

# World University Rankings® **Asia 2019**

The Top 250 Universities in Asia 2019





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# QS World University Rankings® Asia 2019: Welcome



Dennis Yu Rankings Analyst QS Quacquarelli Symonds

Welcome to this, the 10th edition of the QS Asia University Rankings, which was first launched back in 2009. This new 2019 edition provides independent comparative data for - the first time - the top 500 institutions in Asia.

Asian universities are increasingly encroaching on the top universities globally, with two institutions just outside the top ten, and 12 in the top 50. This means that the QS Asia University Rankings 2019 is a more competitive landscape than ever before.

For this edition of the ranking, we have taken the decision to alter the methodology by introducing a new indicator. This new indicator was first trialled in the QS Latin America University Rankings 2019 and has now been rolled out to all our other regional rankings (except BRICS). International Research Network combines robust research data from Elsevier's Scopus database with an international

dimension, assessing the international diversity of institutions with which the university has collaborated in its research. The weighting alterations that we have made to accommodate this new dimension will be covered in the Methodology section of this supplement, and we believe that this new indicator is a welcome addition to our regional methodologies.

The other notable development in the QS Asia University Ranking 2019 is that it forms the parent ranking for two new locational rankings - the QS Japan University Rankings 2019 and the QS South Korea University Rankings 2019. These new rankings enumerate the top 75 universities from Japan and the top 50 from South Korea, listing them as their own separate ranking so that institutions in these areas can more easily view and benchmark themselves directly with their local competitors.

We hope you enjoy the QS ASIA University Rankings 2019.



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# QS World University Rankings Asia 2019: Methodology



For the QS Asia University Rankings 2019 we have added a new indicator and, therefore, a revised methodology for this tenth edition.

This methodology differs from that used for the QS World University Rankings®. The unique approach of the regional rankings is based on feedback collected from the region, the expert identification of those factors of most importance to the region, and the availability of data. Like QS's other rankings, it examines university performance according to the four pillars of teaching, research, employability and internationalization. This latest edition involves a new indicator that combines elements of both research and internationalization into one by examining the diversity of an institution's international research collaborations.

Unique to this edition, the QS Asia University Ranking also forms the parent ranking for two new locational rankings – Japan and South Korea. This means that the methodology behind these additional rankings tables is that which is used in the QS Asia University Rankings, but provides a more immediately-accessible means by which universities and students can benchmark themselves against their national peers.

From this edition, eleven indicators are used to form this regional ranking of universities:

#### **INDICATORS**

#### **Global Reputation**

#### **ACADEMIC REPUTATION 30%**

Results are taken from the annual survey conducted by QS, which is designed to evaluate the perceptions of academics from around the world regarding the best institutions in terms of research. For this 2019 edition, over 83,000 responses were recorded globally.

#### **EMPLOYER REPUTATION 20%**

Taken from the annual QS Employer Survey, which aims to gather the views of employers around the world regarding the relative abilities of institutions to provide successful, employable graduates. For the 2019 edition, close to 43,000 responses were analysed.

## Research

## CITATIONS PER PAPERS 10% / PAPERS PER FACULTY 5%

For the regional rankings we take a slightly different approach to that seen in QS World University Rankings®. We use two indicators to evaluate the

dual dimensions of productivity in the form of Papers per Faculty (which has this year been reduced from 10% to 5% in order to accommodate International Research Network) and impact in the shape of Citations per Paper. As with the QS World University Rankings®, we are using a publications window of papers published between 2012-2016 and a six year citation window from 2012-2017.

These indicators are calculated using data acquired from Elsevier's Scopus database. Furthermore, only those institutions producing more than 150 papers in the last five years are evaluated in the citations per faculty indicator. The rest of the data is treated in the same way as for the QS World University Rankings®: self-citations are excluded from the analysis, the paper and citations data are normalized, ensuring the citations achieved in each of the five broad faculty areas are weighted equally and a variable affiliation cap is in place to exclude any anomalous results where a paper has an extraordinarily high number of affiliations for its field.

### INTERNATIONAL **RESEARCH NETWORK 10% NEW**

Using Scopus data and the same publishing window as the rest of the research indicators, this new indicator first appeared in QS's Latin America

University Rankings and has since been incorporated into the other regional exercises. The indicator uses the Margalef Index to assess the degree of international diversity in terms of research collaboration for each evaluated institution. This indicator uniquely combines research with internationalization to offer insight into the extent a university's research activities are global.

#### **Teaching Commitment**

#### STUDENT TO FACULTY RATIO 10%

This is the ratio between the number of academic staff and number of students. A higher number of teachers per student is an indirect indicator of the commitment of that institution to high-quality teaching. The weighting for this indicator has been reduced from 15% in previous editions to 10% to accommodate the International Research Network indicator.

#### STAFF WITH PHD 5%

The Staff with PhD is a proxy measure for teaching quality. It reflects a university's commitment to ensuring that they are acquiring faculty members with expertise in their field – a commitment that can be expected to lead to improved research and teaching alike.

These two indicators in tandem measure a university's commitment to facilitating high-quality interaction between teachers and students.

#### Internationalization

#### **INTERNATIONAL FACULTY 2.5%**

The international Faculty Index simply measures the proportion of faculty members that are international. It is a proxy measure for how internationally-attractive the university is to academic staff. Universities based in locations known for attracting high proportions of expatriates perform well here, such as those in Hong Kong and Singapore

#### **INTERNATIONAL STUDENTS 2.5%**

Similar in nature to the International Faculty Index, the International Students Index is based on the proportion of students that are international. It is a proxy measure for how internationally attractive the university is to students. Attracting international faculty and students can be challenging for institutions that are more nationally or regionally focused.

#### **INBOUND EXCHANGE STUDENTS 2.5%**

# OUTBOUND EXCHANGE STUDENTS 2.5%

Uniquely among QS' rankings, the proportion of inbound and outbound exchange students is measured, assessing via proxy the quality of a university's international outreach attempts.

Both metrics account for 2.5% of an institution's final score. In the same vein, QS note that places at the world's top universities are coveted by academics and students alike across the globe, and that internationalisation allows a university to choose between the world's best.



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# QS World University Rankings Asia 2019: Overview



#### Martin Ince

Chair of the Global Academic Advisory Board of the QS World University Rankings and writer and journalist in the fields of higher education and science

Asia's top universities are often big players in small jurisdictions. The National University of Singapore and Nanyang Technological University, also in Singapore, take first and equal third place respectively in the 2019 World University Rankings for Asia, while second spot goes to the University of Hong Kong. Also in the top 10 are Hong Kong University of Science and Technology at seventh, and the Chinese University of Hong Kong in ninth place.

These findings suggest that historic links to the English-speaking world are still a bonus for Asian institutions. However, a look at the upper reaches of this ranking shows too that China, Korea and Japan take continue to dominate elite higher education in Asia, occupying 14 of the top 20 positions.

There are signs too that China is now the most influential of these three dominant nations. The three mainland Chinese universities in this year's top 10 are all better placed than they were a year ago. They are Tsinghua, up three places to equal third; Peking, up four places to fifth, and Fudan, one place higher at sixth. The nine mainland Chinese institutions in the top 50 are each three places higher than last year

on average, even allowing for the fiveplace fall experienced by the University of Science and Technology of China, now in 28th position.

These rankings have been compiled on the basis of eleven criteria, including some shared with the main QS World University Rankings. These include academic and employer opinion, faculty/student ratio, citations, and international faculty and student proportions.

For the Asia Ranking, these measures are supplemented by several additional measures. These include international exchange students, an important part of the student experience in Asia as well as being a significant means by which universities internationalise their campuses. We also count faculty with a PhD, and the volume of academic papers they produce. In Europe or the US, both a doctorate and a lengthy publishing record are standard academic achievements, but in Asia they are still a mark of distinction. We also give extra credit for publications with international co-authors, a key way in which universities can demonstrate and enhance their research standing.



#### Road to success

To succeed in this ranking, it is important not to have any significant area of weakness. The National University of Singapore, in first place, has virtually perfect scores in all our measures, but is only 20th in Asia for faculty/student ratio, and 103rd for academic paper production. However, it is esteemed by employers and academics alike, and publishes wellcited papers, often with international collaborators. NUS is also a magnet for international faculty and for both longstay and exchange students.

This analysis also indicates what mainland Chinese universities need to do to if they are to rise even higher in this ranking. Tsinghua, Peking and Fudan do well in our surveys of academics and employers in the region and around the world. But their faculty members are comparatively less productive as far as research papers are concerned, and often lack a PhD. Nor are they as attractive as Hong Kong or Singapore to international students or academics.

Anyone reading these rankings is certain to be impressed by the diversity they reveal. The 500 institutions we list are in 17 countries and territories, ranging alphabetically from Bangladesh to Vietnam. Any of them might be the place for an aspiring learner to have a life-changing educational experience.

However, it remains true that the most-represented nations in the 500 are ones that one might expect to be prominently-featured: mainland China with 111 entries, Japan with 89, India with 75 and Korea with 57, occupying, cumulatively,333 of the 500 available positions.

To further regional understanding of the strengths of Asian higher education, we are now publishing for the first time a national ranking of Korean and of Japanese universities, using the same indicators as those that contribute to our overall Asia Ranking. It shows that Tokyo and Kyoto universities continue to dominate the Japanese higher education world, mainly on the basis of their reputation among academics and employers. They are also 11 and 14 respectively in the overall Asia Ranking.

Our other indicators are less kind to the Japanese system, which is poor at bringing in globally-mobile scholars, whether a faculty or as students. Tokyo, for example, is 153rd in Asia for international faculty. This problem is recognised by universities and by government. It will need to be tackled if the nation's universities are to survive

the severe demographic squeeze facing them as the number of Japanese school-leavers falls.

The same demographic crisis is also gripping Korean universities. KAIST, eighth in Asia, is top of our Korean ranking and Seoul National University, 10th overall, is in second place. KAIST beats national champion SNU on several measures of research excellence, including PhDs, paper production and citations. On faculty with a PhD, for example, SNU is a lowly 103rd in Asia. These national rankings are a new QS output and we welcome your feedback.



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	2019 RANK	ASIA	Location	Size	Focus	Res.	Age	Status	Academic Reputation	Employer Reputation	Faculty Student	Staff with PhD	Papers per Faculty	Citations per Paper	International Faculty	International Students	Inbound Exchange	Outbound Exchange	International Research Network	Overall
<b>1</b>	1	National University Of Singapore	SG	XL	FC	VH	5	Α	100	100	97.2	100	66.2	100	100	99.8	100	100	100	100
<b>↑</b>		University Of Hong Kong	HK	L	FC	VH	5	A	100	98.2	95.3	96.4	59.6	97.7	100	100	100	100	99.8	98.7
•	3	Nanyang Technological University	SG	L	FC	VH	3	Α	99.5	99.6	98.6	55.1	68.8	100	100	99.9	100	100	100	97.8
<b>1</b>	3	Tsinghua University	CN	XL	FC	VH	5	Α	100	100	97.1	94.2	92.1	93.5	98	79	55.9	76.6	97.6	97.8
<b>1</b>	5	Peking University	CN	XL	FC	VH	5	Α	100	100	77.3	85.4	81	97.5	99.2	95.6	74.9	99.6	99.7	96.9
<b>1</b>	6	Fudan University	CN	XL	FC	VH	5	Α	98.3	99.8	92.3	72.5	62.7	99.6	100	88.6	92.2	99.7	93.2	96.1
Ψ	7	The Hong Kong University Of Science And Technology	HK	М	CO	VH	3	Α	98.4	95.2	75.3	91.1	81.5	100	100	100	100	100	94.3	96
Ψ	8	Korea Advanced Institute Of Science And Technology	KR	М	CO	VH	3	Α	98.3	96.9	89.9	100	99	99.2	70.2	38.8	86.8	74.7	91.1	95.5
<b>↑</b>		The Chinese University Of Hong Kong	HK	L	FC	VH	4	A	99	90.8	87.3	77.2	60.2	98.4	100	100	100	97.2	99.2	95
<b>1</b>		Seoul National University The University Of Tokyo	KR	L L	FC FC	VH VH	4 5	A A	99.9 100	99.6 100	95.1 98.3	85.1 90.4	81.9 92.4	95.7 88.2	61.9 37.2	51.1 72	63.1 43	39.8 20.6	95.9 99.9	94.2
<u>ተ</u>		The University Of Tokyo Korea University	JP KR	L	FC	VH	5	В	92.7	98.1	98.3	97.8	52.2	93.5	49.9	90.4	99.8	98.6	99.9	93.9
ጥ <b>ተ</b>		Zhejiang University	CN	XL	FC	VH	5	A	92.1	97.9	72.2	84.1	89.2	90.4	100	84.8	100	100	99.3	93.5
·		Kyoto University	JΡ	L	FC	VH	5	Α	100	99.8	98.9	95.6	81.9	87.5	51.1	61.2	31.5	11.4	99.9	93.2
<b>1</b>		Sungkyunkwan University	KR	L	FC	VH	5	В	85.5	97.5	95.4	99.9	54.2	98.3	59.7	81.5	100	97.9	93	91.8
<b>4</b>	16	Osaka University	JP	L	FC	VH	4	Α	97.5	95.5	91.1	88.9	86.5	73.7	65.4	55	43.1	78.7	98.9	91.3
<b>1</b>	17	Yonsei University	KR	L	FC	VH	5	В	88.8	97.7	94.2	91.9	56	87.6	50.7	86.8	100	95.7	91.7	91.1
<b>\</b>	18	Tokyo Institute Of Technology	JP	М	СО	VH	5	Α	96	97.7	96.6	95.6	95.7	61.3	77.4	76.4	65.2	16	96.3	91
1		Shanghai Jiao Tong University	CN	XL	FC	VH	5	Α	97	99.8	51.6	77.4	98.4	85.1	99.8	55.3	60.2	80.3	99.3	90.6
<b>↑</b>		Universiti Malaya	MY	L	FC	VH	5	A	87	88.5	98	80.5	66.3	79.7	97.1	97.8	100	100	100	90.6
<b>+</b>		City University Of Hong Kong National Taiwan University	HK TW	M XL	CO FC	VH VH	3 4	A A	85.9 99.5	73.3 95	96.8 52.5	80.2 90.6	87 88.5	99.8 91	100 49.1	100 64.3	100 82.5	100 50.1	98.5 99	90.1
<b>+</b>		Tohoku University	JΡ	L	FC	VH	5	A	93.6	92.5	99.7	93.6	82.8	69.8	43.5	61.1	59.9	11.5	98.6	88.4
•		Pohang University Of Science And Technology	KR	S	FO	VH	3	В	70.3	82.1	100	100	99.4	99.8	92.6	22.3	98.2	99.8	80	85
<b>1</b>	25	Hanyang University	KR	L	FC	VH	4	В	71.2	92.6	89.3	93	50.7	89.3	72.2	87.1	99	99.6	93.4	84.9
<b>1</b>	26	Nagoya University	JP	L	FC	VH	5	Α	89.5	81.1	98.9	86.1	70.9	69.4	52.2	66.6	51.2	14.5	97.5	83.8
<b>→</b>		Nanjing University	CN	XL	FC	VH	5	Α	87.9	75.3	35.3	90.5	92.9	98.5	99.3	56.9	97.5	91.8	95.2	83.8
Ψ		University Of Science And Technology Of China	CN	L	СО	VH	4	Α	84.5	69.7	86	88.7	98.1	99.7	47.2	24.4	43.9	89.6	92.1	83.2
<b>^</b>		Hokkaido University	JP	L	FC	VH	5	A	85.9	88.8	94.8	94.5	69.4	66.9	56.2	52.6	20.5	7.7	98.1	82.8
<b>+</b>	30 31	Kyushu University The Hong Kong Polytechnic University	JP HK	L L	FC CO	VH VH	5 2	A A	85.4 87.6	89.4 73.4	97.4 78.4	86.5 11.2	69.6 57.6	64.5 99	51.7 100	67.5 99.7	9.8 84.3	10 70.1	98.4 94	82.4 82
<b>▼</b>	32	National Tsing Hua University	TW	L	СО	VH	4	A	76.5	80.5	34.8	89.8	94.4	97.7	79.5	60.4	91.4	38.9	81.8	78
<b>^</b>		Indian Institute Of Technology Bombay	IN	M	СО	VH	4	Α	83.6	95.9	51.4	95.2	91.4	65.6	12.1	5.2	12	6.3	85.3	76.2
<b>1</b>		Universiti Putra Malaysia	MY	L	FC	VH	3	Α	68.4	67.8	80.3	88	57.4	44.5	96.7	99.5	100	98.8	99.4	75.1
<b>1</b>	34	Wuhan University	CN	XL	FC	VH	5	Α	68.8	82.3	34.3	90.3	71	82.5	96.8	47	55	97.5	94.1	75.1
<b>1</b>		Waseda University	JP	XL	CO	VH	5	В	86.3	98.4	44	10.3	21	56.4	76.2	84.7	53.7	75.2	89.9	74.9
Ψ		Kyung Hee University	KR	L	FC	VH	4	В	50.1	70.9	93.3	97.8	31.8	92.6	46.4	83.4	100	100	95	73.5
Ψ.		National Cheng Kung University	TW	L	FC	VH	4	Α	69.2	71.1	57.1	89.3	79.5	74.8	50	79.3	60.5	58.8	91.9	73.5
<b>1</b>		Sun Yat-Sen University	CN	XL	FC	VH	4	A	66.4	76.2	54.2	93.4	44.9	95.6	55.2	37	28.9	82.3	98.1	73.4
<u>ተ</u>		Indian Institute Of Technology Delhi Universiti Kebangsaan Malaysia	IN MY	M L	CO FC	VH VH	4 3	A A	77.7 74.5	92.9 68.7	29.4 90.9	100 31.6	99.7 51.7	67.7 28.2	7.8 91	4.4 88	5.9 79.4	8.8 94.8	85.7 97.8	72.3 72.2
т •		Keio University	JP	XL	FC	VH	5	В	82.5	97.1	76.8	1.8	26.7	50.8	40.4	42.8	43.8	27.9	83.3	72.2
<b>*</b>		Universiti Sains Malaysia	MY	L	FC	VH	3	A	73.6	74.8	77.6	30.7	51.1	55	83.7	83.7	38.6	5.3	99.6	71
<u>.</u>		Chulalongkorn University	TH	XL	FC	н	5	Α	88	81	37.7	70.8	23.7	50.5	46.6	12.8	39.3	37.1	97	70.6
•		National Chiao Tung University	TW	М	СО	VH	5	Α	54.5	66.5	65.8	86.6	95	76.1	86.3	91.5	88.6	83.8	73.3	70.4
•	46	University Of Tsukuba	JP	L	FC	VH	3	Α	65.8	44.4	82	92.8	59.7	55.7	53.2	84	70.1	84.2	94.9	68.1
1		Universiti Teknologi Malaysia	MY	L	СО	VH	3	Α	55.2	68.8	93.7	21.4	60.8	43.2	78.4	95.8	61.2	73.4	99.5	67.1
<b>→</b>		Indian Institute Of Technology Madras	IN	М	CO	VH	4	A	64.2	81.7	39.9	100	96.5	56.1	13.1	4	37.6	34.3	74.9	66
Ψ.		National Taiwan University Of Science And Technology	TW	М	FO	VH	3	A	49.4	56.9	87.6	23.8	66.8	84.5	50.6	82	98.5	59.2	74.9	64
<b>*</b>		Ewha Womans University	KR	L	FC	HI	5	В	45	44.8	94	97.7	21.5	98	32.1	91.2	99.4	97.7	70.1	63.9

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	2019 RANK	ASIA	Location	Size	Focus	Res.	Age	Status	Academic Reputation	Employer Reputation	Faculty Student	Staff with PhD	Papers per Faculty	Citations per Paper	International Faculty	International Students	Inbound Exchange	Outbound Exchange	International Research Network	Overall
<b>1</b>	50	Indian Institute Of Science Bangalore	IN	S	SP	VH	5	Α	65.2	41.2	69.7	100	100	84.3	2.8	6.2			92.3	63.9
· 个		Mahidol University	TH	L	FC	Н	4	Α	66	56.6	63	89.7	21.9	60.3	45.2	22.7	72.3	39.4	87.1	63.5
<b>1</b>	53	Indian Institute Of Technology Kharagpur	IN	М	FO	VH	4	Α	54.2	80.5	24.8	99.5	98.3	73.1	30.1	1.2	2	15.2	85.5	63
Ψ	54	Tongji University	CN	XL	FC	VH	5	Α	58.8	37.1	34.8	60	91.4	62.5	100	76.4	98.4	99.7	96	62.6
<b>→</b>		Xi'an Jiaotong University	CN	XL	FC	VH	5	Α	50.3	59.2	61	25.1	84.4	69.1	57.4	38.4	52.5	84	95	61.9
Ψ.		Beijing Normal University	CN	L	CO	VH	5	Α .	69.3	38.3	44.6	26.1	73.1	80.9	74.5	81.3	15.7	25.1	96	61.7
<b>+</b>	57 58	University Of Indonesia Renmin (People's) University Of China	ID CN	XL L	FC FO	MD VH	5 4	A A	67.3 53.5	83.7 66.9	62.4 46.3	2.9 88.8	5.3 13.2	11 82.6	100 32.7	22.8 25.5	97.3 28.1	96.3 52.5	70.4 77.5	60.8 59.8
ተ ተ	59	Kobe University	JP	L	FC	VH	4	A	53.6	64.8	79.2	58	43.5	49	32.4	35.6	30.4	16.3	77.5 87.6	59.7
<b>+</b>		Sogang University	KR	M	СО	VH	4	В	42	74.2	64.7	74.5	34.5	70.7	41	53.5	91	79.5	52.4	59.5
•		Indian Institute Of Technology Kanpur	IN	М	СО	VH	4	Α	62.7	70.6	23.7	100	99.6	54.8	4.3	3.1	7	1.8	63.8	58.7
<b>1</b>	62	University Of Delhi	IN	L	FC	HI	4	Α	64.6	83.7	18.7	34.9	44.8	57.7	18.9	6.3	5.4	3.3	88.7	58.6
1	63	National Central University	TW	М	СО	VH	4	Α	47.5	42	46	100	80.3	60.7	60.8	67.6	80.4	26.4	81.9	57.5
1		Huazhong University Of Science And Technology	CN	XL	FC	VH	4	Α	43.4	54.4	24.2	78.4	88.7	84.3	39.6	32.2	13	60.9	94.7	57.4
Ψ.		Hong Kong Baptist University	HK	M	FC	VH	2	A	36.3	37.2	53.6	45.6	55.2	99.7	100	100	87	90.9	76.1	56.9
Λ •	66 67	Nankai University National Taiwan Normal University	CN TW	L M	FC CO	VH VH	4	A A	50.5 53.9	23 31.9	45 88.9	91.4 65.2	59.2 25.1	99.9 67.8	73.2 49.2	35.5 99.3	31.7 98.9	85 68.7	79.9 43.9	56.5 56.1
<b>+</b>		National Sun Yat-Sen University	TW	M	co	VH	3	A	49.5	43.3	40.9	99.3	88.1	61.1	53.6	34.8	99.9	39.6	57	55.6
*		Chung-Ang University	KR	L	FC	НІ	5	В	31.6	49.5	90	96.7	23.1	71.1	58.2	80.7	93.6	96.6	44.4	55.2
Ψ	70	Harbin Institute Of Technology	CN	L	FO	VH	4	Α	47.3	26.6	69.6	77.4	97.2	63.4	30.9	40.1	16.7	34.5	92.7	55
Ψ		Hiroshima University	JP	L	FC	VH	4	Α	51.2	32	93	50.5	43.4	57.8	38.3	57.7	10.9	4.8	96.1	55
1		University Of The Philippines	PH	XL	FC	MD	5	Α	60.6	82.5	67.9	1	5.3	26	3.7	3.5	4.2	3.8	88.2	54.7
Ψ		Bandung Institute Of Technology	ID	L	CO	HI	4	A	66.7	75.7	52	41.4	16.9	7.8	88.7	9.4	5.5	30	53.7	53.8
<b>↑</b>		Universitas Gadjah Mada	ID CN	XL XL	FC FC	MD VH	4	A A	68.7 50.4	68.8 16.2	48.8 38.6	1.1 61.4	4.3 53.2	7.5 97.3	84.3 25.5	9.1 20.6	84.5 87.7	47.4 88.5	63.4 88.4	53.3 53.1
ተ ተ		Xiamen University Pusan National University	KR	L	FC	VH	4	A	43.5	40.5	54.8	98.9	50.1	63.2	33.9	38.2	24.4	36.4	80.4	52.8
<b>.</b>		Hitotsubashi University	JΡ	М	SP	VH	5	A	46.3	91	45.8	33.2	12.1	37.5	68	75.9	66.1	64.6	17.6	52.3
¥		Singapore Management University	SG	М	SP	Н	2	Α	30.5	58.2	18.4	26.3	31.2	96.3	100	98.6	100	100	60.6	52.2
<b>1</b>	79	Jilin University	CN	XL	FC	VH	4	Α	40.2	35.1	65.9	55.2	42.9	84.3	58.5	12.9	13.7	53.3	85.8	52.1
Ψ	80	Taipei Medical University	TW	M	FO	VH	4	В	24.3	36.3	97.7	93.6	41	71.7	73.6	64.9	99.7	99.8	38.6	51.5
1	81	East China Normal University	CN	L	СО	VH	4	Α	30.9	14.9	47.8	67.6	45	90.2	92.7	89.8	100	92.3	90.9	51.2
Ψ.		Shanghai University	CN	XL	CO	VH	2	A	53.3	24.7	65.2	57.1	39.9	60.5	82.7	18.2	74.9	6.4	68.5	50.8
<u>ተ</u>		Tianjin University Hufs – Hankuk (Korea) University Of Foreign Studies	CN KR	XL L	CO CO	VH HI	5 4	A B	39 30.2	18 51.3	35.2 92.9	87.1 79.3	93.6 4.8	74.7 37.2	31.2 90.1	22.8 89.6	83 99.9	87.5 100	82.8 29.2	50.2 49.9
<b>▼</b>		National Chengchi University	TW	М	СО	HI	4	A	42.9	54.6	35	98.6	14.6	58.3	53.4	89	99.7	97.9	16.1	49.9
· 个		Indian Institute Of Technology Roorkee	IN	М	FO	VH	5	Α	32	51.1	22.7	100	99.6	79.2		9.2	1.4	4.2	84.5	49.8
<b>1</b>	87	National University Of Sciences And Technology Islamabad	PK	М	СО	VH	3	Α	35.6	74.1	85.7	1.3	25.8	40.6	9.3	16		11.3	80.2	49.4
Ψ	88	Beijing Institute Of Technology	CN	L	FO	VH	4	Α	45.8	21.9	42.6	77.5	90.4	50.7	17.5	32.6	28.5	83.3	72.5	48.1
1		Shandong University	CN	XL	FC	VH	5	Α	38.2	31.8	36.8	52.6	80	77.9	18.5	16.5	39.6	27.6	84.4	47.9
<b>+</b>	90	Sejong University	KR	L	CO	HI	4	В	23.8	56	37.2	57.2	36.3	81.2	56.4	61.9	57.8	64	58	47.6
Ψ	91	Dongguk University	KR	L	FC	HI	5	В	25.2	30	93.6	58.1	18.4	69.2	47.9	83.6	95.2	100	46.3	47.4
<b>Ψ</b>		National Yang Ming University Gwangju Institute Of Science And Technology	TW KR	S S	FC FO	VH VH	3	A A	32.1 24.4	37 11.6	100 52	26.4 100	62.4 100	81.3 95.3	21.4 30.1	30.7 36	19	8.5 99.9	48.7 76.8	47.4 47.1
<b>▼</b>	94	Konkuk University	KR	L	FC	HI	4	В	21	35.8	73.3	66.5	28	70.3	42.6	57	70.1	91.7	67.9	46.8
· 个		Lahore University Of Management Sciences	PK	S	СО	Н	3	В	33.7	79.8	28	38.3	21.2	65.2	27	1.1	5.4	9	61.8	46.5
<u>+</u>		Chiang Mai University	TH	XL	FC	н	4	Α	55.9	43	26.4	67.3	18.3	33.9	12.9	14.7	10.5	7.2	86.2	46.3
Ψ	96	Chonbuk National University	KR	L	FC	VH	4	Α	28.2	15.1	70.9	62.8	38.3	80.7	22.3	31.1	63	87.6	86	46.3
1		University Of Macau	МО	М	FO	VH	3	Α	26.5	20.8	28.7	82.7	68.8	74.8	100	100	30.8	48.1	82.5	46.2
<b>↑</b>		Universiti Teknologi Petronas	MY	M	SP	VH	2	В	22.7	50	39.5	78.5	76.4	16.6	100	92.9	49.8	86.4	68.4	46.1
<b>↑</b>	100	University Of Brunei Darussalam	BN	S	СО	VH	3	Α	25.1	16.1	98.5	60.7	18.3	31.3	100	98.6	100	100	73.3	45.9

<sup>↑</sup> Up◆ Down→ Same\* New







	ASIA	Location	Size	Focus	Res.	Age	Status	Academic Reputation	Employer Reputation	Faculty Student	Staff with PhD	Papers per Faculty	Citations per Paper	International Faculty	International Students	Inbound Exchange	Outbound Exchange	International Research Netv	Overall
4	101 Beihang University	CN	1	со	VH	4	Α	36.9	24.6	43.7	73.7	95.8	40.4	33.9	28.8	27.5	40.2	83.3	45.4
Ţ	102 Tokyo Medical And Dental University	JP	S	FO	VH	4	A	30	17.5	100	90.9	44.9	75.1	9.3	52.3	32	17	48.5	45.3
•	103 Kyungpook National University	KR	L	FC	VH	4	Α	31	37.5	49.5	70.1	39.9	58.5	24.5	22.8	28.8	42.7	82.8	45.2
4	104 Sichuan University	CN	XL	FC	VH	4	Α	40.7	21.9	29.6	57.2	66.3	70.6	42.4	21.9	6.8	31.1	88	45
1	105 National Chung Hsing University	TW	L	CO	VH	4	Α	31.4	31.4	33.6	92.2	59.4	73.4	35.6	32.5	65.9	35.4	53.9	44.5
*	106 University Of Hyderabad	IN	S	FC	VH	3	Α	32	15.7	91.5	99.5	79.7	69.3		3.8	1.1	1.4	54.1	44.2
•	107 Indian Institute Of Technology Guwahati	IN	М	СО	VH	2	Α	31	36.7	35.4	100	95.8	68	3.4	4.4	22.6	8.1	55.4	44.1
•	108 Thammasat University 109 Quaid-l-Azam University	TH PK	XL L	FC CO	MD VH	4	A A	45.1 32.1	58.3 47.5	41.6 4.6	33.2 23.1	7.3 96.4	31.5 66	59.3 10.6	6.3 2.3	52.1 6.5	46.1 6.8	42.1 92.7	43.7 42.9
т •	110 Chiba University	IP.	L	FC	VH	5	A	31.1	16.2	90.8	40.8	41.6	54.2	28.2	25.7	10.5	9.5	88.5	42.9
•	112 Southeast University	CN	XL	FC	VH	5	A	29	10.6	54.8	66.3	84.1	66.7	30.6	27.7	3.4	24.5	89.1	42.4
•	112 University Of Seoul	KR	М	СО	VH	5	Α	30.2	28.4	55.8	82.7	25.9	62.2	26.1	23	81.4	92.8	40.4	42.4
•	114 National Taipei University Of Technology	TW	М	FO	VH	5	Α	21.3	32.7	51	100	68.4	60.1	74.8	65.5	46.6	59.7	27.2	42.2
•	115 Ateneo De Manila University	PH	М	FC	MD	5	В	42.6	68.6	42.4	1	6.2	19.7	15	24.9	47.5	45.6	49.2	42.1
<b>↑</b>	116 Tokyo Metropolitan University	JP	M	CO	VH	4	A	34.5	17.4	39.4	55.3	49.1	69.3	26.6	24.9	81.9	53.5	66.1	42
•	117 East China University Of Science And Technology 118 South China University Of Technology	CN CN	L XL	co	VH VH	4	A A	20.8	11 18.7	37.3 29	61.3 59.4	80.9 77.9	97.9 90.8	12 29.1	9.2 16.3	85.2 5.3	62.8 25.1	75.9 79	41.7 41.4
<b>↑</b>	119 Inha University	KR	L	FC	VH	4	В	15.5	26.6	84.4	10.3	32.2	77.4	26.1	34.1	55.9	93.4	68.4	41.4
Ť	120 University Of Science And Technology Beijing	CN	L	СО	VH	4	A	38.4	17.5	25.6	77.7	97.9	45.1	14.1	18.7	12.1	54.9	69.1	41.1
•	121 Tokyo University Of Agriculture And Technology	JP	М	FO	VH	4	Α	29	15.1	32.1	98.4	96	45.6	14.3	35.2	55.1	24.7	71.9	40.4
•	122 Chonnam National University	KR	L	FC	VH	4	Α	23	13.6	61.5	79.1	39.5	79.3	24.3	28.6	29.9	36.8	66.8	40.1
•	123 Lingnan University (Hong Kong)	HK	S	SP	VH	5	Α	16.9	21.3	38.5	95.4	38.3	76.2	100	88.3	99.9	100	19.8	40
<b>↑</b>	124 University Of Ulsan	KR	L	FC	VH	3	В	14.3	8.7	84.2	68.4	51.7	87.9	14.3	24.7	13.6	27	75.9	39.6
<b>1</b>	124 Vietnam National University, Hanoi	VN CN	XL XL	FO CO	HI VH	3 4	A A	34.2 24.6	42.7 12.1	34 23.2	8.6 73.5	5.1 90.4	59.8 80.2	24.1 31.8	6.9 16.6	60.5 11.9	8.6 26	74.2 81.3	39.6 39.4
<b>↑</b>	<ul><li>126 Dalian University Of Technology</li><li>127 University Of Dhaka</li></ul>	BD	XL	FC	MD	4	A	32.6	62.6	27.5	1.7	6.8	33.1	4.8	1.6	8	3.2	83.5	38.3
Ť	128 Kanazawa University	JP	M	FC	VH	4	A	22.3	10.6	76.9	65.4	45.2	62.8	26.9	26.4	21.5	8.6	69.7	38.1
1	128 Universiti Utara Malaysia	MY	L	SP	VH	3	Α	26.7	41.3	48	62.8	29.5	4.4	87	98.9	97.6	45	29.7	38.1
1	130 Bogor Agricultural University	ID	L	CO	HI	4	Α	38	38.9	36.2	74.3	7.2	8.2	74.5	12.9	51.2	43.2	49.2	37.9
1	130 Kasetsart University	TH	XL	CO	HI	4	Α	47.1	38.9	10.1	39	10.8	31.4	23	4.3	9.5	5.2	75.9	37.9
*	132 Okayama University	JP	L	FC	HI	5	A	22.9	16.1	86.6	46.6	39.3	55.1	33.8	23.1			66.6	37.4
Ψ .l.	133 Tokyo University Of Science 134 University Of Calcutta	JP IN	L	FO CO	VH VH	4 5	B A	26.4 35.9	38.4 33.2	18.3 5.7	48.9 98.9	60.1 76.2	58.3 33.5	43.4 1.5	12.8 1.1	1.8	1.3	59.3 59.4	36.9 36.8
<b>*</b>	135 Comsats Institute Of Information Technology	PK	XL	co	HI	2	A	21	45.8	48.4	1.5	13.3	44.7	6.4	6.2	2.3	1.6	99.1	36.6
<b>1</b>	135 Taylor's University	MY	М	FO	HI	1	C	25.8	55.3	54.9	1.4	9.7	15.5	95.4	99.3	52	63.9	16.9	36.6
•	137 Jadavpur University	IN	М	СО	VH	5	Α	32.2	17.9	31.8	49.7	89	47.6		3.5	2		73.6	36.3
1	137 Universiti Teknologi Mara	MY	XL	CO	VH	4	Α	36.6	57.6	28.8	1.4	21.2	9.3	9.4	6	7.4	11.1	73.3	36.3
•	139 Beijing Jiaotong University	CN	L	CO	VH	5	Α	29.5	17	33.7	67	71.4	25.2	16.1	38.9	12.1	69.4	69.7	36.2
1	140 Nagasaki University	JP	M	CO	VH	4	Α .	15.2	8.4	95.2	58.9	29.9	42.7	27.8	24.3	75.6	82	56.9	36.1
•	141 Kumamoto University	JP KR	M L	FC FC	VH	4	A C	20	9.1 13.1	92 29.1	21.4 56.6	33.8 40.7	49.9 76.1	25.7 72.5	21.9 35.9	51.1 36.7	4.1 95	78.2 56.3	35.9
<b>个</b>	141 Yeungnam University 143 International Islamic University Malaysia	MY	L	FC	HI HI	4 3	A	18.5 30.4	39.4	35.7	4.1	18.9	10.7	72.5 88.5	98.8	36.7 4.6	7.2	70.7	35.9 35.5
<b>+</b>	144 Vietnam National University - Ho Chi Minh City	VN	XL	FO	MD	2	A	41.4	40.4	25	1	2.3	52.3	30.6	2.3	23.3	7.1	47.1	35.4
<b>1</b>	145 China Agricultural University	CN	L	FC	VH	5	Α	22.4	7.1	42.8	70.9	76	54.7	16.7	7.2	2.6	23.8	79.9	35.2
•	146 Ajou University	KR	М	FC	VH	3	В	13.4	16.1	58.9	72.9	50.7	73.2	28.2	32.4	31.9	23.6	48.4	35.1
•	146 Pakistan Institute Of Engineering And Applied Sciences	PK	S	FO	VH	2	Α	16	21	99.2	37.9	71.2	57.8				7.5	40.9	35.1
1	148 Khon Kaen University	TH	XL	FC	HI	4	Α	34.9	23	21.2	52.7	16.8	33.8	35.7	14.1	56	43.2	65.8	35
•	148 Osaka City University	JP	M	FC	HI	5	A	25.9	12.7	82.4	20	34.9	55.6	19.6	23.4	72	4.4	55.1	35
4	148 Soochow University	CN	XL	CO	VH	5	В	12.6	7.8	56.6	20	52.5	98.5	26.7	16.3	10.5	11.8	81.9	35



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Shalini Guleria

Shalini Guleria
Bachelor of Engineering
with Honours

Shalini is one of our many talented, passionate researchers driven to make a difference in the world.

Shalini Guleria's focus is on breast cancer research. She is trying to find a way to develop better detection models for tumour-based cancers. The aim is to find out how to analyse the use of the chemotherapy drug. The goal is to find the right treatment time and dosage to reduce the side-effects and eventually treat each case individually, with cancer cells specific to each patient.



	ASIA ASIA	Location	Size	Focus	Res.	Age	Status	Academic Reputation	Employer Reputation	Faculty Student	Staff with PhD	Papers per Faculty	Citations per Paper	International Faculty	International Students	Inbound Exchange	Outbound Exchange	International Research Network	Overall
<b>1</b>	151 Chungnam National University	KR	L	FC	VH	4	Α	22.7	20.8	47.5	72.1	45.7	47.9	24.9	22.9	7.3	10.9	60.7	34.8
	151 Jinan University (China)	CN	XL	FC	VH	5	Α	11.5	5.7	22.3	50.9	58	76.8	94.6	99.9	35.9	49.1	72.2	34.8
<b>1</b>	153 Hunan University	CN	XL	CO	VH	4	Α	19.4	8.6	18.5	61	66.6	94	20.2	14.9	7.6	25.5	71.1	34.7
1	153 King Mongkut's University Of Technology Thonburi	TH	L	CO	HI	4	Α	27.2	32.5	30.9	24.8	23.1	63.8	42.8	7.8	9.5	8.2	58.3	34.7
Ψ	155 De La Salle University	PH	L	CO	HI	5	В	37	64.5	17.8	1.1	10.1	15.5	7.4	14.9	8.1	8	50.7	34.6
	156 Banaras Hindu University	IN	L	FC	HI	5	Α	25.9	17.6	22.8	60	46.6	60.2	3.5	8.9			83.9	34.3
	156 Chang Gung University	TW	М	FO	VH	3	В	12.3	14.7	84.6	31.7	80.1	76.9	13.7	37.7	4.6	2.7	37.4	34.3
	156 Prince Of Songkla University	TH	XL	FC	HI	4	A	38.4	20.4	20.2	17.3	11.8	46.1	22.9	6.8	13.8	43.2	77.4	34.3
	159 The Catholic University Of Korea 160 Osaka Prefecture University	KR JP	M M	FC CO	VH VH	5 4	B A	14.3 14.3	6.6 20	99.3 74.5	90.4 50.2	37.8 55.8	72.4 49.2	10.6 16.8	16.3 14.2	26.5 17.2	40 4.5	20.3	34.2
	161 Yokohama National University	JP JP	M	co	VH	4	A	25.6	35.7	74.5 44.7	14.5	43.2	28.5	34.5	46.9	44.5	21.3	44.5	33.8
	162 University Of Santo Tomas	PH	XL	FC	LO	5	В	28.5	53.6	18.8	1	2	40.4	65.1	19.7	65.6	93.5	15.2	33.6
	163 Ritsumeikan University	JΡ	XL	СО	НІ	5	В	27.9	55.1	17.6	9.9	16.2	17.8	77.5	41.9	21.5	40.5	38.7	33.3
¥	164 Northwestern Polytechnical University	CN	L	CO	VH	4	Α	12.1	8.6	57.5	63.7	71.2	30.2	68.6	16	38.1	64.2	70.5	33.2
₩	165 Sophia University	JP	L	CO	HI	5	В	27.2	45.9	33.2	1.7	10.8	21.6	82.1	69.8	68.6	58	19.5	33
	166 Kaohsiung Medical University	TW	М	FO	VH	4		12.1	11.2	63.6	55.5	50.7	69	28.1	43.2	30.3	35.3	41.5	32.7
	167 Institute Of Chemical Technology, Mumbai	IN	S	FO	VH	4	Α	8.7	16.2	15.2	100	100	93.9		2.2			51.4	32.6
	168 Lanzhou University	CN	XL	CO	VH	5	A	18.9	5.8	26.3	22.8	45.4	96.3	9.4	6.5	3.8	7.2	87.3	32.5
	169 Anna University 170 Niigata University	IN JP	L L	FO FC	VH HI	3 4	A A	17.1 12.5	38.7 7.4	13.1 78.8	45.7 59.6	95.9 30.5	34.1 48.3	21.2	1.2 11.7	1.5 48.9	1.4 5.9	64.1 64.2	31.8 31.7
	171 University Of Electronic Science And Technology Of China	CN	XL	СО	VH	4	A	13	10.3	38.8	40.1	72.8	33.4	63.7	7.7	1.8	92.4	78.7	31.5
	171 University Of Engineering & Technology, Lahore	PK	L	FO	н	4	Α	21.7	52.8	25.9	1.2	11.5	37.2	5.3	53.1	1.7	1.8	52.8	31.5
Ψ	173 National Chung Cheng University	TW	М	CO	VH	3	Α	22.6	19.9	23.4	100	37.2	55.8	10.6	14.3	55	22.2	27.2	31.4
	174 University Of Peradeniya	LK	L	CO	MD	3	Α	21.6	34.3	22.8	2.8	6.3	62.2		6.7	2.5	1.8	80.5	31.2
	175 Bangladesh University Of Engineering And Technology	BD	М	SP	HI	3	Α	24	65.6	21.6	8	33.6	19.2		1.9			38.3	31
	175 Multimedia University	MY	M	SP	HI	2	C	18	38.5	26.1	2	26.4	30.8	66.8	87.5	87.7	14.9	37.3	31
	177 Jamia Millia Islamia, New Delhi 178 Feng Chia University	IN TW	M L	CO FO	VH VH	4	A C	13.5 17.9	17.4 20.8	60.6 10.9	67.3 72.9	25.5 43	65.4 52.3	14.6 14.6	15.9 55.8	3.8 71.6	4.5 29.8	45.8 42.3	30.9
	178 Ucsi University	MY	М	CO	MD	3	C	11.4	34.9	72.2	1	6.9	48	95.2	99.5	21.9	11.5	16.4	30.8
	180 Birla Institute Of Technology And Science	IN	М	СО	VH	5	В	17.6	30.6	14.3	90.4	45.8	45.4	1.5	7.2	14.3	19.3	48.8	30.7
	181 Beijing University Of Chemical Technology	CN	L	СО	VH	4	Α	12.7	8	55.8	1.1	42	97.3	4	7.7	22.9	30.2	53.2	30.4
1	181 China University Of Geosciences	CN	L	SP	VH	4	Α	10	3.8	69.9	3.1	52.9	59	4.2	15.7	11.2	35.1	86.5	30.4
	181 Chongqing University	CN	XL	CO	VH	4	Α	19	10.7	26.9	25.4	73.8	50.6	20.1	7.1	4.8	11.7	81.1	30.4
	181 Universiti Teknologi Brunei	BN	S	FO	HI	3	A	18.3	14.8	88.8	12	14.9	24	100	64.8	6.6	99.9	19.7	30.4
	<ul><li>185 Nanjing University Of Science And Technology</li><li>186 Beijing University Of Technology</li></ul>	CN CN	L L	FO CO	VH VH	4	A A	10.3 22.7	7.1 22	39.1 45.8	89.7 29.1	69.1 61.6	52.3 29.3	24.9 13.1	18.9 15.7	29.2 11.4	67.4 15	44.9 47.4	30.2
	187 University Of Mumbai	IN	XL	FC	MD	5	A	23.9	69	6.8	1	13.3	60.2	13.1	1		13	9.2	29.9
	188 Southern University Of Science And Technology	CN	S	СО	VH	1	Α	2.7		100	100	14.7	100	94.3	1.6		10.2		29.8
	188 Universiti Malaysia Pahang	MY	М	SP	Н	2	Α	15.9	18	25.6	42.5	31	41.5	87.1	39.5	32.9	31.6	56.9	29.8
<b>1</b>	188 Universiti Tunku Abdul Rahman	MY	L	FC	MD	2	В	15.9	47.6	22.4	1.6	10.5	58	47.4	7	22.4	27.7	36.8	29.8
	188 University Of Colombo	LK	L	СО	MD	5	Α	33.5	48.5	9.9	2.7	10.3	28.6		3.1	24.7	28.9	35.7	29.8
	192 Chung Yuan Christian University	TW	L	CO	HI	4	Α	10.6	11.3	10.5	59.6	46.8	80.9	15.4	44.5	99.7	11.2	49.6	29.7
	193 University Of The Punjab	PK	XL	CO	HI	5	A	27.4	51.4	5.4	1.2	19.6	20.8	10.2	2.2	1.5	2.4	64.8	29.6
	194 National Taiwan Ocean University	TW	M	FO	VH	4	A	11.1	9.4	27.6	97.4	59.3	43.4	23.5	39.9	86.4	34.9	41.8	29.5
	<ul><li>195 Aga Khan University</li><li>195 Nanjing University Of Aeronautics And Astronautics</li></ul>	PK CN	S L	FO FO	VH VH	3 4	C A	11.5 11.8	7.6 10.5	94.8 28.8	71	48.8 78.8	75.9 41.2	5.6 20.9	17.4 18.7	17.5	75.2	37.4 53.9	29.4 29.4
	197 Central South University	CN	XL	FC	VH	2	A	17.1	10.5	27.4	6	80.8	54.2	30.1	9.9	2.4	14.7	75.2	29.4
	198 Indian Institute Of Technology Hyderabad	IN	S	СО	VH	2	A	11.4	7.9	50.7	100	77	53.8	2.9	5.5		,	42.1	29.2
	199 Airlangga University	ID	L	FC	MD	4	Α	38.5	40.7	35	1.1	2.4	7.1	24	8	30.5	28.8	19.4	28.9
*	199 Yuan Ze University	TW	М	FO	VH	3	С	10.5	6.9	11.7	97.6	75.4	68.1	30.6	56.5	73.7	12.2	28.8	28.9

↑ Up◆ Down→ Same\* New





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	ASIA ASIA	Location	Size	Focus	Res.	Age	Status	Academic Reputation	Employer Reputation	Faculty Student	Staff with PhD	Papers per Faculty	Citations per Paper	International Faculty	International Students	Inbound Exchange	Outbound Exchange	International Research Network	Overall
<b>4</b>	201 The University Of Tokushima	JP	М	FC	VH	5	Α	12.6	4.6	58.5	100	71.1	30.7	17	10.3	5.8	3.6	49.7	28.6
<b>1</b>	201 University Malaysia Perlis (Unimap)	MY	М	SP	VH	2	Α	16.5	12.2	72.2	1.5	33.8	15.8	32.5	76.3	25.3	9	65.5	28.6
Ψ	203 International Christian University	JP	S	СО	MD	4	C	12.5	26.4	55.4	33.6	7.3	27.8	98.4	32.1	94.3	79.9	8.9	28.5
Ψ	203 Kyushu Institute Of Technology	JP	M	FO	VH	5	Α	15.5	12	24.6	96.9	86.7	24.4	44.8	23.4	10.4	2	48.4	28.5
<b>1</b>	203 Wuhan University Of Technology	CN	XL	FO	VH	2	A	15	9	28.2	16.1	33.3	72.9	14.8	15.7	3.3	14.1	78.6	28.5
<b>↑</b>	206 University Of Malaysia Sabah 207 Sri Venkateswara University	MY IN	L M	FC CO	MD VH	2	A A	28.1 5.3	28.3	16.2 38.5	15 100	13.9 45.4	24.6 56.6	75	22.4 1.4	40.8 98.6	13 100	44.5 28.2	28.4 28.3
<b>↑</b> ↓	208 Kookmin University	KR	L	СО	HI	4	c	9.5	11	42.6	33.8	15.5	71.4	27.3	81.2	77.9	79.7	19.3	28.1
· 个	209 Gyeongsang National University	KR	L	FC	Н	4	Α	9.1	4.7	38	88.2	43	66.6	23.8	10.9	6	7.9	55.6	28
<b>1</b>	209 Shinshu University	JP	М	FC	VH	4	Α	11.8	5	45.9	1.1	41	72	25.8	16.9	9.9	6.2	75.9	28
1	211 Central China Normal University	CN	L	СО	VH	5	Α	7.4	4.2	19.9	42.7	23.5	99.7	21.4	25.3	3.1	26.8	71.4	27.9
1	211 National Institute Of Technology Tiruchirappalli	IN	М	FO	VH	4	Α	9.3	14.2	30.5	40.4	77	80.2		42.5			37.1	27.9
_	211 Yokohama City University	JP	S	СО	VH	5	A	15	9.8	100	1.1	18.9	67.1	18.6	9.9	5.2	4.5	22	27.9
<u>ተ</u>	214 Aligarh Muslim University, Aligarh	IN	L M	CO SP	HI HI	5 4	A A	19.2 7.2	15.3 13	48.9 18.8	11.7 100	21.4 93.5	55.1 63.2		12.8 27.4	24.3	9.2	60.4 30	27.8 27.7
* *	215 National Institute Of Technology Rourkela 216 Alagappa University, Karaikudi	IN IN	S	CO	VH	3	A	2.3	5.1	91.7	88.6	43.3	74.8		27.4	24.5	9.2	19.3	27.5
<b>十</b>	216 Shimane University	JΡ	М	FO	VH	4	A	4.1	5.1	89	21.4	39.3	69.1	15.3	13.7	5.1	1.7	59.7	27.5
	218 Tezpur University, Tezpur	IN	S	FO	VH	2	Α	5.9	3.5	39.9	77.3	66.8	86.1	29.3	6.3	15.2	32.1	24.8	27.4
*	219 Indian Institute Of Technology Ropar	IN	S	FO	VH	2	Α	1		89.1	100	63.9	88.6			9	9.9		27.3
1	221 Saitama University	JP	М	СО	VH	4	Α	11.8	9	36.8	10.1	64.6	40.7	45.4	31.1	14.5	13.1	71.1	27.1
	222 Chungbuk National University	KR	L	FC	HI	4	A	11.6	8.2	38.9	94.5	38.9	41.9	23.7	38.7	9.1	15	43.4	26.9
<b>+</b>	223 Kagoshima University	JP CN	M L	FC FO	HI VH	4	A A	12.5 5.8	7.6 5	86.9 16.2	23.8 12.9	22.9 61.6	33.8 90.8	16.4 9.6	15.6 52.3	13 13.8	4.1 46.2	53.8 59.7	26.8 26.7
↑ ↓	224 Donghua University 225 Padjadjaran University	ID	XL	CO	MD	4	A	26.3	43.3	50.9	12.9	2.4	8.1	8.7	8.1	14.6	12.7	23.8	26.6
<b>个</b>	226 Shanghai Normal University	CN	XL	СО	HI	4	Α	11.3	6.5	31.9	14.7	10.9	92	25.7	23.2	21.2	56.5	44.1	26.5
<b>1</b>	227 Nanjing Normal University	CN	L	SP	VH	5	Α	9.5	3.2	35.9	35.3	17.9	82.2	12.2	34.7	4.5	33.2	58.5	26.4
Ψ	227 Northeastern University (China)	CN	XL	SP	VH	4	Α	11.9	7	25.3	38.6	70.9	21.7	79.3	13.6	47.6	26.2	65.5	26.4
1	229 Macau University Of Science And Technology	МО	М	CO	HI	2	Α	9.9	8.5	8.9	31.8	20.6	63.6	100	100	19.5	17.6	53	26.3
<b>^</b>	229 Sepuluh Nopember Institute Of Technology	ID	L	SP	MD	4	A	21.7	30.9	29.6	1.1	8.7	6.3	64.5	14.7	79.7	98.7	25.4	26.3
	229 Shanghai University Of Finance And Economics 232 Dankook University	CN KR	L L	FO FC	HI HI	5 5	A B	12.5 9.9	16.1 8.4	30.3 79.6	61.9 9.8	6.7 13.5	52.4 60.3	38.1 24.1	30.5 17.5	39.3 33.4	52 42.7	31.2 29.2	26.3 26.2
<b>▼</b>	232 Sunway University	MY	S	FO	HI	2	В	11.2	44.7	35	1.2	9.8	21.8	90.5	69.3	18.5	11.8	24.1	26.2
	234 Amrita University	IN	L	FC	н	2	В	9.5	14.7	46.9	12.9	17.4	36.3	96.9	8.5	99.9	34	39.5	26.1
<b>1</b>	234 Universiti Tenaga Nasional	MY	М	SP	HI	2	C	17.4	32.7	27.2	1.5	21.2	39	44.8	54.1	8	47	22.6	26.1
	236 Universiti Malaysia Sarawak	MY	L	FC	MD	3	Α	27.6	25.4	21.2	4.9	10.5	22.9	85.1	32.5	17.6	15.7	31.9	26
	237 Savitribai Phule Pune University	IN	M	СО	HI	4	Α	23.3	37.5	27.1	42.5	17.2	17.4		14.7			29.6	25.8
	238 Doshisha University	JP	L	CO	HI	5	В	23.4	41.3	13.2	5.3	13.5	15.3	65.1	21.8	5.9	16.8	33.9	25.7
<b>↓</b>	238 Northwest University (China) 240 Shenzhen University	CN CN	L XL	CO CO	VH VH	5 3	A A	11.3 11.4	2.1 3.1	62 52.7	8.9 15.5	26.8 18.2	81.7 62.3	6.5 27.9	6.7 4.9	3.3 6.7	7.5 21.8	46 63.6	25.7 25.6
	241 Indian Institute Of Technology Indore	IN	S	FO	VH	1	A	5.5	6.3	61.6	100	92.2	59	27.5	4.5	7.4	9.8	05.0	25.5
-	241 Ocean University Of China	CN	XL	FC	н	4	Α	13.2	4.9	18.8	35.4	56.3	51	26.3	9.3	2	26.4	69.4	25.5
	243 Beijing University Of Posts And Telecommunications	CN	L	СО	VH	4	Α	8	11.5	59.4	30.8	83.2	23.6	21.2	8.8			54.1	25.4
Ψ	243 National University Of Defense Technology	CN	М	FO	VH	4	Α	7	2.6	94.8	1	90.5	19.7	3.6				61.2	25.4
1	245 University Of Incheon	KR	L	СО	HI	3	Α	11.5	6.2	20.6	93.4	24.2	47.7	49.5	17.8	25.8	47.6	37.8	25.2
	245 Yamaguchi University	JP	M	FC	HI	4	A	9.9	5	73.5	31.5	26.9	34.4	27.9	20.3	8.2	5.8	54.5	25.2
	<ul><li>247 Kyoto Institute Of Technology</li><li>248 Huazhong Agricultural University</li></ul>	JP CN	S L	FO CO	VH VH	4 5	A A	15 7.4	11.9 2.5	33.3 19	89 70.7	81.1 35.5	13.5 68.9	19 18.2	43.8 8	38.2 1.5	15.1 12.1	16.6 66.5	25.1 25
ጥ ተ	249 Jiangnan University	CN	L	FC	VH	5 5	A	7.4 8.3	2.5 5.4	33.4	10.3	52.8	61.5	6.5	o 7.1	3.6	20.6	72.2	24.9
	250 Tokai University	JP	L	FC	н	4	В	26.1	14.1	29.3	3.7	17.1	29.4	26.7	14.3	3.9	6.1	54.5	24.8
	250 Xi'an Jiaotong-Liverpool University	CN	М	СО	н	2	В	12	6.6	22.6	16.8	12.5	40.6	100	34.2	21.6	100	52.2	24.8
	-																		

<sup>↑</sup> Up◆ Down→ Same\* New



# YONSEI UNIVERSITY ADVANCES AS BIOCLUSTER HUB

Yonsei University continues to pursue innovation through cuttingedge research in biotechnology and information technology at the Yonsei International Campus in Songdo, Incheon.



# **QS World University Rankings** Asia 2019: Trends



The Asian higher education system is a fiercely competitive one – and there is no better illustration of that characteristic than the new QS ranking for the region. Not one university in the top 20 occupies the same position as last year.

Most have moved only a place or two, but change is the order of the day. The trend is set at the very top, with the National University of Singapore (NUS) taking back the leadership of the Asia ranking from its neighbour, Nanyang Technological University (NTU), and the University of Hong Kong (HKU) moving up three places to second.

However, it is China's universities that have made the biggest impact overall. There are five Chinese universities in the top 20 – two more than last year - and every single one has improved its ranking position. 113 in the new and expanded ranking are from China, with the majority of them improving year-on-year.

QS's Asia Ranking now contains 500 universities for the first time, with 17 different countries and autonomous regions represented. QS has also published its first individual national rankings for China, India, South Korea and Japan.

The rise of Asian universities has been predicted for several years, as its governments have increased their investment in higher education and research. Almost 300 of the 1,000 institutions in the 2019 QS World University Rankings (WUR) were from the continent, including three in the top 20.

Although the methodology for QS's regional rankings differs from that used for the overall World University Rankings, three of Asia's top four are the same. NUS, the leader two years ago, has the top international research network in the continent and is in the top four for the number of citations per published research paper, as well as for both academic and employer reputation. NTU and Beijing's Tsinghua University, the other members of the global top 20, are tied in third place in the regional ranking.

HKU, which is little more than a point behind NUS, benefits from some of the measures that are unique to the regional rankings. It scores heavily for outbound exchanges, for example, as well as for its international research network. Its reputation among other academics has always been strong and it is in the top five for the proportions of international staff and

students. Hong Kong again has five universities in the top 40.

The measure for international research networks is new this year, giving credit for the volume of collaboration with universities outside the institution's home country. It brings to 11 the total number of indicators, adding to the distinctive nature of the regional rankings. The two leading Singaporean universities do best on the new measure, with the University of Malaya, in 19th place overall, the next highest-scoring.

Malaysia has followed its successful year in the overall QS World University Rankings with some progressive results in the regional version. It has five universities in the top 50 and the country's top 19 universities have all moved up.

Japan has had a mixed year in the ranking, with more than 80 universities represented but none in the top 10. Thirteen of its top 20 universities have gone down, although the University of Tokyo, which tops the new national ranking, has moved back to the verge of the top 10.



The Japanese table, like the one for South Korea, is drawn from the Asian ranking, whereas the ones for India and China are taken from the separate QS ranking for BRICS locations. KAIST, the Korea Advanced Institute of Science and Technology, takes first place in South Korea, while Tsinghua is top in China and the Indian Institute of Technology Bombay (IITB) is the leader in India.

The new Asian ranking confirms the spread of international-class institutions in India. There are almost 70 universities and institutes represented, including no fewer than 40 new entrants, although still none in Asia's top 30.

South Korea, with a much smaller population, has two universities in the continent's top 10, with Seoul National University joining KAIST in this group. In all, South Korea has 57 universities in the ranking, more than a dozen of which are new entrants.

Outside the continent's traditional powerhouses of higher education, there are also noteworthy performances. Taiwan's National Tsing Hua University and National Cheng Kung University, for example, are both in the top 40, while Thailand's Chulalongkorn Universityis in the top 50.

The regional rankings also allow universities that do not appear in the world rankings to benchmark themselves against their peers. The expanded Asian ranking has provided comparative data on over 80 more universities than last year's exercise.



# QS World University Rankings® Asia 2019: Focus South Korea

This year, in total, there are 57 institutions from South Korea that have been ranked among Asia's top 500, 14 of which are new entrants to the QS Asia university rankings. Nine South Korean institutions are featured among the continental top 50, and 27 institutions are ranked among the top 200. Only Mainland China (47) and Japan (29) have more top-200 universities, underlying the strength-in-depth that Korea's higher education system retains.

Korea's top universities have not yet proved able to compete with the true continental heavyweights as far as reputational standing among the global academic and employer communities is concerned, with the nation's leading institution for our reputational indicators (Seoul National University, 10th overall) ranking 7th in the continent for Academic Reputation and 8th regionally for Employer Reputation. Furthermore, 38 of South Korea's 58 ranked universities have seen their results for Employer Reputation decline year-on-year, with Sungkyunkwan University dropping out of the continental top 10 (now 16th for Employer Reputation).

Regional research leaders are still to be found in the country, with three of Asia's ten most productive research institutions South Korean: Gwangju Institute of Science and Technology ranking 3rd, Pohang University of Science and Technology (POSTECH) 9th, and KAIST 10th.

However, both POSTECH and KAIST have seen their rank for Papers per Faculty - our measure of research productivity - fall, and their place among the continental top 10 is currently under threat. This is compounded in a fall in their relative research impact score, which is measured using QS's Citations per Paper metric, and, though 12 South Korean institutions remain among the continental top 50 for research impact, only Kyung Hee University has improved its score this year. This dataset again reiterates the immense investment across the continent in research output, and the difficulties that all Asian institutions face in seeking to keep pace.

## South Korea

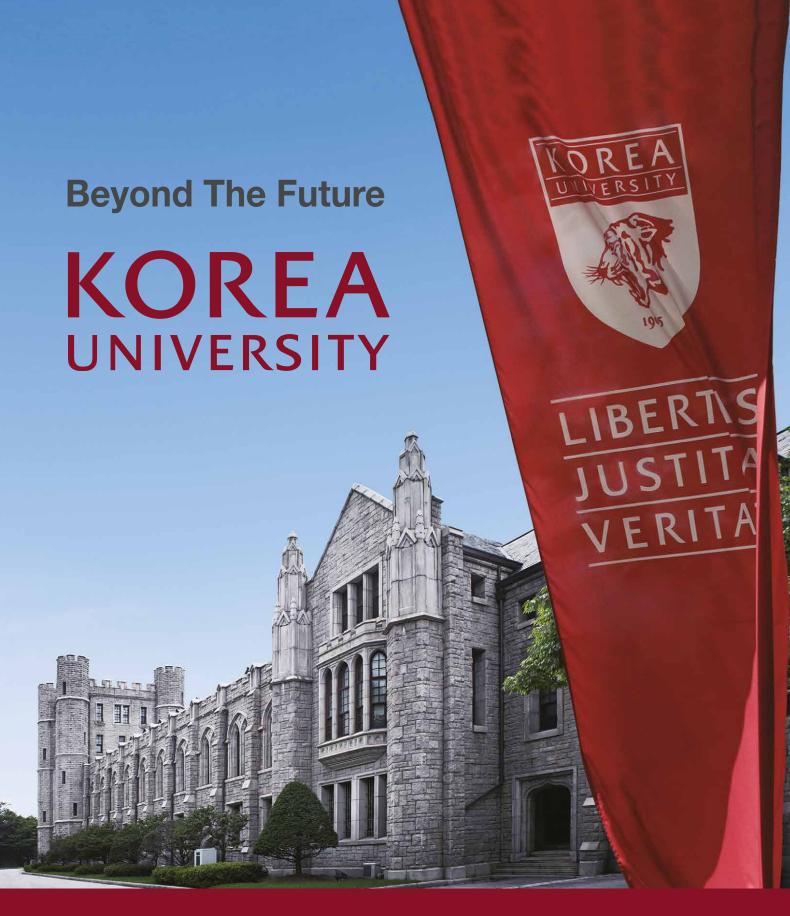
KAIST - Korea Advanced Institute of Science and Technology and Seoul National University remain the number one and number two in South Korea, followed by Korea University, Sungkyunkwan University and Yonsei University. Though the majority of the top-ten remains unchanged, POSTECH has experienced a noteworthy year-onyear decline, falling from 3rd to 6th.

The dataset indicates that efforts to internationalize are proving successful: an examination of the raw data for International Student Ratio indicates that Korea's average has risen from 5.8 international students per 100 students to 6.7, which constitutes more than a 15% increase.

In the research impact and productivity evaluation, POSTECH, KAIST and Sungkyunkwan University achieve higher research impact scores than any other Korean universities, with Seoul National University usurping Gwangju Institute of Science and Technology.

In the new indicator - International Research Network's - Korea University takes the top spot in South Korea in terms of the diversity of their international research partners, followed by Seoul National University, Kyung Hee University, Hanyang University and Sungkyunkwan University. Further editions of this ranking will indicate which institutions are doing most to collaborate with research partners across the globe, with a view to driving outstanding research impact and cross-border innovation.

2019 RANK	2018 RANK	South Korea	Size	Focus	Res.	Age	Status	Academic Reputation	Employer Reputation	Faculty Student	Staff with PhD	Papers per Faculty	Citations per Paper	International Faculty	International Students	Inbound Exchange	Outbound Exchange	International Research Network	Overall
1	8	Kaist - Korea Advanced Institute Of Science And Technology	М	СО	VH	3	Α	98.3	96.9	89.9	99	99.2	100	70.2	38.8	91.1	86.8	74.7	95.5
2	10	Seoul National University (Snu)	L	FC	VH	4	Α	99.9	99.6	95.1	81.9	95.7	85.1	61.9	51.1	95.9	63.1	39.8	94.2
3	12	Korea University	L .	FC	VH	5	В	92.7	98.1	94.6	52.2	93.5	97.8	49.9	90.4	98.1	99.8	98.6	93.9
4 5	15 17	Sungkyunkwan University Yonsei University	L	FC FC	VH VH	5 5	B B	85.5 88.8	97.5 97.7	95.4 94.2	54.2 56	98.3 87.6	99.9 91.9	59.7 50.7	81.5 86.8	93 91.7	100 100	97.9 95.7	91.8 91.1
6	24	Pohang University Of Science And Technology	S	FO	VH	3	В	70.3	82.1	100	99.4	99.8	100	92.6	22.3	80	98.2	99.8	85
7	25	Hanyang University	L	FC	VH	4	В	71.2	92.6	89.3	50.7	89.3	93	72.2	87.1	93.4	99	99.6	84.9
8	37	Kyung Hee University	L	FC	VH	4	В	50.1	70.9	93.3	31.8	92.6	97.8	46.4	83.4	95	100	100	73.5
9	50	Ewha Womans University	L	FC	Н	5	В	45	44.8	94	21.5	98	97.7	32.1	91.2	70.1	99.4	97.7	63.9
10	60	Sogang University	М	CO	VH	4	В	42	74.2	64.7	34.5	70.7	74.5	41	53.5	52.4	91	79.5	59.5
11	69	Chung-Ang University	L	FC	HI	5	В	31.6	49.5	90	23.1	71.1	96.7	58.2	80.7	44.4	93.6	96.6	55.2
12	76	Pusan National University	L	FC	VH	4	Α	43.5	40.5	54.8	50.1	63.2	98.9	33.9	38.2	80.4	24.4	36.4	52.8
13	84	Hufs – Hankuk (Korea) University Of Foreign Studies	L	CO	HI	4	В	30.2	51.3	92.9	4.8	37.2	79.3	90.1	89.6	29.2	99.9	100	49.9
14	90	Sejong University	L	CO FC	HI HI	4 5	B B	23.8 25.2	56 30	37.2 93.6	36.3 18.4	81.2 69.2	57.2 58.1	56.4	61.9 83.6	58 46.3	57.8 95.2	64 100	47.6 47.4
15 16	91 93	Dongguk University Gwangju Institute Of Science And Technology	S	FO	VH	3	A	24.4	11.6	52	100	95.3	100	47.9 30.1	36	76.8	93.2	99.9	47.4
17	94	Konkuk University	L	FC	HI	4	В	21	35.8	73.3	28	70.3	66.5	42.6	57	67.9	70.1	91.7	46.8
18	96	Chonbuk National University	L	FC	VH	4	Α	28.2	15.1	70.9	38.3	80.7	62.8	22.3	31.1	86	63	87.6	46.3
19	103	Kyungpook National University	L	FC	VH	4	Α	31	37.5	49.5	39.9	58.5	70.1	24.5	22.8	82.8	28.8	42.7	45.2
20	112	University Of Seoul	M	CO	VH	5	Α	30.2	28.4	55.8	25.9	62.2	82.7	26.1	23	40.4	81.4	92.8	42.4
21	119	Inha University	L	FC	VH	4	В	15.5	26.6	84.4	32.2	77.4	10.3	26.1	34.1	68.4	55.9	93.4	41.2
22	122	Chonnam National University	L	FC	VH	4	Α	23	13.6	61.5	39.5	79.3	79.1	24.3	28.6	66.8	29.9	36.8	40.1
23	124	University Of Ulsan	L	FC	VH	3	В	14.3	8.7	84.2	51.7	87.9	68.4	14.3	24.7	75.9	13.6	27	39.6
24	141 146	Yeungnam University  Ajou University	M	FC FC	HI VH	4 3	C B	18.5 13.4	13.1 16.1	29.1 58.9	40.7 50.7	76.1 73.2	56.6 72.9	72.5 28.2	35.9 32.4	56.3 48.4	36.7 31.9	95 23.6	35.9 35.1
25 26	151	Chungnam National University	I	FC	VH	4	A	22.7	20.8	47.5	45.7	47.9	72.9	24.9	22.9	60.7	7.3	10.9	34.8
27	159	The Catholic University Of Korea	M	FC	VH	5	В	14.3	6.6	99.3	37.8	72.4	90.4	10.6	16.3	20.3	26.5	40	34.2
28	208	Kookmin University	L	СО	Н	4	C	9.5	11	42.6	15.5	71.4	33.8	27.3	81.2	19.3	77.9	79.7	28.1
29	209	Gyeongsang National University	L	FC	HI	4	Α	9.1	4.7	38	43	66.6	88.2	23.8	10.9	55.6	6	7.9	28
31	222	Chungbuk National University	L	FC	HI	4	Α	11.6	8.2	38.9	38.9	41.9	94.5	23.7	38.7	43.4	9.1	15	26.9
32	232	Dankook University	L	FC	HI	5	В	9.9	8.4	79.6	13.5	60.3	9.8	24.1	17.5	29.2	33.4	42.7	26.2
33	245	University Of Incheon	L	CO	HI	3	A	11.5	6.2	20.6	24.2	47.7	93.4	49.5	17.8	37.8	25.8	47.6	25.2
		D Soongsil University D Hallym University	M	CO FC	HI HI	5 3	C B	-	-	93.7	27.9 27.2	52.5 38.7	84.1 26.4	39.8 18.1	43 21.3	-	55.5 32.2	38 30.4	23.6 - 24 22.9 - 23.5
		D Seoul National University Of Science And Technology	M	FO	VH	5	A	19	-	33.7	37.7	39.1	52.5	24.9	17.9	-	37.4	36	22.9 - 23.5
		Dinje University	М	FC	VH	4	c	-	_	78.4	32.3	43	56.1	12.7	10.4	_	30.2	21.1	22.9 - 23.5
		D Jeju National University	М	FC	Н	4	Α	-	-	37.9	33.5	57.3	51.8	-	30.8	-	11.6	33.7	22.4 - 22.6
38	291-30	) Sookmyung Women's University	М	СО	HI	5	C	-	16.1	37.9	-	46.5	59.4	43.7	-	-	43.7	49.4	22.4 - 22.6
40	301-35	Kangwon National University	L	FC	HI	4	Α	-	-	-	37.8	54.5	-	-	27.3	66.1	21.9	33.5	18.4 - 22.3
		D Pukyong National University	L	СО	VH	4	Α	-	-	-	50.8	39.6	89.1	19.1	25.7	32.9	7.5	13	18.4 - 22.3
		O Soonchunhyang University	М	FC	HI	3	В	-	-	65.5	-	42.3	67	27.9	22.5	-	66.7	34.2	18.4 - 22.3
		O Kwangwoon University	М	FO	VH	4	C	-	-	-	48.5	- 40.1	86.9	33.7	12.3	-	14.8	32.5	18.4 - 22.3
		O Hongik University	L	FO CO	VH HI	4	C C	-	-	-	-	40.1 65.4	26.2	75.3 34.7	16.7 10.7	30	10.3	17 14.5	15 - 18.3 15 - 18.3
		D Myongji University D Chosun University	L	FC	HI	4	C	-	-	23.7	24.7	39.5	46.6	34.7	-	30 39.7	13.8 15.1	14.5	15 - 18.3 15 - 18.3
		O Wonkwang University	L	FC	MD	4	C	-	-	26.8	-	42.2	63.8	-	-	-	20.1	- 7.7	15 - 18.3
		O Korea Maritime University	М	SP	LO	2	A	_	-	32.9	-	-	81.6	14.5	-	-	8.7	9.4	15 - 18.3
		D Gachon University	L	FO	VH	2	С	-	-	-	-	80.4	-	-	30.3	-	21.6	92.8	11.3 - 14.9
		Korea National University Of Education	S	FO	HI	3	Α	-	-	37.5	-	50.5	-	-	-	-	-	-	11.3 - 14.9



1

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# QS World University Rankings® Asia 2019: Focus Japan

This year in total there are 89 institutions from Japan that have been considered and ranked in Asia. nine of which are new entrants to the QS Asia rankings. 11 Japanese institutions are featured within the top 50, and 29 institutions managed to get into the Top 200.

However, while Japan's top institutions have performed well this year - with the University of Tokyo reaching its highest position since 2015 (11th), the overall Japanese performance is regressive, with more drops than rises. Only 12 Japanese institutions have improved their rank this year, with half of these improvements achieved by Japan's fifteen strongest institutions.

Further analysis on a metric-bymetric basis illuminates the primary reasons for these drops. For example, while Japan has two of Asia's top five institutions for QS's Academic Reputation indicator - the University of Tokyo (1st) and Kyoto University (4th), 64 of Japan's 89 institutions see their rank for Academic Reputation decrease, indicating that Japanese universities are seeing their relative global standing among the academic community decline.

In similar vein, evidence from our Faculty/Student Ratio implies a growing need for improved investment in teaching provision in Japan. 70 of Japan's 89 ranked universities have received a lower rank this year for Faculty/Student Ratio, with Nagoya University (12th in Asia for Faculty/ Student Ratio) and Kyoto University (13th) dropping out of the regional top ten for our proxy measure of commitment to teaching.

Our ranking also measures research impact and productivity, and the yearon-year results for this indicator do not offer more pleasing reading for those invested in the fortunes of the Japanese higher education sector. Our Citations per Paper metric examines the relative average research impact of each paper produced by an institution - and only one Japanese institution (the University of Tokyo, 48th in Asia) finds themselves among the continental top 50 for this indicator.

While Japan's relative research productivity - QS believe it essential to disentangle research quantity and research quality - is in somewhat better shape, with Tokyo Technological Institute producing more papers per faculty member than any other institution in all of Asia - the trend here is still an unambiguously regressive one. 77 of Japan's 89 ranked universities have seen their scores for Papers per Faculty decrease, implying that the nation's status as a regional research leader may come under increasing threat from ambitious regional peers in future years. Japan's leading institutions have remained relatively immune to

regional threats thus far - but our results this year suggest that this may be about to change.

#### Japan

The University of Tokyo remains Japan's leading institution, followed by Kyoto University, which has swapped places with Tokyo Institute of Technology (4th). Japan's top ten remains broadly stable, while in the 11-20 band, Tokyo Metropolitan University has returned to the top 20 after briefly exiting this group last year.

Based on the year on year comparison, the most improved individual indicator for Japanese institutions is Citations per Paper, with the average Japanese research impact increasing from 3.9 citations per paper (normalized) to 4.2, which constitutes a 7% increase. The University of Tokyo is still the Japanese institution with the highest research impact, while Shimane University and Toyota Technological Institute have become the fastest climbers in this indicator.

In the new indicator - International Research Network's analysis, Kyoto University tops the table in Japan in terms of the diversity of its partners in the international research collaborations, followed by The University of Tokyo, Osaka University, Tohoku University and Kyushu University in the domestic Top 5 table.



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2019 RANK	2018 RANK	Japan	Size	Focus	Res.	Age	Status	Academic Reputation	Employer Reputation	Faculty Student	Staff with PhD	Papers per Faculty	Citations per Paper	International Faculty	International Students	Inbound Exchange	Outbound Exchange	International Research Networ	Overall
1	11	The University Of Tokyo	L	FC	VH	5	Α	100	100	98.3	92.4	88.2	90.4	37.2	72	99.9	43	20.6	94
2	14	Kyoto University	L	FC	VH	5	Α	100	99.8	98.9	81.9	87.5	95.6	51.1	61.2	99.9	31.5	11.4	93.2
3	16	Osaka University	L	FC	VH	4	Α	97.5	95.5	91.1	86.5	73.7	88.9	65.4	55	98.9	43.1	78.7	91.3
4	18	Tokyo Institute Of Technology	М	СО	VH	5	Α	96	97.7	96.6	95.7	61.3	95.6	77.4	76.4	96.3	65.2	16	91
5	23	Tohoku University	L	FC	VH	5	Α	93.6	92.5	99.7	82.8	69.8	93.6	43.5	61.1	98.6	59.9	11.5	88.4
6	26	Nagoya University	L	FC	VH	5	Α	89.5	81.1	98.9	70.9	69.4	86.1	52.2	66.6	97.5	51.2	14.5	83.8
7	29	Hokkaido University	L	FC	VH	5	A	85.9	88.8	94.8	69.4	66.9	94.5	56.2	52.6	98.1	20.5	7.7	82.8
8 9	30 36	Kyushu University Waseda University	L XL	FC CO	VH VH	5 5	A B	85.4 86.3	89.4 98.4	97.4 44	69.6 21	64.5 56.4	86.5 10.3	51.7 76.2	67.5 84.7	98.4 89.9	9.8 53.7	10 75.2	82.4 74.9
10	42	Keio University	XL	FC	VH	5	В	82.5	97.1	76.8	26.7	50.4	1.8	40.4	42.8	83.3	43.8	27.9	72
11	46	University Of Tsukuba	L	FC	VH	3	A	65.8	44.4	82	59.7	55.7	92.8	53.2	84	94.9	70.1	84.2	68.1
12	59	Kobe University	L	FC	VH	4	Α	53.6	64.8	79.2	43.5	49	58	32.4	35.6	87.6	30.4	16.3	59.7
13	70	Hiroshima University	L	FC	VH	4	Α	51.2	32	93	43.4	57.8	50.5	38.3	57.7	96.1	10.9	4.8	55
14	77	Hitotsubashi University	М	SP	VH	5	Α	46.3	91	45.8	12.1	37.5	33.2	68	75.9	17.6	66.1	64.6	52.3
15	102	Tokyo Medical And Dental University	S	FO	VH	4	Α	30	17.5	100	44.9	75.1	90.9	9.3	52.3	48.5	32	17	45.3
16	110	Chiba University	L	FC	VH	5	Α	31.1	16.2	90.8	41.6	54.2	40.8	28.2	25.7	88.5	10.5	9.5	42.7
17	116	Tokyo Metropolitan University	М	СО	VH	4	Α	34.5	17.4	39.4	49.1	69.3	55.3	26.6	24.9	66.1	81.9	53.5	42
18	121	Tokyo University Of Agriculture And Technology	М	FO	VH	4	Α	29	15.1	32.1	96	45.6	98.4	14.3	35.2	71.9	55.1	24.7	40.4
19	128	Kanazawa University	M	FC	VH	4	A	22.3	10.6	76.9	45.2	62.8	65.4	26.9	26.4	69.7	21.5	8.6	38.1
20	132 133	Okayama University	L L	FC FO	HI VH	5 4	A B	22.9 26.4	16.1 38.4	86.6 18.3	39.3 60.1	55.1 58.3	46.6 48.9	33.8 43.4	23.1 12.8	66.6 59.3	1.8	1.3	37.4 36.9
21 22	140	Tokyo University Of Science  Nagasaki University	M	CO	VH	4	A	15.2	8.4	95.2	29.9	42.7	58.9	27.8	24.3	56.9	75.6	82	36.1
23	141	Kumamoto University	M	FC	VH	4	Α	20	9.1	92	33.8	49.9	21.4	25.7	21.9	78.2	51.1	4.1	35.9
24	148	Osaka City University	М	FC	Н	5	Α	25.9	12.7	82.4	34.9	55.6		19.6	23.4	55.1	72	4.4	35
25	160	Osaka Prefecture University	М	СО	VH	4	Α	14.3	20	74.5	55.8	49.2	50.2	16.8	14.2	60.1	17.2	4.5	34
26	161	Yokohama National University	М	СО	VH	4	Α	25.6	35.7	44.7	43.2	28.5	14.5	34.5	46.9	44.5	44.5	21.3	33.8
27	163	Ritsumeikan University	XL	CO	HI	5	В	27.9	55.1	17.6	16.2	17.8	9.9	77.5	41.9	38.7	21.5	40.5	33.3
28	165	Sophia University	L	CO	HI	5	В	27.2	45.9	33.2	10.8	21.6	1.7	82.1	69.8	19.5	68.6	58	33
29	170	Niigata University	L	FC	HI	4	Α	12.5	7.4	78.8	30.5	48.3	59.6	21.2	11.7	64.2	48.9	5.9	31.7
30	201	The University Of Tokushima	М	FC	VH	5	Α	12.6	4.6	58.5	71.1	30.7	100	17	10.3	49.7	5.8	3.6	28.6
31	203	Kyushu Institute Of Technology	M	FO	VH	5	A	15.5	12	24.6	86.7	24.4	96.9	44.8	23.4	48.4	10.4	2	28.5
31	203	International Christian University	S	CO	MD VH	4	C	12.5 11.8	26.4 5	55.4 45.9	7.3 41	27.8 72	33.6 1.1	98.4 25.8	32.1 16.9	8.9 75.9	94.3	79.9	28.5 28
33 34	209 211	Shinshu University Yokohama City University	M S	FC CO	VH	5	A A	15	5 9.8	100	18.9	67.1	1.1	18.6	9.9	75.9 22	9.9 5.2	6.2 4.5	27.9
35	216	Shimane University	M	FO	VH	4	A	4.1	5.0	89	39.3	69.1	21.4	15.3	13.7	59.7	5.1	1.7	27.5
36	221	Saitama University	М	СО	VH	4	Α	11.8	9	36.8	64.6	40.7	10.1	45.4	31.1	71.1	14.5	13.1	27.1
37	223	Kagoshima University	М	FC	Н	4	Α	12.5	7.6	86.9	22.9	33.8	23.8	16.4	15.6	53.8	13	4.1	26.8
38	238	Doshisha University	L	СО	HI	5	В	23.4	41.3	13.2	13.5	15.3	5.3	65.1	21.8	33.9	5.9	16.8	25.7
39	245	Yamaguchi University	М	FC	HI	4	Α	9.9	5	73.5	26.9	34.4	31.5	27.9	20.3	54.5	8.2	5.8	25.2
40	247	Kyoto Institute Of Technology	S	FO	VH	4	Α	15	11.9	33.3	81.1	13.5	89	19	43.8	16.6	38.2	15.1	25.1
41	250	Tokai University	L	FC	HI	4	В	26.1	14.1	29.3	17.1	29.4	3.7	26.7	14.3	54.5	3.9	6.1	24.8
42		O Gifu University	M	FC	HI	4	A	-	-	83.7	40	38.2	-	16.8	24.9	48.2	-		24.1 - 24.7
43		O Rikkyo University	L	FO	HI	5	C	13.7	19	37.1	-	81.9	-	23.5	16	-	5.6	-	23.6 - 24
44		O Nagoya City University	S	CO	VH	5	A	-	-	93.6	26.5	71.1	35.9	21.1	13	-	-	-	23.6 - 24
45 46		D University Of Miyazaki D Meiji University	M XL	FC CO	HI HI	4 5	A C	18.8	35.8	84.5	23.5	-	20.3	- 41.3	11.1 20.6	54.5 35.7	7.9 16.8	- 14.3	22.9 - 23.5 22.7 - 22.8
46 47		o Meiji University O Nagoya Institute Of Technology (Nit)	M	SP	VH	5	A	17.5	35.8	-	98.6	-		20.8	24.9	35.7 42.4	16.8		22.7 - 22.8
48		) Kindai University	XL	FC	HI	4	C		13.4	-	-	63.8	_	46.6	-	48.5	-	_	18.4 - 22.3
49		O Yamagata University	M	FC	HI	5	Α	_	-	30.9	59.3	54.5	-	15.2	_	54.8	7.2	-	18.4 - 22.3
49		O Toyota Technological Institute	S	FO	VH	3	C	-	-	27.8	100	83.4	-	-	15.6	-	6.7	-	18.4 - 22.3

S019 RANK Japan	Size	Focus	Res.	Age	Status	Academic Reputation	Employer Reputation	Faculty Student	Staff with PhD	Papers per Faculty	Citations per Paper	International Faculty	International Students	Inbound Exchange	Outbound Exchange	International Research Network	Overall
51-55 301-350 Aoyama Gakuin University	L	СО	HI	4	В	15	30.2	_	_	_	-	40.4	16.4	_	8.6	9.5	18.4 - 22.3
51-55 301-350 Gakushuin University	М	FO	HI	5	С	-	-	67.5	-	85.3	-	-	-	-	-	-	18.4 - 22.3
51-55 301-350 Kochi University	М	FC	HI	4	Α	-	-	47.4	30.5	73.4	-	13.8	12.4	32.5	-	-	18.4 - 22.3
51-55 301-350 Gunma University	М	FO	VH	4	Α		-	51	57.7	45.5	-	44.7	18.8	32.1	-	-	18.4 - 22.3
51-55 301-350 Shizuoka University	М	со	VH	4	Α		-	25.3	70.5	-	-	-	10.7	60.4	6.3	9.4	18.4 - 22.3
56-60 301-350 Akita Prefectural University	S	FO	VH	2	Α	-	-	83.5	41.5	-	98.5	52.3	-	-	-	-	18.4 - 22.3
56-60 301-350 Nihon University	XL	FC	HI	5	В	13.7	14.8	-	-	-	-	20.8	-	67.4	-	-	18.4 - 22.3
56-60 301-350 Kwansei Gakuin University	L	СО	HI	5	В	-	20.2	-	-	-	-	79.7	17	29.6	25.3	35.9	18.4 - 22.3
56-60 301-350 Akita University	M	FO	VH	4	Α		-	69.9	26.6	-	60.4	32.7	17.4	-	10.8	-	18.4 - 22.3
56-60 301-350 Ritsumeikan Asia Pacific University	M	SP	LO	2	C		24.4	-	-	-	-	100	100	-	66.2	72	18.4 - 22.3
61-65 351-400 Chuo University	L	СО	HI	5	C		23.3	-	-	-	-	40.5	12.3	29.4	-	-	15 - 18.3
61-65 351-400 Saga University	М	FC	HI	4	Α		-	30.3	46.7	38.7	-	-	11.7	38.5	10.9	-	15 - 18.3
61-65 351-400 Kitasato University	М	FO	VH	4	C		-	57.1	24.5	52.4	-	-	-	-	-	-	15 - 18.3
61-65 351-400 Hirosaki University	M	FC	HI	4	Α		-	41.3	35.9	37.4	-	-	-	38	13.4	-	15 - 18.3
61-65 351-400 Kansai University	XL	CO	HI	5	В	13.9	18.7	-	-	-	-	33.6	16.4	-	12.4	-	15 - 18.3
66-70 351-400 Mie University	М	FC	HI	4	Α	-	-	36.1	46.1	40.7	-	-	10.7	-	6.8	-	15 - 18.3
66-70 351-400 Kyoto Sangyo University	L	FO	HI	4	C		-	-	-	51.2	-	69.7	-	28.4	-	-	15 - 18.3
66-70 351-400 Tottori University	М	FO	VH	4	Α	-	-	47.4	47.9	-	-	-	-	-	-	-	15 - 18.3
66-70 401-450 Nara Women's University	S	CO	HI	5	Α	-	-	-	53.6	51.4	-	-	18.6	-	7.2	-	11.3 - 14.9
66-70 401-450 Ochanomizu University	S	CO	HI	5	Α	-	-	-	56.4	-	-	19.9	31.7	-	7.6	-	11.3 - 14.9
71-75 401-450 Akita International University	S	FO	MD	2	Α	-	-	-	-	-	-	100	-	-	100	-	11.3 - 14.9
71-75 401-450 Hosei University	XL	FO	HI	5	C	-	17.2	-	-	-	-	46	-	-	-	20.2	11.3 - 14.9
71-75 401-450 Toyo University	XL	CO	MD	5	C	14.6	-	-	-	-	-	27.5	13.2	-	-	-	11.3 - 14.9
71-75 401-450 Nagaoka University Of Technology	S	FO	VH	3	Α	-	-	25.6	99.6	-	-	-	-	-	-	-	11.3 - 14.9
71-75 401-450 Shibaura Institute Of Technology	M	FO	VH	4	C	-	-	-	35.4	-	-	16.9	15.2	-	48.6	-	11.3 - 14.9

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of ideas and people, dedicated to

## LIFE-CHANGING EDUCATION AND RESEARCH

## INSPIRING RESEARCH

We've won The Queen's Anniversary Prize for Higher and Further Education on four occasions. The latest for Food and Nutrition.

Our 5G Innovation Centre is the largest UK academic research centre dedicated to developing wireless communications fit for the future.

We are pioneering new approaches to the removal of space debris at Surrey Space Centre.

Our Centre for Vision Speech and Signal Processing (CVSSP) has been pioneering artificial intelligence research for over 30 years. Focusing on Al for Machine Perception, CVSSP is delivering cutting edge research in robotics, autonomous vehicles, biometrics and the creative industries.

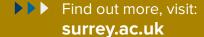
We are taking a leading role in the emerging area of Blockchain research through over £3m of UKRI investment drawing together expertise from our GCHQ accredited Centre for Cyber Security, the Centre for Digital Economy (CoDE) within the Surrey Business School, and technical expertise from both CVSSP and 5G.

## INSPIRING STUDENTS

- Teaching Excellence Framework (TEF Gold)
- An international community of staff and students from 120 countries
- Global placement opportunities for a Professional Training Year
- 93% of graduates employed after 6 months
- Ranked 121st -130th in QS World Graduate Employability Rankings 2018
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- Four Oscars, seven Grammys, and twelve BAFTAs awarded to our alumni













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The Bachelor of Pharmacy degree program of Ajman University, College of Pharmacy and Health Sciences, has been granted Certification by the Accreditation Council for Pharmacy Education.



Engineering Accreditation Commission Ajman University's Bachelor of Science programs in Biomedical Engineering and Electrical Engineering have been accredited by the Engineering Accreditation Commission of ABET.



# wering **Vocationa** Minds

Universiti Kuala Lumpur (UniKL) was established in 2002 under Majlis Amanah Rakyat (MARA), a Malaysian agency under the Ministry of Rural and Regional Development (KKLW). UniKL provides graduates with the knowledge, skills and attitude required to contribute towards and play major roles in a globalised and knowledge-based economy.

Having produced more than 48,000 graduates since its inception, UniKL strategically posits itself as a leading local institution for technical, vocational and entrepreneurial programmes. UniKL actively champions, markets and spread the message of Higher Technical and Vocational Education and Training (HTVET) in its programmes to truly become the apex of technical university for Malaysia.

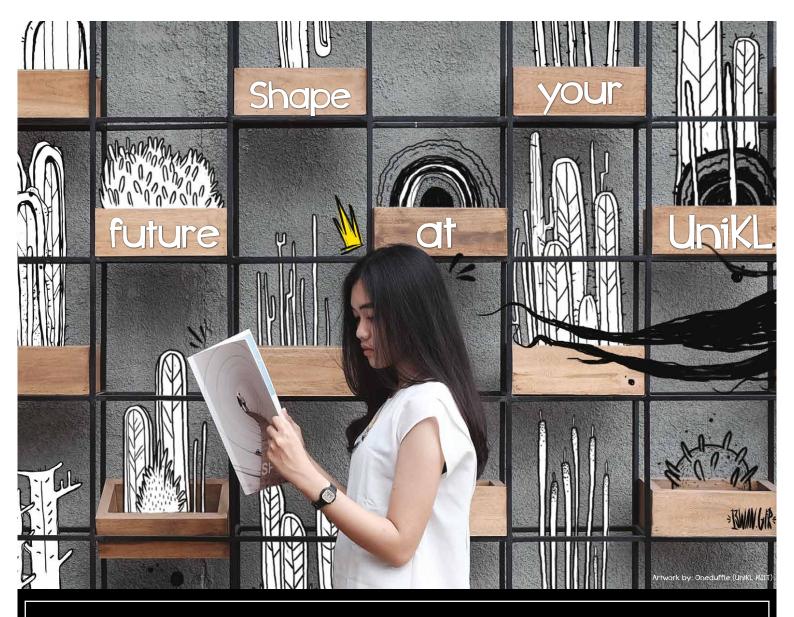
The philosophy of the university is to offer programmes that meet demands of the global industry, and that students are equipped with all the required knowledge and hands-on industry experience via what is known as Industrialmanship - a concept to introduce UniKL students to industrial culture and real working environment from as early as Semester 1 up to the Final Semester, upon graduation and beyond.

UniKL City Campus where the Chancellery is housed, is located in the heart of Malaysia's capital and commerce area, boasting the tallest University Tower in the country - a 31-story building situated at the heart of the Golden Triangle of Kuala Lumpur. The other 11 campuses are spread all over Peninsular Malaysia where every campus has its own specialization with the concept of 'One Campus, One Specialisation'.

Beyond the general and technical education delivered on campus, UniKL delivers a competitive and dynamic vocational education through strong partnerships with industries and research institutions to apply and commercialise research findings. Today, the university has extensive collaborations with local and international businesses such as Microsoft, Citroen, Aero Bildung, CIMB, CISCO, Hyundai, Oracle and IBM.

As one if its initiatives to improve the delivery in technical education, UniKL has developed its UniKL value-based Higher Technical and Vocational Education and Training (HTVET) model. The four pillars of excellence are: Innovative Teaching and Learning, Quality Curriculum, Academic Professionalism, and Student Enhancement. This model produces human capital who are innovation-driven, entrepreneurial, ethical and professionally skilled in science, technology and trades which is set to make Malaysia a high income nation.







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