No. of Approved projects	No. of applications	Success rate
UGC/RGC				
UGC Central allocation	0	4	14	28.6%
UGC Other specific funds/earmarked grants	0	2	8	25.0%
RGC General Research Fund	0	478	1,036	46.1%
RGC Collaborative Research Fund	0	13	82	15.9%
RGC Theme-based Projects	0	4	22	18.2%
RGC Early Career Scheme	0	49	79	62.0%
RGC Other funds	0	39	123	31.7%
Overall	0	589	1,364	43.2%
Government + HK Private				
HK Government	26	124	371	35.9%
Government related organisations	0	0	7	0.0%
HK charities/foundations	1	33	63	53.2%
HK others	0	3	6	50.0%
Overall	27	160	447	38.1%
Non-HK				
Non-HK	0	253	750	33.7%
Overall				
All competitive grants	27	1,002	2,561	39.5%

Benchmarking data (2015-18)		HKUST	HKU	CUHK	PolyU	CityU	HKBU	LU	EduHK	<i>Sector-wide average</i>
GRF	Success Rate	48%	35%	36%	29%	34%	25%	26%	22%	34%
ECS	Success Rate	59%	42%	39%	35%	46%	38%	65%	27%	40%
Overall Success Rate		49%	36%	37%	30%	35%	26%	33%	24%	35%

Findings: HKUST is able to achieve a high average success rate of nearly 40% in the above competitive research funding schemes in the past three years; and in particular, we have a success rate of nearly 50% in applying highly competitive GRF and ECS, the highest among Hong Kong institutions and well above the sector-wide average success rate in past three years.

Domain 2: The quality of research performance and of research postgraduate experience

KPI 2 Esteem measures including number of professional society recognitions / awards, other prizes & honours

Period: 2016/17 Academic Year

Joint Schools

No	Name	Academic Unit	Description
1	Prof Ching W. TANG	Department of Electronic and Computer Engineering Department of Chemistry Department of Physics	Awarded IEEE Jun-ichi Nishizawa Medal 2017 for pioneering work on organic light-emitting diode (OLED) displays

School of Science

No	Name	Academic Unit	Description
2	Prof Jianping GAN	Department of Mathematics Division of Environment & Sustainability	Received a large-scale grant from RGC Theme-based Research Scheme 6th Round (2016/17) for the proposal of "Diagnosis and Prognosis of Intensifying Eutrophication, Hypoxia and the Ecosystem Consequences around Hong Kong Waters: Coupled Physical-biogeochemical-pollution Studies"
3	Prof Nancy Y. IP	Division of Life Science	Awarded the Bronze Bauhinia Star (BBS) for her strenuous efforts towards the advancement of science and education, and dedicated commitment to the academia Received a large-scale grant from RGC Area of Excellence Scheme 7th Round (2016/17) for the proposal of "Cellular Mechanisms of Synaptic Functions and Plasticity in Health and Neurodegenerative Diseases"
4	Dr Danny Chi-Yeu LEUNG	Division of Life Science	Received the Croucher Innovation Award 2017
5	Prof Peiyuan QIAN	Division of Life Science	Received 2 nd class State Natural Science Award (SNSAs) 2016 for his discovery of biofilm's impact on the initial colonisation of marine benthos – organisms that live on or near the seabed such as corals and shells
6	Prof Benzhong TANG	Department of Chemistry	Named Highly Cited Researcher by Thomson Reuters (2016 and 2017)

School of Engineering

No	Name	Academic Unit	Description
7	Prof Guanghao CHEN	Department of Civil & Environmental Engineering	Received the National Innovation Pioneer Award
8	Prof Pascale FUNG	Department of Electronic & Computer Engineering	Received the 2017 Outstanding Women Professionals and Entrepreneurs Award
9	Prof Guillermo GALLEGO	Department of Industrial Engineering & Decision Analytics	Awarded 2016 Impact Prize of the Institute for Operations Research and the Management Sciences
10	Prof Mohamed S. GHIDAQUI	Department of Civil & Environmental Engineering	Received a large-scale grant from RGC Theme-based Research Scheme 5th Round (2015/16) for the proposal of "Smart Urban Water Supply Systems (Smart UWSS)"
11	Prof Kei May LAU	Department of Electronic & Computer Engineering	Received the IEEE Photonics Society (IPS) 2017 Aron Kressel Award
12	Prof Charles NG	Department of Civil & Environmental Engineering	Received a large-scale grant from RGC Theme-based Research Scheme 5th Round (2015/16) for the proposal of "Understanding Debris Flow Mechanisms and Mitigating Risks for a Sustainable Hong Kong"
13	Prof Tianshou ZHAO	Department of Mechanical & Aerospace Engineering	Named Highly Cited Researcher 2017 by Thomson Reuters (2016 and 2017)

School of Business & Management

No	Name	Academic Unit	Description
14	Prof Larry FARH	Department of Management	Named Highly Cited Researcher 2017 by Thomson Reuters (2017)
15	Prof Jiatao LI	Department of Management	Elected as Fellow of the Academy of International Business (AIB)
16	Prof Francis LUI	Department of Economics	Awarded the Bronze Bauhinia Star (BBS) for his distinguished academic achievements in the fields of economics and finance as well as his dedicated public service
17	Prof James THONG	Department of Information Systems, Business Statistics & Operations Management	Elected as AIS Fellow of the Association of Information Systems

School of Humanities and Social Science

No	Name	Academic Unit	Description
18	Prof Tik Sang LIU	Division of Humanities	Appointed as Executive Editor-in-Chief, Journal of History and Anthropology (2016/17)
19	Prof Jenny SMITH	Division of Humanities	Elected as Andrew Carnegie Fellow for 2017-2019

Period: 2017/18 Academic Year

Joint Schools

No	Name	Academic Unit	Description
1	Prof Ching W. TANG	Department of Electronic and Computer Engineering	Inducted to US National Inventors Hall of Fame
		Department of Chemistry	Recipient of the 2018 Doctor of Science <i>honoris causa</i> from the University of Hong Kong
		Department of Physics	

School of Science

No	Name	Academic Unit	Description
2	Prof Jianfeng CAI	Department of Mathematics	Named as a Highly Cited Researcher for 2018 by Clarivate Analytics
3	Dr Kwan Kit Jason CHAN	Department of Chemistry	Recipient of the 2018 University Grants Committee (UGC) Teaching Award under the category of Early Career Faculty Members
4	Prof Simon Wan CHAN	Department of Chemistry	Awarded the 2017 Research Article of the Year in the Journal of Agricultural and Food Chemistry
		Division of Environment and Sustainability	Recipient of the 2018 Chemical Research in Toxicology Young Investigator Award
5	Prof Xi DAI	Department of Physics	Named as a Highly Cited Researcher for 2018 by Clarivate Analytics
6	Prof Bingyi JING	Department of Mathematics	Elected as Fellow of the American Statistical Association (ASA) in 2018
7	Prof Jacky W. Y. LAM	Department of Chemistry	Named as a Highly Cited Researcher for 2018 by Clarivate Analytics

School of Science (cont.)

No	Name	Academic Unit	Description
8	Prof Nancy IP	Division of Life Science	Recipient of a large-scale grant from the RGC Theme-based Research Scheme 8th Round (2018/19)
			Elected as Hong Kong Deputy to the 13 th National People's Congress
9	Prof Tuan Anh NGUYEN	Division of Life Science	Recipient of the Croucher Innovation Awards 2018
10	Prof Ding PAN	Department of Physics Department of Chemistry	Recipient of the Croucher Innovation Awards 2018
11	Prof Ping SHENG	Department of Physics	Recipient of the 2018 Rolf Landauer Medal by the International Association for the Science of Electrical Transport and Optical Properties of Inhomogeneous Media (ETOPIM)
12	Prof Benzong TANG	Department of Chemistry Department of Chemical and Biological Engineering	Recipient of the First-class State Natural Science Award 2017
			2017 Prize for Scientific and Technological Progress of the Ho Leung Ho Lee Foundation
			Named as a Highly Cited Researcher for 2018 by Clarivate Analytics
13	Prof He YAN	Department of Chemistry	Named as a Highly Cited Researcher for 2018 by Clarivate Analytics
14	Prof Mingjie ZHANG	Division of Life Science	Recipient of the Croucher Senior Research Fellowship Award for 2018-19

School of Engineering

No	Name	Academic Unit	Description
15	Prof Man Sun CHAN	Department of Electronic and Computer Engineering	Recipient of the 2017 IEEE Electron Devices Society Education Award
16	Prof Zhiyong FAN	Department of Electronic and Computer Engineering	Named as a Highly Cited Researcher for 2018 by Clarivate Analytics
			Elected as Fellow of the Royal Society of Chemistry in 2018
17	Prof Pan HUI	Department of Computer Science and Engineering	Elected as Fellow of the Institute of Electrical and Electronics Engineers in 2018

School of Engineering (cont.)

No	Name	Academic Unit	Description
18	Prof Jang-Kyo KIM	Department of Mechanical and Aerospace Engineering	Named as a Highly Cited Researcher for 2018 by Clarivate Analytics
19	Prof Joseph Hun-wei LEE	Division of Public Policy Department of Civil and Environmental Engineering	Recipient of the First Prize of 2017 Hong Kong Construction Industry Council (CIC) Innovation Award in the Construction Sustainability Category
			Elected as one of seven Invisible Silent Superheroes by the Institution of Civil Engineers Hong Kong Association
20	Prof Charles Wang Wai NG	Department of Civil and Environmental Engineering	Elected as President of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) in 2017
			Recipient of the 2017 Telford Premium Award
			Recipient of the 2017 Prix R M Quigley Award (Honorable mention)
21	Prof David Paul ROSSITER	Department of Computer Science and Engineering	Recipient of the 2017 Michael G. Gale Medal for Distinguished Teaching
22	Prof Qiang YANG	Department of Computer Science and Engineering	Recipient of the 2017 SIGKDD Service Award
		Department of Electronic and Computer Engineering	Elected as 2017 Fellow of Association for Computing Machinery (ACM)
23	Prof Limin ZHANG	Department of Civil and Environmental Engineering	Recipient of GEOSNet Award 2017
			Recipient of the Second-class Higher Education Outstanding Scientific Research Output Awards (Science and Technology) 2017
24	Prof Tianshou ZHAO	Department of Mechanical and Aerospace Engineering	Received a large-scale grant from the RGC Theme-based Research Scheme 7th Round (2017/18)
			Named as a Highly Cited Researcher for 2018 by Clarivate Analytics

School of Business & Management

No	Name	Academic Unit	Description
25	Prof Yingying LI	Department of Information Systems, Business Statistics and Operations Management Department of Finance	Elected as Fellow of the Society for Financial Econometrics in 2017
26	Prof Kar Yan TAM	Department of Information Systems, Business Statistics and Operations Management	Elected as President of Association of Asia-Pacific Business Schools Recipient of a large-scale grant from the RGC Theme-based Research Scheme 8th Round (2018/19)

School of Humanities and Social Science

No	Name	Academic Unit	Description
27	Prof Xiaogang WU	Department of Social Science	Elected as Inaugural President of the International Chinese Sociological Association

Domain 2: The quality of research performance and of research postgraduate experience

KPI 3 RPg student experience based on end-of-program survey results

Methodology: As part of the process of continuous improvement of its programs, the University invites graduating RPgs to complete an end-of-program satisfaction survey to provide systemic feedback on various aspects of their study experience including thesis supervision, coursework, professional development training, learning outcomes, and the overall learning experience.

Definition: RPg students' rating on: i) Thesis supervision and support; and ii) Learning outcomes.

i) Thesis Supervision and Support (5-point scale)

	2016/17		2017/18	
	MPhil	PhD	MPhil	PhD
My supervisor(s) stimulated my lateral and critical thinking and enabled me to create new knowledge and new discoveries.	4.63	4.78	4.57	4.72
My supervisor(s) stated to me clearly the standard of work expected.	4.55	4.70	4.55	4.62
My supervisor(s) provided helpful feedback on my progress.	4.56	4.70	4.58	4.64
I learned much about research skills from my supervisor(s).	4.58	4.67	4.51	4.66
Members of the Thesis Supervision Committee were accessible when I needed their advice.	4.58	4.66	4.64	4.65
Overall, I am happy with the thesis supervision received at HKUST.	4.59	4.71	4.56	4.64

Effective thesis supervision and support is deemed essential for students in pursuing the research postgraduate studies. Thesis supervisors are dedicated to providing research mentorship to RPgs, cultivating good academic environment and research habits, promoting research integrity, and reinforcing responsible conduct of research by example. The data as shown in above table indicates that RPgs, in particular PhD students, are satisfied with the thesis supervision received at HKUST. It is evident that by providing useful advice, guidance, and direction of study/research, thesis supervisors could stimulate students' thinking and enable the creation of new knowledge and discoveries.

ii) Learning Outcomes (5-point scale)

	2016/17		2017/18	
	MPhil	PhD	MPhil	PhD
I have developed sound research skills through my training at HKUST.	4.43	4.62	4.54	4.58
I have developed new knowledge and created new theories, methodology, or other research output in my field of study through my training at HKUST.	4.41	4.64	4.50	4.57
I become a critical thinker through my training at HKUST.	4.38	4.67	4.47	4.63
I am able to conduct enquiries in my area of specialisation in a professional, expert and ethical manner.	4.39	4.68	4.44	4.55
I am prepared to embark on an academic career, and to teach university-level courses in my area of specialisation.	4.01	4.35	4.13	4.35

The University seeks to train its RPs to develop sound research skills, to acquire the latest theoretical knowledge and become critical thinkers in their chosen fields of study, and to conduct enquiries in their areas of specialisation in a professional, expert and ethical manner. As presented in above table, graduating RPs have indicated a high level of satisfaction on all these aspects, suggesting that the RP programs on offer could provide adequate training to students, in particular PhD students, and prepare them for career pursuits in future.

Domain 3: Knowledge transfer and wider engagement**KPI 1 Technology transfer and commercialisation by number of patents filed, granted and used**

Definition: The figures are counted based on the actual number of patents filed and granted according to the official filing date and issue date of the application with the respective patent office. This is different from the CDCF required by UGC which is counted according to the:

(1) number of country of filings

(2) number of patent types which is defined in accordance with the international patent classification (i.e. technology area) of the patents)

Type/ Financial Year	2016/17	2017/18
Number of patents filed in the year (according to filing date)	205	204
Number of patents granted in the year (according to issue date)	89	76
Number of patents used (newly signed contracts according to contract date) ¹	36	47
Number of patents used (active contracts according to contract period) ²	230	255

Finding: HKUST has filed a substantial number of patents in the year, and had quite a lot of patents granted in the year. Many of these patents are being used actively throughout the years, showing that HKUST research achievements are recognised by the society to a large extent.

¹ Patents used refers to the number of patents utilised by means of licensing during the reporting period, including rights granted as background IP in newly signed contracts with value according to the contract date. All used patents only counted once if it is included in more than one contract.

² Patents used (active) refers to the number of patents utilised by means of licensing during the reporting period, including rights granted as background IP in active contracts with value according to the contract period. All used patents only counted once even if it is included in more than one contract.

Domain 3: Knowledge transfer and wider engagement**KPI 2 Entrepreneurship – number of start-up and spin-off companies funded, incubated or coached by HKUST including Technology Start-up Support Scheme for Universities (TSSSU)**

Definition: the following companies only includes the economically active spin-off and start-up companies being funded, incubated or coached by the HKUST Entrepreneurship Program located in Hong Kong and Mainland platforms (Guangzhou HKUST Fok Ying Tung Research Institute (FYTRI) in Nansha and HKUST Shenzhen Research Institute (SRI) in Shenzhen), Technology Start-up Support Scheme for University (TSSSU) Program, Yeung Wing Yee Entrepreneurs Fund, HKUST Entrepreneurship Acceleration Fund and HKUST One Million Dollar Entrepreneurship Competition.

Category/ Calendar Year	2016	2017
Number of start-up companies	43	33
Number of spin-off companies	71	116
Total	114	149

Note: For companies funded or admitted to more than one programs or having offices in more than one location only counted once.

Finding: HKUST has, through the offering of various scheme/programs, facilitated the founding of quite a number of companies for young entrepreneurs to realise their potential, dreams and inspirations on the path of entrepreneurship.

Domain 3: Knowledge transfer and wider engagement

KPI 2 Number of entries in HKUST-supported competitions

Definition: This KPI aims at measuring how HKUST is doing to engage the wider community by organising or co-organising competitions to promote knowledge transfer/entrepreneurship. The intended competition participants are open to the general public; the participants were not limit to our students, staff and alumni. Competitions which are organised solely for HKUST community were excluded.

Period: 2016/17 Academic Year

Name of Competition	Number of Teams	Number of Participants
HKUST One Million Dollar Entrepreneurship Competition	945	2,974
Hackathon@HKUST	109	622
Underwater Robot Competition	42	300
Hack-O-Life 2016	12	50
Citi International Case Competition	15	60
HKUST Global MBA Challenge 2017	12	48
IEEE Electronic Endeavor Match	-	66
Total	1,135	4,120

Period: 2017/18 Academic Year

Name of Competition	Number of Teams	Number of Participants
HKUST One Million Dollar Entrepreneurship Competition	934	3,152
Hackathon@HKUST	95	422
Underwater Robot Competition	114	798
E-commerce Challenge	16	49
FinTech Hackathon (UHackFin)	28	120
HKUST-Citibank Case Competition 2017	15	75
HKUST Global MBA Challenge 2018	14	56
IEEE Electronic Endeavor Match	-	96
RoboMaster 2017 Tournament	32	815
The 2018 International Contest of Applications of Nano-Microtechnologies (iCAN2018)	23	79
Total	1,271	5,662

Finding: In the past two years, more than 4,000 people from the general public benefited from these knowledge transfer/entrepreneurship competitions organised by HKUST each year.

Domain 3: Knowledge transfer and wider engagement**KPI 3 Other societal contribution: number, participant size and diversity of community engagement projects, social service events, art related functions**

Financial Year	2016/17		2017/18	
Total no. of community engagement projects, social service events, art related functions	No. of activities	No. of attendees	No. of activities	No. of attendees
Public lectures	328	46,392	313	29,684
Performance arts	137	217,001	74	36,345
Exhibitions	19	73,202	25	63,102
Public engagement activities	209	234,956	198	651,017
Public, community and social services	72	1,918,770	158	1,533,110
Total	765	2,490,321	768	2,313,258

	2016/17	2017/18
No. of faculty staff engaged as members of external advisory bodies including professional, industry, government, statutory or non-statutory bodies	417 / 610 (68.4%)	442 / 625 (70.7%)

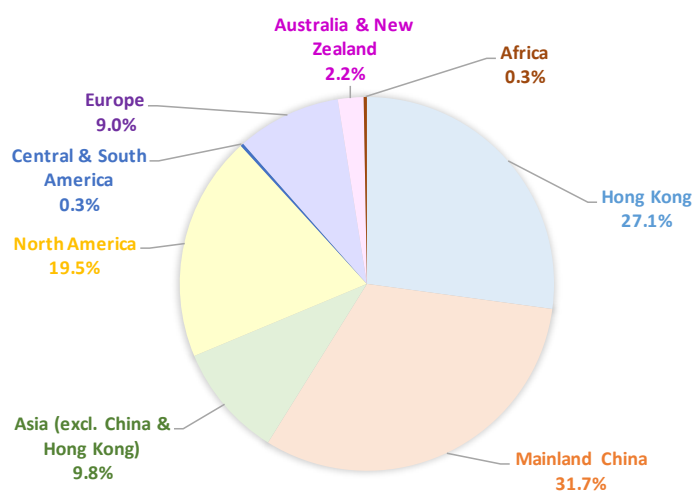
Finding: More than 2.3 million of people benefited from our community/social engagement projects, functions or activities. A high percentage of our faculty staff were engaged in different kinds of external advisory bodies to contribute to the society.

Domain 4: Enhanced internationalisation KPI 1 Faculty profile by nationality

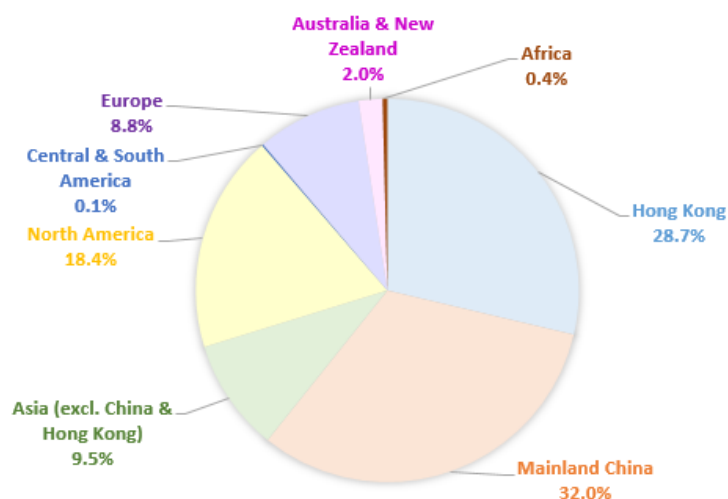
Definition: The nationality of our faculty is based on the nationality self-reported by our faculty members. Faculty includes substantiation-track faculty, teaching-track faculty, research-track faculty and visiting/ adjunct faculty.

Academic Year (census date: 31 October)	2017/18		2018/19	
	Headcount	Percentage	Headcount	Percentage
Hong Kong	196	27.1%	215	28.7%
Mainland China	229	31.7%	240	32.0%
Asia (excl. China & Hong Kong)	71	9.8%	71	9.5%
North America	141	19.5%	138	18.4%
Central & South America	2	0.3%	1	0.1%
Europe	65	9.0%	66	8.8%
Australia & New Zealand	16	2.2%	15	2.0%
Africa	2	0.3%	3	0.4%
Total	722	100%	749	100%

2017/18 NATIONALITY DISTRIBUTION OF FACULTY



2018/19 NATIONALITY DISTRIBUTION OF FACULTY



Finding: Over 70% of our faculty members are non-local, nearly 40% are from outside of HK and Mainland China.

Domain 4: Enhanced internationalisation**KPI 2 Formal joint offering of courses / programs with non-local universities**

Definition: Joint programs/courses offered in the academic year by number of agreements

Type of Collaboration	2016/17	2017/18
Joint Programs	24	31
Joint Courses	12	13
Total	36	44

School	2016/17	2017/18
School of Science	2	5
School of Engineering	10	10
School of Business and Management	4	7
School of Humanities and Social Science	11	13
Interdisciplinary Programs Office	8	8
School of Science/ School of Engineering	1	1
Total	36	44

Study Level	2016/17	2017/18
UG	14	15
TPg	13	18
MPhil	2	3
PhD	5	7
MPhil/PhD	1	0
UG/TPg/PhD	1	1
Total	36	44

Academic Year	2016/17		2017/18	
	No. of agreements	%	No. of agreements	%
China	15	41.7%	18	40.9%
United States	6	16.7%	8	18.2%
France	2	5.6%	3	6.8%
United Kingdom	1	2.8%	3	6.8%
South Korea	2	5.6%	2	4.5%
Japan	2	5.6%	2	4.5%
Taiwan	2	5.6%	2	4.5%
Italy	1	2.8%	2	4.5%
Brazil	1	2.8%	1	2.3%
Germany	1	2.8%	1	2.3%
Iran	1	2.8%	1	2.3%
Switzerland	1	2.8%	1	2.3%
Singapore	1	2.8%	0	-
Total	36	100%	44	100%

Domain 4: Enhanced internationalisation

KPI 3 Substantial global study experience

1) Substantial global study experience on campus

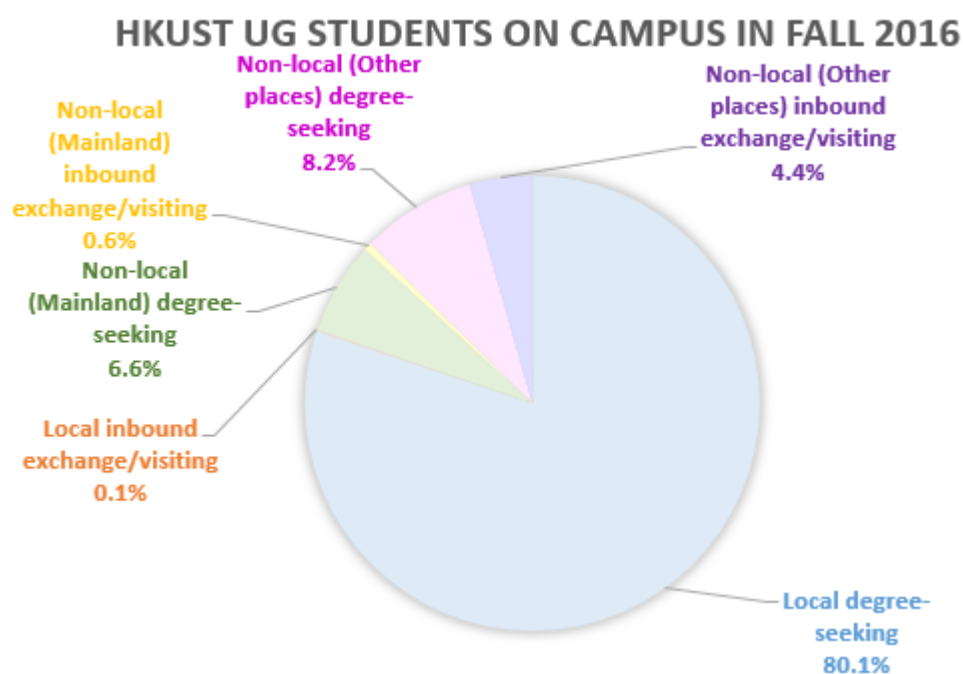
Metric A: Percentage of UG students on campus being non-local

Non-local includes UG degree-seeking and inbound exchange/visiting students from all places.

Metric B: Percentage of UG students on campus being international

International includes UG degree-seeking and inbound exchange/visiting students from places outside of Mainland, Taiwan and Macau.

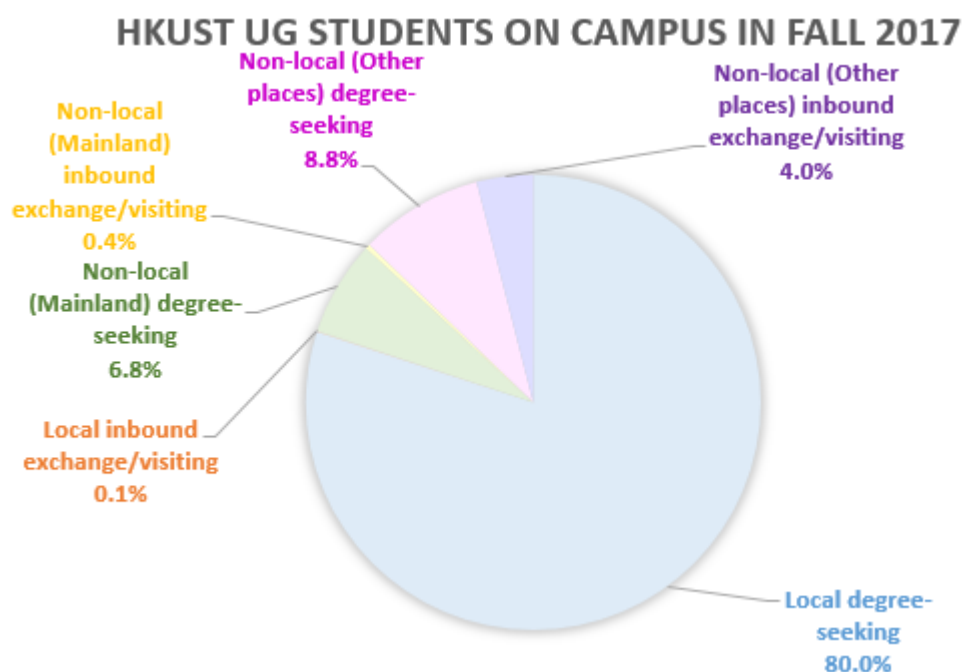
Period: 2016/17 Academic Year



UG student type	No. of students	Metric A	Metric B
Local degree-seeking	7,558		
Local inbound exchange/visiting	9		
Non-local (Mainland) degree-seeking	621	Y	
Non-local (Mainland) inbound exchange/visiting	54	Y	
Non-local (Other places) degree-seeking	771	Y	Y
Non-local (Other places) inbound exchange/visiting	417	Y	Y
Total	9,430	1,863 (19.8%)	1,188 (12.6%)

Notes: Data as of 30 Sept 2016. Students studying off-campus such as exchange-out or on study leave are excluded, students of World Bachelor of Business and double degree students in self-financed year on HKUST campus are included.

Period: 2017/18 Academic Year



UG student type	No. of students	Metric A	Metric B
Local degree-seeking	7,761		
Local inbound exchange/visiting	6		
Non-local (Mainland) degree-seeking	656	Y	
Non-local (Mainland) inbound exchange/visiting	34	Y	
Non-local (Other places) degree-seeking	854	Y	Y
Non-local (Other places) inbound exchange/visiting	389	Y	Y
Total	9,700	1,933 (19.9%)	1,243 (12.8%)

Notes: Data as of 30 Sept 2017. Students studying off-campus such as exchange-out or on study leave are excluded, students of World Bachelor of Business and double degree students in self-financed year on HKUST campus are included.

Finding: HKUST's on-campus UG students being non-local and international are around 20% and 13% respectively.

2) Substantial global study experiences abroad

Metric C: Percentage of UG enrolment who completed a substantial study experience abroad in an academic year.

Definition: Substantial study experience includes:

- “Student exchange”: Follow UGC’s definition: study at an institution outside of Hong Kong under a reciprocal exchange agreement for at least one term (for summer term: at least 4 weeks)
- “One-way study/research abroad programs”: Programs at universities that last 3 weeks or above; participation is nominated/endorsed/registered with HKUST; programs are credit-bearing and/or with academic transcripts issued by the host university.

Note: In addition to reciprocal student exchange participation, one-way programs are included. Acquiring a substantial study experience at some universities is possible only on a one-way arrangement as it may not be possible to arrange reciprocal arrangements for issues controlled at the host university. These are nonetheless substantial study experiences that are beneficial to the global learning for HKUST students.

Experience type	No. of students with participation in programs with 3 weeks’ duration or above	
	2016/17	2017/18
1 - Exchange	913	978
2 - Visiting	373	299
3 - Internship	330	388
4 - Study/Field trip	20	55
5 - Experiential learning experience	73	51
6 - International events	0	0
7 - Others	2	0
Grand Total	1,711	1,771
Unique students	1,619 <i>(16.9% of 9,600 UG enrolment)</i>	1,659 <i>(16.8% of 9,894 UG enrolment)</i>

Note: UG enrolment figure extracted from CDCF Table 20.6B.

Finding: In 2016/17 and 2017/18, around 17% of our entire UG population benefited from various types of substantial global study experiences abroad.

Metric D: Percentage of UG graduates with outgoing exchange experience.

Academic year	2014/2015	2015/2016	2016/2017	2017/18
Number of UG graduates	2,187	2,203	2,130	2,270
Number of UG with outgoing exchange experience	762 (35%)	845 (38%)	826 (39%)	869 (38.3%)

Note: Data extracted from CDCF Table 28.1.

Domain 4: Enhanced internationalisation

KPI 4 Global presence

Metric A: No. of international alliances that HKUST holds membership in.

Period: from 2016/17 Academic Year

International Alliances

As part of our internationalisation and global engagement endeavours, HKUST holds membership in many international alliances to build the network and mechanism required to support teaching and research collaboration between HKUST and world class universities/ organisations. Here are some examples:

University level

1. The Association of East Asian Research Universities (AEARU)
2. Association of Pacific Rim Universities (APRU)
3. World Economic Forum (WEF) - The Global University Leaders Forum (GULF)
4. The Association of Southeast Asian Institutions of Higher Learning (ASAIHL)
5. International Association of Universities (IAU)
6. HKUST-MIT Research Alliance Consortium
7. Asian Science and Technology Pioneering Institutes of Research and Education (ASPIRE League)
8. Asian Universities Alliance (AUA)
9. Association of Sino-Russian Technical Universities (ASRTU)
10. C9 League + HK3
11. Guangdong-Hong Kong-Macau University Alliance
12. University Alliance of Belt & Road (*from 2017/18 Academic Year*)
13. Innovation & Entrepreneurship Education Alliance of China (*from 2017/18 Academic Year*)
14. Beijing-Hong Kong University Alliance (BHUA) (*from 2017/18 Academic Year*)
15. Shanghai-Hong Kong University Alliance (SHUA) (*from 2017/18 Academic Year*)
16. University Consortium of the 21st Century Maritime Silk Road (*from 2017/18 Academic Year*)

School level

School of Engineering:

1. Asia-Oceania Top University League on Engineering (AOTULE)
2. Asian Deans' Forum (*from 2017/18 Academic Year*)
3. The Global Engineering Deans Council (GEDC) (*from 2017/18 Academic Year*)

School of Business:

1. CEMS - The Global Alliance in Management Education
2. Association to Advance Collegiate Schools of Business (AACSB)
3. Association of Asia-Pacific Business Schools (AAPBS)
4. Council for Advancement and Support of Education (CASE)
5. European Foundation for Management Development (EFMD)
6. Graduate Management Admission Council (GMAC)

School of Business (cont.):

7. Global Network for Advanced Management (GNAM)
8. Kellogg Executive MBA Global Network
9. Partnership in International Management (PIM)
10. The International University Consortium for Executive Education (UNICON)
11. MBA Career Services & Employer Alliance (CSEA) (*from 2017/18 Academic Year*)
12. Information Systems Audit and Control Association (ISACA) (*from 2017/18 Academic Year*)
13. CISCO Networking Academy (*from 2017/18 Academic Year*)

Interdisciplinary Programs Office:

1. Global Consortium for Sustainability Outcomes
2. Individualized Major Programs Network (*from 2017/18 Academic Year*)
3. Asia Pacific Public Policy Network (*from 2017/18 Academic Year*)
4. Network of Schools of Public Policy, Affairs, and Administration (*from 2017/18 Academic Year*)

Institute for Advanced Study

1. ATLAS Experiment (*from 2017/18 Academic Year*)

Metric B: HKUST's performance in world university rankings.

World University Rankings (WUR)	Position in 2017/18	Position in 2018/19
QS - World University Rankings	30	37
QS - Asia University Rankings	3	7
QS - Top 50 Under 50	2	2
Times Higher Education - World University Rankings	44	41
Times Higher Education - Young University Rankings	2	1
Trendence/Emerging Global University Employability Ranking	12	16

By Subject Rankings	Position in 2017/18	Position in 2018/19
Financial Times - Global EMBA Rankings	1	1
Financial Times - Global MBA Rankings	15	14
Times Higher Education - Business & Economics	14	14
QS - Chemistry	27	23
QS - Engineering and Technology	15	17
Times Higher Education - Engineering and Technology	19	18
QS WUR in Material Science	23	22
QS WUR in Social Sciences & Management	27	24

Finding: In more than two decades, HKUST has rapidly risen in the global academic arena and is consistently rated high in prestigious rankings worldwide. Our continuing success in global rankings reinforces our standing as a leading academic force.

Domain 5: Financial health and institutional sustainability**KPI 1 Approved capital commitment to be funded by non-UGC resources**

(Capital project over HK\$30M only)

Consolidated level

Actual	<u>2014/15</u> HK\$'M	<u>2015/16</u> HK\$'M	<u>2016/17</u> HK\$'M	<u>2017/18</u> HK\$'M
Approved capital commitment to be funded by non-UGC resources	979	1,160	1,232	2,215

Projection	<u>2018/19</u> HK\$'M	<u>2019/20</u> HK\$'M	<u>2020/21</u> HK\$'M	<u>2021/22</u> HK\$'M
Approved capital commitment to be funded by non-UGC resources	1,976	1,581	1,000	1,000

University level

Actual	<u>2014/15</u> HK\$'M	<u>2015/16</u> HK\$'M	<u>2016/17</u> HK\$'M	<u>2017/18</u> HK\$'M
Approved capital commitment to be funded by non-UGC resources	979	1,160	1,232	2,215

Projection	<u>2018/19</u> HK\$'M	<u>2019/20</u> HK\$'M	<u>2020/21</u> HK\$'M	<u>2021/22</u> HK\$'M
Approved capital commitment to be funded by non-UGC resources	1,976	1,581	1,000	1,000

Finding: The University continues to fund a significant proportion of its large capital expenditure programme, with capital commitment of around HK\$1-2 billion per annum.

Domain 5: Financial health and institutional sustainability
KPI 2 Value of working capital pool / operating cash flow ratio

Consolidated level

Actual	2014/15	2015/16	2016/17	2017/18
Value of working capital pool/ operating cash flow ratio	4.3	2.8	18.8	11.3

Projection	2018/19	2019/20	2020/21	2021/22
Value of working capital pool/ operating cash flow ratio	3.6	1.6	32.9	38.4

University level

Actual	2014/15	2015/16	2016/17	2017/18
Value of working capital pool/ operating cash flow ratio	3.5	2.7	26.9	11.7

Projection	2018/19	2019/20	2020/21	2021/22
Value of working capital pool/ operating cash flow ratio	3.3	1.5	39.3	42.6

Findings: In years when operating cash flow is expected to be low, the University's internal liquidity policy results in this ratio being around 20. The low ratios in 2014/15 and 2015/16 were due to higher operating cash inflow in those years.

Domain 5: Financial health and institutional sustainability
KPI 3 Dollar value of uncommitted UGC and non-UGC reserves

Consolidated level

Actual	<u>2014/15</u> HK\$'M	<u>2015/16</u> HK\$'M	<u>2016/17</u> HK\$'M	<u>2017/18</u> HK\$'M
Uncommitted UGC reserves	1,587	2,188	2,378	1,450
Uncommitted non-UGC reserves	1,143	972	1,625	1,056

Projection	<u>2018/19</u> HK\$'M	<u>2019/20</u> HK\$'M	<u>2020/21</u> HK\$'M	<u>2021/22</u> HK\$'M
Uncommitted UGC reserves	1,530	2,374	2,868	3,166
Uncommitted non-UGC reserves	1,325	2,029	2,251	1,964

University level

Actual	<u>2014/15</u> HK\$'M	<u>2015/16</u> HK\$'M	<u>2016/17</u> HK\$'M	<u>2017/18</u> HK\$'M
Uncommitted UGC reserves	1,587	2,188	2,378	1,450
Uncommitted non-UGC reserves	1,166	970	1,599	1,015

Projection	<u>2018/19</u> HK\$'M	<u>2019/20</u> HK\$'M	<u>2020/21</u> HK\$'M	<u>2021/22</u> HK\$'M
Uncommitted UGC reserves	1,530	2,374	2,868	3,166
Uncommitted non-UGC reserves	1,274	1,977	2,205	1,906

Finding: The uncommitted non-UGC reserve (“Free Reserve”) remains healthy at HK\$1-2 billion during the forecast period and in line with recent history.