

A Detailed Study on the Ranking of Indian Universities in comparison to International Universities.

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Executive Summary:

Indian institutions like the IITs offer best education in the country, but they still have a long way to go when compared to other top universities in the world. This year too, no Indian university was able to secure a place in the top 100 best universities in the QS World University Ranking.

The QS global rankings 2020, which was released in London, has 50 new entrants globally and India-based O P Jindal Global University (JGU), established in 2009, has become the youngest university to break into top 1,000 in the prestigious rankings. IIT-Madras, IIT-Kharagpur, IIT-Kanpur and IIT-Roorkee are also among the top 400 institutes. IIT-Guwahati, ranked 491, saw a decline in its ranking since last year when it was placed at 472.

The Delhi University improved on its last year's rank of 487 and is placed at 474 in the latest rankings.

Keywords:

Higher Education, Quality of Education, Indian Universities, QS Ranking, Times Higher Education, IITs.

Research Objectives:

1. To find out how Indian Universities compare to Universities of International Repute.
2. To identify the areas where Indian Universities are lacking behind as compared to their international counterparts.

Introduction:

India currently has a total of 911 Higher Education Institutions, with 400 State Universities, 126 Deemed to be Universities, 48 Central Universities and 337 Private Universities, as on 05.07.2019. India Given there is a range of factors and parameters that one need to look at before finalising an academics destination, it's a wise step to refer to the ranking of the university or institution you are considering to study abroad. For this end, there many international ranking systems, but for the purpose of analysis, only two major international ranking systems are being taken into consideration in this paper, QS Ranking and Times Higher Education Ranking.

What is QS Ranking?

QS ranking is an annual publication of university rankings by Quacquarelli Symonds, a British organisation specialising in the education industry. It was first published in 2004 in collaboration with Times Higher Education and was known as the Times Higher Education – QS World University Rankings until 2009 when both decided to publish their own versions.

QS Ranking Methodology

The QS World University Rankings considers the university's reputation among other universities (40%), employers (10%), student-teacher ratio (20%), citations-academic staff ratio (20%) and international outlook including students and staff (10%) for its compilation of top universities in the world.

Times Higher Education Ranking

The Times Higher Education World University Rankings 2019 includes more than 1,250 universities. This ranking system measures research-intensive universities across all of their core missions: teaching research, knowledge transfer and international outlook. The system uses 13 carefully calibrated performance indicators to provide the most comprehensive and balanced comparisons between institutions. The performance indicators are grouped into five areas: teaching (the learning environment); research (volume, income and reputation); citations (research influence); international outlook (staff, students and research); and industry income (knowledge transfer). The calculation of the rankings for 2019 has been audited by professional services firm PricewaterhouseCoopers (PwC).

Research Methodology:

The present paper is a secondary data based research paper with data being sourced from various ranking systems around the world. For the purpose of simplification, only top 10 World Rankings and top 10 Indian Rankings have been compared.

Data Analysis:

Table 1 is based on data derived from QS Rankings 2019.

QS University World Rankings 2019												
S. No	Institution	Location	Rank QS		Status	Academic Reputation	Employer Reputation	Faculty Student Ratio	Citations	International Faculty	International Students	Overall Score
1	Massachusetts Institute of Technology (MIT)	United States	1		Private	100	100	100	99.8	100	94.1	100
2	Stanford University	United States	2		Private	100	100	100	98.6	99.8	67.7	98.4
3	Harvard University	United States	3		Private	100	100	98.7	99.6	86.3	62	97.4
4	California Institute of Technology (CalTech)	United States	4		Private	97.8	81.2	100	100	99.4	87.3	96.9
5	University of Oxford	United Kingdom	5		Public	100	100	100	84.7	99.7	98.5	97.2
6	University of Cambridge	United Kingdom	6		Public	100	100	100	74.2	100	97.6	95
7	ETH Zurich - Swiss Federal Institute of Technology	Switzerland	7		Public	98.4	96.7	85	98.4	100	98	95.9
8	Imperial College London	United Kingdom	8		Public	98.6	99.9	99.8	72.1	100	100	94.1
9	University of Chicago	United States	9		Private	99.5	93.7	96.5	78.5	70.2	81	92
10	University College London (UCL)	United States	10		Public	99.3	98.7	98.1	76.7	99.1	100	94.8
QS University India Rankings 2019												
S. No	Institution	Location	Rank QS	Rank India	Status	Academic Reputation	Employer Reputation	Faculty Student Ratio	Citations	International Faculty	International Students	Overall Score
1	Indian Institute of Technology Bombay (IIT-B)	India, Mumbai	152	1	Public	54.5	71.2	45.8	54.6	3.4	1.6	49.4
2	Indian Institute of Technology Delhi (IIT-D)	India, Delhi	182	3	Public	46.8	63	23.3	80.6	3.3	1.5	46.2
3	Indian Institute of Science	India, Bengaluru	184	2	Public	33.3	16.2	53.2	100	1.5	1.8	45.9
4	Indian Institute of Technology Madras (IIT-M)	India, Chennai	271	4	Public	35.3	47.3	28	56.4	3.4	1.6	36.1
5	Indian Institute of Technology Kharagpur (IIT-KGP)	India, Kharagpur	281	5	Public	26.6	41.1	21.6	78.4	5.3	1	35.2
6	Indian Institute of Technology Kanpur (IIT-K)	India, Kanpur	291	6	Public	29.9	32.4	14.1	82.3	1.9	1.3	34.8
7	Indian Institute of Technology Roorkee (IIT-R)	India, Roorkee	383	9	Public	13.7	19.6	11.7	93.8		3	28.8
8	University of Delhi	India, Delhi	474	7	Public	37.1	43.7	12.1	15.6	1.7	1.8	25
9	Indian Institute of Technology Guwahati (IIT-G)	India, Guwahati	491	10	Public	11.7	15.2	18.7	71.2		1.5	24.3
10	University of Hyderabad	India, Hyderabad	601-650	8	Public	10.8	5.3	26.9	40.5	2.5	3.4	
Note: Only 24 Indian Institutions make the list out of 1002 entries.												
Source: QS Rankings 2019												

Table 2 is based on data derived from Times Higher Education Rankings 2019.

Times Higher Education World University Rankings 2019						
S. No	Institution	Location	Rank World	No of Students Per Staff	International Students %	Female-Male Ratio
1	University of Oxford	United Kingdom	1	11.2	41	46-54
2	California Institute of Technology (CalTech)	United States	2	6.4	30	34-66
3	University of Cambridge	United Kingdom	3	10.9	37	47-53
4	Stanford University	United States	4	7.3	23	43-57
5	Massachusetts Institute of Technology	United States	5	8.6	34	39-61
6	Princeton University	United States	6	8.1	25	45-55
7	Harvard University	United States	7	92	24	49-51
8	Yale University	United States	8	5.4	20	50-50
9	University of Chicago	United States	9	5.7	28	46-54
10	Imperial College of London	United Kingdom	10	11.7	56	38-62
Times Higher Education India University Rankings 2019						
S. No	Institution	Location	Rank World	No of Students Per Staff	International Students %	Female-Male Ratio
1	Indian Institute of Science	India	301-350	9.6	1	23-77
2	Indian Institute of Technology Ropar	India	301-350	7.6	0	13-87
3	Indian Institute of Technology Indore	India	351-400	9.7	0	17-83
4	Indian Institute of Technology Bombay	India	401-500	16.1	1	19-81
5	Indian Institute of Technology Delhi	India	401-500	14.8	1	20-80
6	Indian Institute of Technology Kharagpur	India	401-500	12.3	0	18-82
7	Institute of Chemical Technology	India	501-600	18.2	0	34-66
8	Indian Institute of Technology Gandhinagar	India	501-600	11.2	0	22-78
9	Indian Institute of Technology Roorkee	India	501-600	16.4	2	16-84
10	Amrita Vishwa Vidyapeetham	India	601-800	11.9	12	
Note: Only 56 Indian Institutions make the list out of 1396 entries.						
Table 2, Source: Times Higher Education Rankings 2019						

Finding:

As per Times Higher Education

- Yale University is the only newcomer to the top 10, joining at eighth place, up from 12th. Meanwhile, Switzerland's ETH Zurich has fallen out of this elite group, dropping from joint 10th to 11th place.
- Tsinghua University is now the top university in Asia, after rising eight places to 22nd, becoming the first Chinese institution to lead the continent under the current methodology (since 2011). China as a whole has increased its standing, driven by improvements in citation impact.
- Elsewhere in Asia, Japan has overtaken the UK as the second most-represented nation in the world, with 103 institutions (the UK has 98).
- There is also good news for France, which has a top 50 university for the first time since 2011, while several leading universities in Italy, Spain and Canada have risen.
- Overall, 86 countries are represented, including Iraq, Jamaica, Nepal, Tanzania and Kazakhstan for the first time.
- Indian Universities lack way behind on the parameters of percentage of International Students as well as Female to Male Ratio.

As Per QS Rankings

- Only three Indian institutes. IIT-Bombay. IIT-Delhi and IISc-Bangalore. have found place among the top 200 in the prestigious Quacquarelli Symonds (QS) World University Rankings released on Wednesday.
- Top 4 Institutions are Private Institutions as per world rankings, whereas in India, all the top ten Institutions are Public Institutions.
- Indian Institutions rank way below in all the parameters studied, such as Faculty Student Ratio, Percentage of International Students, Percentage of International Students.

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