

A COMPARATIVE STUDY OF FACTORS AFFECTING RANKING OF INDIAN AND INTERNATIONAL UNIVERSITIES

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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. Given that there are a number of factors and parameters to be considered before finalizing the academic destination, it is advisable to consider the ranking of a university or institution. For this end, there are 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 Quacquarellu Symonds, which is a British organisation specialising in the education industry. The ranking system was first published in 2004 in collaboration with Times Higher Education. It was then known as the Times Higher Education – QS World University Rankings. It was in 2009 when both the bodies decided to publish their own independent versions.”

QS Ranking Methodology

The QS World University Rankings takes into consideration a “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

More than 1,250 universities are included in Times Higher Education World Rankings 2019. The classification system measures research-intensive universities across all their core tasks: teaching, research, the transfer of knowledge, and international perspectives. In order to make the

most accurate and equilibrated comparison between organizations, the system uses 13 different calibrated performance indicators.

The performance indicators are categorised into five areas:



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.

Analysis

Table No. 1: 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 No. 2: 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	9.2	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						

Table No. 3: Average Points Scored by Top 10 World Institutions as compared to Top 10 Indian Institutions in QS Rankings.

QS University World Rankings 2019									
S. No	Institution	No of Private Institutes	Avg Academic Reputation	Avg Employer Reutation	Avg Faculty Student Ratio	Avg Citations	Avg International Faculty	Avg International Students	Avg Overall Score
1	QS University World Ranking Top 10	5	99.36	97.02	97.81	88.26	95.45	88.62	96.17
2	QS University India Ranking Top 10	0	29.97	35.5	25.54	67.34	2.88	1.85	36.19

Table No. 4: Average Points Scored by Top 10 World Institutions as compared to Top 10 Indian Institutions in QS Rankings.

Times Higher Education World University Rankings 2019					
S. No	Institution	Avg No of Students Per Staff	Avg International Students %	Avg Female Students Per 100	Avg Male Students Per 100
1	Time Higher Education World Top 10	16.73	31.8	43.7	56.3
2	Time Higher Education India Top 10	12.78	1.7	20.2	79.8

Finding

As per Times Higher Education

- Indian Universities lack way behind on the parameters of being taken into consideration.
- Number of Students per staff has a variance 3.95
- Average number of international students has a variance of 30.1
- Average number of female students per 100 students has a variance of 23.5
- Average number of male students per 100 students has a variance of 23.5
- World institutions have a more balanced student gender ratio.
- Indian institutions have a more skewed student gender 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.
- The average scores of Indian Institutions rank way below in all the parameters studied.

References

- <https://www.topuniversities.com/university-rankings/world-university-rankings/2019>
- <https://www.timeshighereducation.com/content/world-university-rankings>