

Newspaper Clips

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QS RANKINGS

IISc, 4 IITs among Asia's top 50 universities

BEST INDIAN UNIVERSITIES

Quacquarelli Symonds University Rankings Asia 2016

Institution	2016	2015	Change
Indian Institute of Science, Bangalore	33	34	+1
Indian Institute of Technology, Bombay	35	46	+11
Indian Institute of Technology, Delhi	36	42	+6
Indian Institute of Technology, Madras	43	56	+13
Indian Institute of Technology, Kanpur	48	58	+10
Indian Institute of Technology, Kharagpur	51	67	+16
University of Delhi	66	91	+25
Indian Institute of Technology, Roorkee	78	92	+14
Indian Institute of Technology, Guwahati	94	98	+4
University of Calcutta	108	149	+41

Source: Quacquarelli Symonds

BS REPORTER

Ahmedabad, 14 June

Two more Indian Institutes of Technology (IITs) broke the top-50 glass ceiling in the latest Quacquarelli Symonds (QS) University Rankings Asia 2016.

IIT-Madras and IIT-Kanpur jumped 13 and 10 places, respectively, to be ranked among the top 50 universities in Asia by QS, global higher education analysts. Against its rank of 56 in 2015, IIT-Madras was placed at 43 this year, while IIT-Kanpur stood at 48th position in 2016, up from 58 last year.

Other Indian universities in the list are Institute of Science (IISc) Bangalore (33), IIT Bombay (35) and IIT-Delhi (36).

Further, two Indian uni-

versities debuted in the long list this year: Amrita University (169) and Andhra University (301-350 band). The biggest leap among Indian universities was seen by the University of Delhi and the University of Calcutta. While the former rose by 25 places to 66th rank, the latter jumped 41 places to 108th.

"India's performance as a nation is the fifth best of the 17 countries featured in the rankings. With 23 universities, it is outperformed by Taiwan (34), South Korea (54), Japan (72), and China (82)," QS stated in a press release.

In the overall rankings, the National University of Singapore and the University of Hong Kong retained their first and second positions, respectively.

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COVER STORY



GROUP OF STUDENTS
AT IIT KHARAGPUR

THE SCIENCE OF EXCELLENCE

Five institutions at the helm of engineering education in India and their changing ethos

BY KARISHMA GOENKA AND ANANYA KAUSHIK

Did you know that India produces close to 1.5 million engineers per year which is more than the US and China combined. India's obsession with engineering and particularly the Indian Institutes of Technology (IITs) has been an all consuming feature in the lives of almost a million families who aspire to score a seat in these coveted institutions. With a slim acceptance rate of 2 per cent, they filter the most intelligent minds in the country and incubate them for their destiny. Private institutions like Vellore Institute of Technology and Birla Institute of Technology are close on their heels with a similar dedication to research but the added advantage of flexibility and dynamicity in curriculum. Over the past few years, IITs have vigorously steered their curriculum and focus towards entrepreneurship and innovation. Here's a look at how.

MENTORING BUSINESS

IIT Kharagpur

The soil of the Indian Institute of Technology Kharagpur is no stranger to revolution. The Big Brother among IITs, it was the first to be built in 1951 within the structure of what was the Hijli detention camp during the British rule. IIT Kharagpur (KGP) has come a long way since then. Today it is ranked third best among engineering institutes in the country by the government in their first ever National Institutional Ranking Framework (NIRF) and known for being alma mater to Delhi Chief Minister Arvind Kejriwal among other luminaries. Over the past few years IIT KGP has embraced the culture of entrepreneurship within the curriculum initiating a host of related activities and courses. Instead of merely focusing on the idea behind the start-up, IIT Kharagpur pays more attention to developing the best business models for them, as over 85 per cent of new businesses fail within the first few years. The college not only houses the Rajendra Mishra School of Engineering Entrepreneurship but also has an entrepreneurship cell within its ambit comprising of faculty and students that help mentor start-ups.

› **Most popular disciplines** Electrical engineering, civil engineering and mechanical and aerospace engineering.

› **Course fee** ₹2 lakh a year from 2016-17 session, visit www.iitkgp.ac.in for more details.

3 REASONS TO STUDY AT IIT KHARAGPUR

GIAN It is the official coordinator for the ministry's GIAN programme that enables foreign lecturers to visit India

Study Abroad Will offer a dual doctorate degree programme (DDDP) in collaboration with Curtin University, Australia

Empresario The entrepreneurship cell organises an open nationwide business model competition to nurture new ideas

COVER STORY



STUDENTS AT THE ROBOTICS LAB AT IIT DELHI

START-UP CENTRAL

IIT Delhi

Despite being in the political centre of the country, IIT Delhi, has effectively protected its student and staff from such distractions, maintaining its legacy as one of the best in the business. IIT Delhi has consistently offered applied sciences and engineering to its students with standards comparable to the very best in the world. Its vast, lush green campus and rapidly developing infrastructure and facilities speak the loudest. The problem of knowledge application in engineering colleges and institutes is prevalent throughout the country, and IIT Delhi till not long ago was no stranger to it. "We have recently inducted innovation as a part of our academic curriculum. Students can now take up multi-disciplinary courses, and are given lucrative incentives to go beyond the bilateral process of teaching and learning. They are further supported in their methods of application by being provided with semester and annual break options. We also support their ambitions by recognising their efforts in different fields", says Professor PVM Rao from the Mechanical Engineering department. The laboratories at IIT Delhi surpass every standard of normal, being provisioned with expensive and rare equipment such as an anechoic chamber and underwater tank at their microwave facility.

› **Most popular disciplines** Chemical engineering, civil engineering and computer science engineering

› **Course fee** ₹2 lakh a year from 2016-17 onwards, visit www.iitd.ac.in for more details

3 REASONS TO STUDY AT IIT DELHI

Start-up culture More than 50 start-ups operate out of IITD's hostel currently

Gap year on campus IIT Delhi Supports independent innovations and start-up businesses by providing semester or yearlong breaks with credits

Advanced equipment It is one of the few institutes in the country to have an underwater tank and an anechoic chamber on campus

MZH/21

COVER STORY

DANESH JASSAWALA

STUDENTS OUTSIDE IIT BOMBAY
MAIN BUILDING**MORE THAN ENGINEERING****IIT Bombay**

Nestled within Mumbai's concrete jungle, IIT Bombay is situated on the periphery of Powai Lake with resident crocodiles and panthers that you might chance upon on twilight strolls around the thriving foliage. The most coveted amongst all the IITs, this institute delivers the most unique experience in terms of holistic learning to students. It is known for not just its exemplary list of alumni but for outstanding faculty as well. While Padma award winning IIT Bombay professor Deepak Phatak has played a pioneering role in introducing blended online learning in India and devising low-cost tablet Aakash, professor Shyam Asolekar has constructed a wetland on campus and is an authority on Mumbai's environment issues. Pivotal figures such as Union Defence Minister Manohar Parrikar and former Environment Minister Jairam Ramesh have graduated from this institute. The campus has proved to be a petri dish of idea-driven action, because of its relatively free atmosphere and few restrictions. Many of the most successful start-ups in the market have arisen from IIT Bombay's conducive entrepreneurial ambience, the best known being Housing.com, Ola cabs, The Viral Fever, Inkfruit and Fabfurnish. Opportunities for application of courses taught abound through in-house competitions such as the Techfest and a generous mix of the arts particularly through Mood Indigo which is the most anticipated college festival in India.

› **Most popular disciplines** Computer science engineering, Electrical engineering and Mechanical engineering

› **Course fee** ₹90,000 per year, visit www.iitb.ac.in for details

3 REASONS TO STUDY AT IIT BOMBAY

Jungle vibe It has a thriving array of bird and animal species that visit the campus including leopards from the national park

Mood Indigo It organises the most popular college festival in India and is known for drawing some of the best international acts

Racing team Known to produce some of the best automotive designs. The latest being Orca, a race car that is faster than a Lamborghini

COVER STORY



JAISON G

GROUP OF STUDENTS CYCLING AROUND THE IITM CAMPUS

3 REASONS TO STUDY AT IIT MADRAS

Centre for Innovation
Designed to aid creativity in engineers and as a place where students can 'walk in with an idea and walk out with a product'.

Social innovation A special rural technology action group works on technology that can make village life easier

Incubate ideas IIT Madras's Research Park currently houses almost 55 start-up companies

DRIVING RESEARCH

IIT Madras

Born out of a collaboration between the governments of India and Germany, IIT Madras was built in 1959 with the best faculty training and state-of-the-art scientific and technical equipment from Germany. Chunks of the 625 acre wooded campus are part of the Guindy National Park and houses its own set of chital, blackbuck, monkeys and other rare wildlife. In this serenity, typical of most IITs, and classic sultry climate of the South, the finest minds of the country plunge themselves into research that holds the key to the future. Designated the best engineering institute in the country by the government's National Institutional Ranking Framework, IIT Madras has always found research to be at the core of its strength. On an average the institute files 80-100 patents each year and its faculty and students have published over 12,500 research papers between 2002 and 2014. People who have graduated from IIT Madras include the co-founder of Infosys Kris Gopalkrishnan, president of Carnegie Mellon University Subra Suresh and CEO of Edx Anant Agarwal. Agarwal also holds the position of director of the computer science and artificial intelligence laboratory at Massachusetts Institute of Technology, US.

› **Most popular disciplines** Computer science engineering, mechanical engineering and electrical engineering

› **Course fee** ₹90,000 per year, visit www.iitm.ac.in for more details

COVER STORY

DIGITAL FUTURE**Vellore Institute of Technology**

Founded in 1984 by Harvard alumnus and former MP from Tamil Nadu G Viswanathan, the Vellore Institute of Technology (VIT) has made a mark in record time. It was recently designated the best private engineering institute in India by the National Institutional Ranking Framework (NIRF), placing 13th among the dominant IITs and NITs of the country. VIT has been able to create a student-friendly learning environment through its Fully Flexible Credit System (FFCS) that allows students complete freedom to tailor their own course timetable and choice of professors. This helps them devote a generous amount of time to group activities and extra-curricular clubs; the most popular of which are the institute's racing clubs, which not only participate annually in international competitions such as Formula One and Baja SAE but also frequently win top positions in them. To imbibe a sense of responsibility in its students, the institute makes them organise a job mela for non-VIT students and places them in addition to its near 100 per cent placement for its own students. They also played an important role in reviving the nearby Palar river through cleanliness drives. What we can expect to see from VIT in the future might involve a complete phasing out of the need for pen and paper, as they aim to become completely digitised in the decade to come.

› **Most popular disciplines** Computer science engineering, biomedical engineering and civil engineering

› **Course fee** ₹1-2 lakh per annum, visit www.vit.ac.in for more details.

3 REASONS TO STUDY AT VIT

Flexibility Their Fully Flexible Credit System allows students to plan their own schedules and choose the professors and lectures they prefer

International transfer You can start your engineering course at VIT and finish it at a range of partner universities in the US, UK or Australia

Racing clubs Their racing clubs win in many design competitions, most recently being the Formula Student India

VIT BOASTS MODERN AND UPGRADED LABORATORIES

JAISON G



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BEST COLLEGES		COVER STORY			THE WEEK • JUNE 19, 2016
TOP		ENGINEERING COLLEGES			Composite Score*
Rank	Govt. [G] Pvt. [P]				
1	G	Indian Institute of Technology (IIT)	Delhi	668	
2	G	Indian Institute of Technology (IIT)	Mumbai	633	
3	G	Indian Institute of Technology (IIT)	Kharagpur	627	
4	G	Indian Institute of Technology (IIT)	Chennai	614	
5	G	Indian Institute of Technology (IIT)	Kanpur	561	
6	G	Indian Institute of Technology (IIT)	Roorkee	509	
7	P	Birla Institute of Technology & Science (BITS)	Pilani	467	
8	G	Indian Institute of Technology (IIT)	Guwahati	460	
9	G	Delhi Technological University (DTU)	Delhi	406	
10	G	Indian Institute of Technology (Banaras Hindu University)	Varanasi	398	
11	G	Indian School of Mines (ISM)	Dhanbad	365	
12	G	National Institute of Technology (NIT)	Surathkal	362	
13	G	College of Engineering, Anna University	Chennai	361	
14	G	National Institute of Technology (NIT)	Tiruchirappalli	360	
15	G	National Institute of Technology (NIT)	Warangal	359	
16	P	International Institute of Information Technology (IIIT)	Hyderabad	355	
17	G	Netaji Subhas Institute of Technology (NSIT)	Delhi	354	
18	P	Birla Institute of Technology (BIT), Mesra	Ranchi	349	
19	G	IEST, Shibpur (Formerly known as Bengal Engineering and Science University)	Kolkata	338	
20	G	National Institute of Technology (NIT)	Kozhikode	333	
21	P	Vellore Institute of Technology (VIT)	Vellore	328	
22	G	College of Engineering, Pune (COEP)	Pune	322	
23	G	Faculty of Engineering and Technology, Jadavpur University	Kolkata	320	
24	G	National Institute of Technology (NIT)	Rourkela	317	
25	G	Motilal Nehru National Institute of Technology (MNNIT)	Allahabad	303	
26	G	National Institute of Technology (NIT)	Durgapur	302	
26	G	Indian Institute of Information Technology (IIIT)	Allahabad	302	
28	P	Thapar University	Patiala	300	
29	P	Veeramata Jijabai Technological Institute (VJTI)	Mumbai	299	
29	G	Maulana Azad National Institute of Technology (MANIT)	Bhopal	299	
31	G	Visvesvaraya National Institute of Technology (VNIT)	Nagpur	293	
32	G	Malaviya National Institute of Technology (MNIT)	Jaipur	292	
32	G	PEC University of Technology	Chandigarh	292	
32	G	Madras Institute of Technology	Chennai	292	
35	G	National Institute of Technology (NIT)	Jamshedpur	291	
36	P	R.V. College of Engineering	Bengaluru	289	
37	P	PSG College of Technology	Coimbatore	288	
37	G	Zakir Husain College of Engineering & Technology	Aligarh	288	
37	G	Jamia Millia Islamia - Faculty of Engineering and Technology	Delhi	288	
40	G	National Institute of Technology (NIT)	Kurukshetra	287	
40	G	Dr. B.R. Ambedkar National Institute of Technology (NIT)	Jalandhar	287	
42	G	National Institute of Technology (NIT)	Raipur	286	
42	P	Manipal Institute of Technology	Manipal	286	
44	P	BMS College of Engineering	Bengaluru	285	
45	G	National Institute of Technology (NIT)	Patna	283	
45	G	Jawaharlal Nehru Technological University (JNTU)	Hyderabad	283	
47	P	SRM University	Chennai	281	
48	G	Sardar Vallabhbhai National Institute of Technology (SVNIT)	Surat	278	
49	P	PES University	Bengaluru	277	