

EDUCATIONWORLD

PRIVATE HIGHER EDUCATION RANKINGS 2016

In a departure from past practice in which we presented perceptual rankings of the country's Top 200 public and private universities together and ranked them *inter se*, this year we have opted to rate and rank the Top 100 private universities, engineering colleges and B-schools

Dilip Thakore



THIS YEAR EDUCATIONWORLD'S annual summer rankings of India's best private universities, engineering colleges and B-schools comes hard on the heels of the country's first ever official higher education institutions rankings published by the Union human resource develop-

ment ministry on April 4. For several years, when confronted with awkward questions about why none of the country's 389 public and 355 private universities strictly governed and regulated by supervisory government organisations such as the University Grants Commission and All India Council for Technical Education, figure in the Top 200 World University Rankings of London-based Quacquarelli Symonds and *Times Higher Education* or even of Shanghai Jiao Tong University, the standard official reply was that the evaluation parameters of foreign agencies are inappropriate for assessing India's *sui generis* institutions of higher education.

The unique parameters of inclusivity and outreach are duly included in the ministry's parameters (others: teach-

ing, learning and resources; research, consulting and collaborative performance; graduation outcome; and perception) grouped together under a National Institutional Rankings Framework (NIRF). "Country-specific parameters relevant to the Indian situation include regional and international diversity, outreach, gender equity and inclusion of disadvantaged sections of society," says Union HRD minister **Smriti Zubin Irani** in the preface to the Central government's inaugural India Rankings 2016 which rates 2,734 universities, engineering, business management and pharmacy colleges countrywide. "The rankings framework will empower a larger number of Indian institutions to participate in the global rankings, and create a significant impact internationally too. I see this as a sensitisation process and an empowering tool, not a tool for protection," she adds.

Although over two years of official labour have been invested in devising NIRF, the methodology of assessing the country's best higher education institutions is questionable. The rankings are based upon data submitted by the ranked institutions themselves which is likely to be tweaked, if not exaggerated. And although HRD ministry spokespersons claim that the data submitted has been checked and vali-

Top 10

UNIVERSITIES

- 1 Manipal University
- 2 Birla Institute of Technology & Science (BITS), Pilani
- 3 Amity University, Noida
- 4 International Institute of Information Technology (IIIT), Hyderabad
- 5 Vellore Institute of Technology (VIT) University
- 6 Thapar University, Patiala
- 7 Dhirubhai Ambani Institute of Information Communication Technology, Gandhinagar
- 8 Amrita Vishwa Vidyapeetham, Coimbatore
- 9 Ashoka University, Sonapat
- 10 SRM University, Chennai

ENGINEERING COLLEGES

- 1 Birla Institute of Technology & Science (BITS), Pilani
- 2 IIIT, Hyderabad
- 3 PSG College of Technology, Coimbatore
- 4 Dhirubhai Ambani Institute of Information & Communication Technology, Gandhinagar
- 5 Thapar Institute of Engineering & Technology, Patiala
- 6 Manipal Institute of Technology
- 7 Birla Institute of Technology (BIT), Mesra
- 8 Vellore Institute of Technology
- 9 RV College of Engineering, Bengaluru
- 10 Amrita Institute of Technology & Science, Coimbatore

B-SCHOOLS

- 1 Xavier School of Management (formerly XLRI), Jamshedpur
- 2 S.P. Jain Institute of Management & Research, Mumbai
- 3 Narsee Monjee Institute of Management Studies (NMIMS), Mumbai
- 4 Institute of Management Technology (IMT), Ghaziabad
- 5 Symbiosis Institute of Business Management (SIBM), Pune
- 6 Xavier Institute of Management (XIM), Bhubaneswar
- 7 International Management Institute, New Delhi
- 8 T.A. Pai Management Institute, Manipal
- 9 K.J. Somaiya Institute of Management Studies, Mumbai
- 10 Symbiosis Centre for Management & Human Resource Development, Pune

dated, it's obvious the validation exercise has been conducted in typically slapdash government style.

This explains the patent absurdity of the University of Tezpur, Assam being ranked #5, a notch above Delhi University; Visva-Bharati, Shantiniketan, which is in terminal decline being ranked #11 and Jamia Hamdard, an institution dispensing *ayurvedic* and *unani* medical education being ranked #18, while the nationally renowned Jamia Millia Islamia University, Delhi is ranked a lowly #83. Quite obviously in typical government style, the names of the two universities were mixed up.

Worse, highly regarded Central institutions such as FMS, Delhi, and the Delhi Technological University, routinely ranked among the country's Top 10 B-schools and engineering colleges in all media surveys, are not ranked at all. The S.P. Jain Institute of Management & Research, Mumbai, regularly ranked among the country's Top 10 B-schools which has established campuses in Singapore

and Dubai (average placement salary: Rs.18 lakh per year), is ranked below the Thiagarajar School of Management, Madurai (average placement salary: Rs. 5 lakh). Indeed, the HRD ministry's league tables are reminiscent of the voters' rolls produced by state and municipal governments replete with unverified spelling and address errors.

"Despite two years of lead time and all the resources of the Union government at its command, the HRD ministry's inaugural universities, B-schools and engineering colleges league tables display drastic inconsistencies, are shockingly misleading and have damaged the reputation of several of the government's own universities and institutions of higher education. Far from creating an international impact as the HRD minister hopes, the new official university rankings have made the government a laughing stock. It's a clear case of fools rushing in where angels fear to tread," says a market research veteran, interviewed on condition of anonymity.

This is the backdrop against which we present the annual Education-World 2016 Rankings of the country's best private universities, B-schools and engineering colleges. In a departure from past practice in which we presented perceptual rankings of the country's Top 200 public and private universities together and ranked them *inter se*, after considerable deliberation this year we have chosen to beam the spotlight on private universities and institutions for several reasons.

First, with most publications (*India Today*, *Outlook*, *Careers 360* and several business magazines and dailies) publishing league tables of public and private institutions of higher education without differentiation, we discerned a sense of *déjà vu* and reader fatigue with such surveys. Secondly, with the same heavily-subsidised government institutions — Indian Institute of Science, Delhi University, 23 Indian Institutes of Technology and 19 Indian Institutes of Management — dominating the league tables of all media publications year after

INDIA'S TOP 100 PRIVATE UNIVERSITIES

With top ratings on the parameters of faculty competence, faculty development and welfare, research and innovation, and infrastructure, Manipal University has leapfrogged BITS, Pilani and IIIT, Hyderabad to the top of EWIPUR 2016

Dilip Thakore

T

HE MANIPAL (KARNATAKA)-BASED Manipal University (MU, estb.1953) — accorded the status of deemed (private) university in 1993 — which provides medical, engineering, business and hotel management, pharmacy, nursing and paramedical education to 30,000 students in its 22 colleges,

has been voted India's #1 private university by the 4,465 sample respondents polled in the EducationWorld India Private University Rankings (EWIPUR) 2016. Ranked #3 among private universities and #15 overall in 2015, this year, with top ratings on the parameters of faculty competence, faculty development and welfare, research and innovation and infrastructure, MU has leapfrogged the Birla Institute of Technology and Science (BITS), Pilani and the International Institute of Information Technology, Hyderabad, ranked first and second in 2015, to the very top of the EW private universities league table.

"Manipal University has risen to the top in the public esteem because of sustained effort and teamwork of the

Top 10

1 Manipal University

2 Birla Institute of Technology & Science (BITS), Pilani

3 Amity University, Noida

4 International Institute of Information Technology (IIIT), Hyderabad

5 Vellore Institute of Technology (VIT) University, Vellore

6 Thapar University, Patiala

7 Dhirubhai Ambani Institute of ICT, Gandhinagar

8 Amrita Vishwa Vidyapeetham, Coimbatore

9 Ashoka University, Sonapat

10 SRM University, Chennai



Manipal University chancellor Dr. Ramdas Pai (centre) & Dr. H. Vinod Bhat (centre right): intelligent investment payoff

administration, faculty and successive batches of students who have succeeded in their businesses and professions all over the world. Such institutional synergy always produces great results," says **Dr. Ramdas Pai**, chancellor of MU who has played a major role in transforming Manipal (pop. 35,000) into India's premier university town, and in establishing MU-affiliated colleges and universities in Sikkim, Malaysia, Dubai, and Antigua (West Indies) after he took charge following the death of MU's legendary founder **Dr. T.M.A Pai** (1898-1979). Currently, the Manipal Education Group comprises 55 private education institutions with an aggregate enrolment of 167,000 students in India and abroad.

Dr. H. Vinod Bhat, FRCS and an alumnus of Glasgow University, who signed up with MU in 1988 and was appointed vice chancellor of the university last June, is also delighted that MU has been ranked India's #1 private university by the informed sample respondents of EWIPUR 2016. Bhat is particularly enthused about this off-the-beat-en-track varsity's top rating on the parameter of research and innovation. "In recent years, we have made a conscious effort to expand our research capacity in the life and natural sciences, virology and biomedical engineering, and MU has emerged as a national hub of embryology, genetics and social science research. Intelligent investment in globally benchmarked science and medical infrastructure has attracted substantial domestic and international research grants. I am also happy with MU's top rank on the param-

eters of faculty competence, development and welfare which drives the research capability we have developed. Moreover, the top rating we have received on infrastructure validates my point about sustained intelligent infrastructure development," says Bhat.

In this year's league table of India's best private universities, MU is followed by last year's top-ranked **Birla Institute of Technology & Science, Pilani** and **Amity University** (#1 and #4 in 2015), **International Institute of Information Technology, Hyderabad** (#4), and **VIT University, Vellore** (5). The next half of the Top 10 table is made of **Thapar University, Patiala** (6), **Dhirubhai Ambani Institute, Gandhinagar** (7), **Amrita Vishwa Vidyapeetham, Coimbatore** (8), **Ashoka University, Sonapat** (9) and **SRM University, Chennai** (10).

Further down the league table, the Pune-based **Symbiosis International** (#11) and **Shiv Nadar University** (12) as also **Azim Premji University, Bangalore** (15), and the previously unranked **IIIT, Bangalore** (19) have made great leaps forward in the esteem of the informed public to be ranked among India's Top 20 private universities.

"The popularity of India's private universities is growing nationally and internationally because we focus on contemporary education to make students industry-ready. In the case of Amity, our goal is to also train them to become employment providers rather than employment seekers. We cannot afford to bask in past glory and achievements. We

India's Top 100 private universities league table

Rank		University	Competence of faculty (150)	Faculty welfare & development (100)	Research and innovation (300)	Pedagogic systems and processes (100)	Industry interface/ experiential learning (100)	Placement (100)	Infrastructure and facilities (150)	TOTAL SCORE (1000)
2015	2016									
3	1	Manipal University	137	87	230	85	82	86	144	851
1	2	Birla Institute of Technology and Science (BITS), Pilani	135	86	226	87	83	90	142	849
4	3	Amity University, Noida	135	84	218	86	81	79	141	824
2	4	International Institute of Information Technology (IIIT), Hyderabad	136	86	209	90	84	89	129	823
4	5	Vellore Institute of Technology (VIT) University	134	85	219	87	78	80	139	822
5	6	Thapar University, Patiala	133	83	215	84	81	88	134	818
7	7	Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar	135	85	200	89	82	86	140	817
8	8	Amrita Vishwa Vidyapeetham, Coimbatore	133	77	215	84	79	84	135	807
14	9	Ashoka University, Sonapat	136	84	203	88	80	82	130	803
12	10	SRM University, Chennai	130	84	205	82	79	72	137	789
29	11	Symbiosis International University, Pune	133	79	193	83	81	81	134	784
24	12	Shiv Nadar University, Gautam Buddha Nagar	130	82	202	85	78	73	132	782
15	13	Shanmugha Arts, Science, Technology & Research Academy (SASTRA) University, Thanjavur	132	81	206	79	77	79	127	781
9	14	Narsee Monjee Institute of Management Studies (NMIMS), Mumbai	131	83	204	78	80	85	119	780
21	15	Azim Premji University, Bengaluru	131	79	194	79	80	78	133	774
18	16	Kalinga Institute of Industrial Technology (KIIT) University, Bhubaneswar	131	78	199	79	77	76	130	770
NR	17	Birla Institute of Technology (BIT), Mesra	130	74	186	79	82	80	138	769
25	18	Sri Ramachandra Medical College and Research Institute, Chennai	133	80	202	70	74	75	126	760
NR	19	International Institute of Information Technology (IIIT), Bengaluru	133	76	179	80	78	85	127	758
10	20	Christ University, Bengaluru	128	77	199	71	73	75	133	756
17	21	PES University, Bengaluru	129	81	187	74	78	84	120	753
14	22	O.P. Jindal Global University, Sonapat	132	77	183	82	76	74	128	752
38	23	JSS University, Mysore	123	78	188	78	77	76	131	751
22	24	Jaypee University, Noida	121	83	186	80	75	76	124	745
11	25	Nirma University, Ahmedabad	122	73	189	74	76	75	133	742
28	26	MS Ramaiah University of Applied Sciences, Bengaluru	123	73	191	76	74	76	127	740
13	27	Indian Institute of Health Management Research (IIHMR) University, Jaipur	121	77	197	68	77	74	124	738
19	28	Sathyabama University, Chennai	116	79	204	69	72	65	131	736
NR	29	Bharath University, Chennai	128	77	181	74	74	70	123	727
21	30	LNM Institute of Information Technology, Jaipur	127	75	171	78	76	75	124	726
NR	31	FLAME University, Pune	123	73	167	81	75	74	132	725
20	32	GITAM (Gandhi Institute of Technology and Management) University, Visakhapatnam	120	72	183	75	73	69	132	724
22	33	KL University, Guntur	119	73	185	76	74	72	122	721
35	34	Karunya University, Coimbatore	125	72	187	73	70	69	123	719
26	35	Manav Rachna International University, Faridabad	127	75	161	73	76	66	130	708
29	36	Bharati Vidyapeeth University, Pune	124	76	157	77	75	68	122	699
20	37	Chitkara University, Chandigarh	119	69	167	74	72	70	123	694

Private universities: state rankings

Rank		Rajasthan	Rating (1000)
India 2016	State 2016		
2	1	BITS, Pilani	849
27	2	IIHMR University, Jaipur	738
30	3	LNM Institute of Information Technology, Jaipur	726
44	4	Banasthali University, Jaipur	677
53	5	Dr. KN Modi University, Tonk	654
62	6	NIIT University, Neemrana	645
73	7	Amity University, Jaipur	634
75	8	JK Lakshmi Pat University, Jaipur	632
87	9	Jain Vishva Bharati University, Nagaur	618



Hindustan University students: Tamil Nadu Top 10

Rank		Odisha	Rating (1000)
India 2016	State 2016		
16	1	Kalinga Institute of Industrial Technology (KIIT) University, Bhubaneswar	770
54	2	Centurion University, Bhubaneswar	653
71	3	Siksha 'O' Anusandhan University, Bhubaneswar	636

Rank		Karnataka	Rating (1000)
India 2016	State 2016		
1	1	Manipal University	851
15	2	Azim Premji University, Bengaluru	774
19	3	IIIT, Bengaluru	758
20	4	Christ University, Bengaluru	756
21	5	PES University, Bengaluru	753
23	6	JSS University, Mysuru	751
26	7	MS Ramaiah University of Applied Sciences, Bengaluru	740
43	8	Alliance University, Bengaluru	678
49	9	NITTE University, Mangalore	664
70	10	Jain University, Bengaluru	637
89	11	KLE University, Belagavi	616
91	12	BLDE University, Bijapur	608
96	13	Presidency University, Bengaluru	596

Rank		Tamil Nadu	Rating (1000)
India 2016	State 2016		
5	1	VIT University, Vellore	822
8	2	Amrita Vishwa Vidyapeetham, Coimbatore	807
10	3	SRM University, Chennai	789
13	4	Shanmugha Arts, Science, Technology & Research Academy (SASTRA) University, Thanjavur	781
18	5	Sri Ramachandra Medical College and Research Institute, Chennai	760
28	6	Sathyabama University, Chennai	736
29	7	Bharath University, Chennai	727
34	8	Karunya University, Coimbatore	719
46	9	Avinashilingam Institute for Home Science and Higher Education for Women University, Coimbatore	672
47	10	Hindustan University, Chennai	669
57	11	M.G.R. Educational and Research Institute, Chennai	650
78	12	Kalasalingam University, Krishnankoil	629
79	13	Vel Tech Dr. RR and Dr. SR Technical University, Chennai	628
81	14	Saveetha University, Chennai	626
93	15	VISTAS (Vels University), Chennai	605

Rank		Andhra Pradesh	Rating (1000)
India 2016	State 2016		
32	1	GITAM (Gandhi Institute of Technology and Management) University, Visakhapatnam	724
33	2	KL University, Guntur	721
66	3	Vignan University, Guntur	641
85	4	Sri Sathya Sai Institute of Higher Learning, Puttaparthi	620

Parameters of excellence: India's Top 10 private universities

To compile the EW India Private University Rankings 2016, C fore field researchers interviewed 2,133 faculty, 1,368 final year students and 964 industry managers countrywide, asking them to rate universities on seven parameters, viz, competence of faculty, faculty welfare and development, research and innovation, pedagogic systems and processes, industry interface, placements record, and infrastructure and facilities. Further, the informed interviewees were also asked to assign weightage to each parameter. The scores awarded by respondents under each parameter were totaled for the purpose of final rankings.

The 'research and innovation' parameter was assigned highest weightage (300) indicating that respondents believe that the ability of faculty to engage in meaningful research and development including publication of papers in reputed international journals, is the most important criterion for assessing the educational capabilities of universities. Parameter rankings which highlight the prime strengths of highly ranked institutions are useful because they enable students to select institutions whose priorities dovetail with their own.

The national rankings of Top 10 private universities under all seven parameters, are set out below.



BML Munjal University, Gurgaon: industry linkage kudos

Rank	2016	Faculty welfare & development	Rating (100)
1	1	Manipal University	87
2	2	BITS, Pilani	86
2	2	IIIT, Hyderabad	86
3	3	VIT University, Vellore	85
3	3	Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar	85
4	4	Amity University, Noida	84
4	4	Ashoka University, Sonapat	84
4	4	SRM University, Chennai	84
5	5	Thapar University, Patiala	83
5	5	NMIMS University, Mumbai	83
5	5	Jaypee University, Noida	83
6	6	Shiv Nadar University, Gautam Buddha Nagar	82
7	7	SASTRA University, Thanjavur	81
7	7	PES University, Bengaluru	81
8	8	Sri Ramachandra Medical College and Research Institute, Chennai	80
9	9	Symbiosis International University, Pune	79
9	9	Azim Premji University, Bengaluru	79
9	9	Sathyabama University, Chennai	79
10	10	JSS University, Mysuru	78
10	10	KIIT University, Bhubaneswar	78

Rank	2016	Industry interface	Rating (100)
1	1	IIIT, Hyderabad	84
2	2	BITS, Pilani	83
3	3	Manipal University	82
3	3	Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar	82
3	3	BIT, Mesra	82
4	4	Amity University, Noida	81
4	4	Thapar University, Patiala	81
4	4	Symbiosis International University, Pune	81
5	5	Ashoka University, Sonapat	80
5	5	NMIMS University, Mumbai	80
5	5	Azim Premji University, Bengaluru	80
5	5	BML Munjal University, Gurgaon	80
5	5	D.Y. Patil Education Society, Kolhapur	80
6	6	Amrita Vishwa Vidyapeetham, Coimbatore	79
6	6	SRM University, Chennai	79
7	7	VIT University, Vellore	78
7	7	IIIT-Bangalore	78
7	7	Shiv Nadar University, Gautam Buddha Nagar	78
7	7	PES University, Bengaluru	78
8	8	SASTRA University, Thanjavur	77
8	8	KIIT University, Bhubaneswar	77
8	8	JSS University, Mysuru	77
8	8	IIMR University, Jaipur	77
9	9	O.P. Jindal Global University, Sonapat	76
9	9	Nirma University, Ahmedabad	76
9	9	LNM Institute of Information Technology, Jaipur	76
9	9	Manav Rachna International University, Faridabad	76
10	10	Jaypee University, Noida	75
10	10	FLAME University, Pune	75
10	10	Bharati Vidyapeeth University, Pune	75

Rank		Rating (150)
2016	Competence of faculty	
1	Manipal University	137
2	IIIT, Hyderabad	136
2	Ashoka University, Sonipat	136
3	BITS, Pilani	135
3	Amity University, Noida	135
3	Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar	135
4	VIT University, Vellore	134
5	Thapar University, Patiala	133
5	Amrita Vishwa Vidyapeetham, Coimbatore	133
5	Symbiosis International University, Pune	133
5	Sri Ramachandra Medical College and Research Institute, Chennai	133
5	IIIT-Bangalore	133
6	SASTRA University, Thanjavur	132
6	O.P. Jindal Global University, Sonipat	132
7	NMIMS University, Mumbai	131
7	Azim Premji University, Bengaluru	131
7	KIIT University, Bhubaneswar	131
8	SRM University, Chennai	130
8	Shiv Nadar University, Gautam Buddha Nagar	130
8	BIT, Mesra	130
9	PES University, Bengaluru	129
10	Christ University, Bengaluru	128
10	Bharath University, Chennai	128

Rank		Rating (150)
2016	Infrastructure and facilities	
1	Manipal University	144
2	BITS, Pilani	142
3	Amity University, Noida	141
4	Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar	140
5	VIT University, Vellore	139
6	BIT, Mesra	138
7	SRM University, Chennai	137
8	Jain University, Bengaluru	136
9	Amrita Vishwa Vidyapeetham, Coimbatore	135
9	Jagran Lakecity University, Bhopal	135
10	Thapar University, Patiala	134
10	Symbiosis International University, Pune	134

Rank		Rating (100)
2016	Pedagogic systems and processes	
1	IIIT, Hyderabad	90
2	Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar	89
3	Ashoka University, Sonipat	88
4	BITS, Pilani	87
4	VIT University, Vellore	87
5	Amity University, Noida	86
6	Manipal University	85
6	Shiv Nadar University, Gautam Buddha Nagar	85
7	Thapar University, Patiala	84
7	Amrita Vishwa Vidyapeetham, Coimbatore	84
8	Symbiosis International University, Pune	83
9	SRM University, Chennai	82
9	O.P. Jindal Global University, Sonipat	82
10	FLAME University, Pune	81

Rank		Rating (100)
2016	Placement	
1	BITS, Pilani	90
2	IIIT, Hyderabad	89
3	Thapar University, Patiala	88
4	Manipal University	86
4	Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar	86
5	NMIMS University, Mumbai	85
5	IIIT, Bangalore	85
6	Amrita Vishwa Vidyapeetham, Coimbatore	84
6	PES University, Bengaluru	84
7	Ashoka University, Sonipat	82
8	Symbiosis International University, Pune	81
9	VIT University, Vellore	80
9	BIT, Mesra	80
10	Amity University, Noida	79
10	SASTRA University, Thanjavur	79

Rank		Rating (300)
2016	Research and innovation	
1	Manipal University	230
2	BITS, Pilani	226
3	VIT University, Vellore	219
4	Amity University, Noida	218
5	Thapar University, Patiala	215
5	Amrita Vishwa Vidyapeetham, Coimbatore	215
6	IIIT, Hyderabad	209
7	SASTRA University, Thanjavur	206
8	SRM University, Chennai	205
9	NMIMS University, Mumbai	204
9	Sathyabama University, Chennai	204
10	Ashoka University, Sonipat	203

INDIA'S BEST PRIVATE ENGINEERING COLLEGES

With the monotonously top-ranked IITs and NITs admitting a minuscule percentage of the estimated 1.3 million school-leavers aspiring for engineering education, and other government engineering colleges in a shambles, league tables of the country's Top 100 private engineering colleges serve a very useful public purpose

Summiya Yasmeen

E

ENGINEERING EDUCATION IN INDIA is in deep crisis. An overwhelming majority of the 1.5 million graduates certified annually by the country's 3,470 engineering colleges — the largest yearly cohort of engineering graduates produced by any nation worldwide — are unemployable. Ac-

According to the *Aspiring Minds National Employability Report 2016* released in early January, 80 percent of the country's engineering graduates are inadequately skilled for industry. An earlier 2011 report of NASSCOM (National Association of Software & Services Companies) estimated the unemployability of engineering graduates at 83 percent. It ascribed the poor employability of India's engineering graduates to inadequate knowledge of English (the medium of instruction) and communication skills, inadequate domain knowledge, and deficient technical skills.

The general consensus among informed academics is that the quality and unemployability crises in Indian engineering education have been precipitated and accentuated

Top 10

- 1 Birla Institute of Technology & Science, Pilani
- 2 International Institute of Information Technology (IIIT), Hyderabad
- 3 PSG College of Technology, Coimbatore
- 4 Dhirubhai Ambani Institute of ICT, Gandhinagar
- 5 Thapar Institute of Engineering & Technology, Patiala
- 6 Manipal Institute of Technology
- 7 Birla Institute of Technology, Mesra
- 8 Vellore Institute of Technology
- 9 RV College of Engineering, Bengaluru
- 10 Amrita Institute of Technology & Science, Coimbatore



BITS, Pilani (Rajasthan): India's #1 private engineering institute. Inset: Dr. V.S. Rao

ated by indiscriminate licencing of engineering colleges by the Delhi-based All India Council for Technical Education (AICTE), the apex regulatory body for technical education. Over the past decade, the number of engineering colleges in the country has almost tripled from 1,511 in 2006-07 to 3,384 in 2013-14. The fallout of the wild mushroom growth of engineering colleges led by the private sector is excess capacity. In the academic year 2015-16, AICTE estimates that 50 percent of the total seats available (1.6 million) in engineering colleges were vacant countrywide, driving a large number of them to the edge of bankruptcy.

Against this backdrop of continuous decline in quality, in 2013 and 2014 *EducationWorld* published its first pan-India ranking of engineering colleges other than the seven pioneer Indian Institutes of Technology (IITs), which by common consensus are leagues ahead of other engineering colleges and monotonously top all media rankings. Given that barely 2 percent of the 1.3 million school-leavers who write the IIT-JEE (joint entrance examination) annually, are admitted into these elite institutes, your editors have *ab initio* felt that the public interest would be better served by eliminating the IITs from our rankings and comparing the remainder *inter se*.

Taking this reasoning a step further, this year we have eliminated all government-promoted colleges including the 30 Central government-funded National Institutes of Technology (NITs) and highly subsidised state government en-

gineering colleges. Like the IITs, the 30 NITs admit a mere 16,000 students countrywide who write IIT-JEE annually, while the majority of state government engineering colleges offer pathetic education. Moreover, with almost 80 percent of the 3,470 engineering colleges promoted and managed by private edupreneurs, it makes good sense to evaluate the relative merits of the country's Top 100 private engineering colleges to enable parents and students countrywide to choose from the best among them.

"The IITs and NITs are supported by massive Central government grants and resources and unsurprisingly dominate almost all national league tables of engineering colleges. At the other end of the spectrum are poorly funded state government engineering colleges offering sub-standard education. *EducationWorld* has done the right thing by eliminating all government colleges from this year's survey, and instead ranking the Top 100 private engineering colleges. This will not only help parents/students to choose from among the best accessible engineering colleges but also spur the latter to upgrade and improve. With many private engineering colleges reporting student vacancies and some in Andhra Pradesh and Tamil Nadu shutting down, there's growing quality consciousness within the private sector, with managements realising that there's no alternative to raising teaching and research standards," says **Dr. R. Natarajan**, former chairman of AICTE.

To choose the best 100 among India's privately-pro-



Dr. Natarajan: twin benefit

moted engineering/technology colleges, we once again commissioned the Delhi-based **Centre for Forecasting and Research Pvt. Ltd (Cfore, estb.2000)**, one of the country's premier market research and public opinion polling companies. Over the past nine years, Cfore has repeatedly conducted not only the unprecedented EducationWorld India School Rankings and EW India Preschool Rankings, but also university, college and B-school rankings which have been widely appreciated by the student, parents and academic communities.

TO CONDUCT THE inaugural EW India Private Engineering Colleges Rankings 2016 survey, 50 Cfore field personnel fanned out across the country to interview 1,247 faculty and 1,342 final year students of 100 engineering colleges who were asked to rate them on seven parameters of academic excellence given differing weights *viz.* competence of faculty (weight: 350), faculty welfare and development (200), research and innovation (300), pedagogic systems and processes (250), industry interface (300), placements (200), and infrastructure and facilities (300).

"The sample respondents were



PSG's Rudramoorthy: industry interface pride

quizzed according to a structured questionnaire and asked to rate institutions of which they were aware on the seven parameters. Care was taken that not more than one member of each institution was polled and ratings which faculty gave to their own institutes were disqualified. Low-profile institutions rated by less than 25 respondents were eliminated from the rankings," says **Premchand Palaty**, the promoter-chief executive of Cfore.

In the EW India Private Engineering Colleges Rankings 2016, the **Birla Institute of Technology and Science, Pilani** (Rajasthan) and the **International Institute of Information Technology, Hyderabad** (IIIT-H) have been voted India's top two private engineering colleges. It's pertinent to note that BITS, Pilani and IIIT-Hyderabad were ranked #1 and #2 respectively in EW's all-inclusive 2013 and 2014 league tables of India's best non-IIT engineering colleges. Moreover the BITS, Pilani-Hyderabad campus is separately ranked #12 and Goa campus #22 in this year's Top 100 private engineering colleges league table. However, in the concurrently conducted EW India Private University Rankings 2016 survey, BITS, Pilani (including Pilani, Hyderabad and

Goa campuses) — a deemed university — lost its 2015 #1 spot to Manipal University (see p.50).

"Our #1 ranking validates and recognises the unique BITS model of higher education. We are one of the few universities which has an educational philosophy which establishes a dialectical link between theory and practice. Pure academics is supplemented by deep industry engagement through our Practice School, a work integrated learning programme which includes entrepreneurial leadership for students and industry immersion for faculty. The industry readiness of our students is reflected in our #1 rating on the placements parameter and 100 percent campus recruitment record. Our #1 rating on the infrastructure parameter is also justified. All BITS campuses are equipped with state-of-the-art infrastructure, and we have earmarked more than Rs.1,400 crore for infrastructure expansion of our three Indian campuses over the next few years," says **Dr. V.S. Rao**, an alumnus of Andhra University and BITS, Pilani who starting teaching at his alma mater in 1974 and is currently the interim vice chancellor of this globally-benchmarked, pioneer private university.

The third spot in the EW Top 100

Private Engineering Colleges Rankings 2016 has been awarded to the **PSG College of Technology (PSGCT), Coimbatore**, which had been continuously rising in the previous inclusive league tables of best non-IIT engineering colleges from #11 in 2013 to #4 in 2014. Established in 1951, PSGCT is ranked among the Top 4 on the parameters of research, industry interface and placements.

“**WE HAVE BEEN** consistently ranked among the country’s top engineering institutions by several surveys. An excellent placement record, intensive applied research undertaken by our faculty, and strong interface with industry have boosted our reputation in recent years. In particular, we pride ourselves for experiential education and have established 40 centres of excellence in partnership with India Inc. Moreover, over 200 faculty are engaged in research and 600 research scholars are in our postgraduate programmes. Every year, more than 100 companies campus-recruit graduates at a start-up average salary of Rs.5 lakh with the highest salary package crossing Rs.20 lakh per annum this year,” says **R. Rudramoorthy**, principal of PSG College of Technology which offers 14 undergraduate and 22 postgraduate engineering and technology programmes to its 8,450 students mentored by 543 faculty.

Further down the league table of this year’s best private engineering colleges, **Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar** has yielded ground and is ranked #4 while the **Thapar Institute of Technology, Patiala** has risen to #5 (#9 in 2014) as has the **Manipal Institute of Technology** to #6 (10). The Top 10 league table is completed by **Birla Institute of Technology, Mesra** (7), **Vellore Institute of Technology** (8), **RV College of Engineering, Bengaluru** (9), and **Amrita Institute of**



KIIT’s Samanta: model institution

Technology & Science, Coimbatore (10).

With the southern state of Tamil Nadu (516) and Maharashtra (370) hosting the largest number of private engineering colleges in the country followed by Karnataka (212), unsurprisingly, colleges sited in these three states dominate the national league table. Tamil Nadu has 19 private engineering colleges ranked among the Top 100, Maharashtra has 16 and Karnataka 15.

In sharp contrast, the eastern seaboard states of West Bengal, Bihar, Odisha, and Jharkhand (combined pop. 264 million) together boast an estimated 215 private engineering colleges, of whom only three are ranked in the Top 100 national league table. Among the well-reputed engineering institutes of eastern India is the **Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar**, ranked #38 all-India, #2 in eastern India and #1 in Odisha. Promoted in 1992, KIIT, which was conferred deemed university status in 2004, is also ranked #14 pan-India and #1 in Odisha (pop.43 million), in the EW Private University Rankings 2016 (see p.50).

“I am pleased to learn that KIIT is ranked Odisha’s #1 engineering uni-

versity. Over the past 23 years since it was promoted, KIIT has emerged as a model engineering and higher education institution of eastern India. Our #1 ranking is the outcome of investing in contemporary infrastructure, developing innovative pedagogies through our high-quality faculty, and research activities. All this is reflected in our 100 percent placement record with the salary offered to KIIT graduates averaging Rs.4.60 lakh per year and the highest going up to Rs.33 lakh. As a result of the excellent reputation we have built, there’s a huge rush for admissions — last year 250,000 students wrote our entrance exam for admission into 2,500 seats,” says **Dr. Achyuta Samanta**, founder of KIIT University, which has an enrolment of 27,000 students.

The high quality of institutions included in the EW 2016 league table of Top 100 private engineering colleges is testified by the high state rankings of colleges not ranked among the national Top 20.

For instance, the Mumbai-based **Vivekanand Education Society’s Institute of Technology, Mumbai**, ranked #34 all-India, is top-ranked in Maharashtra (pop.112 million); the **Faculty of Engineering & Technology of Manav Rachna International University, Faridabad** is ranked #49 nationally, but #1 in Haryana (pop.25.3 million); and the **Rajagiri School of Engineering and Technology, Ernakulam**, ranked #65 pan-India, is ranked #1 in Kerala (pop.35 million).

Great pains have been taken to ensure this year’s league table of India’s Top 100 private engineering colleges helps aspiring engineering/technology students to shortlist, even if not choose, the most suitable colleges from among the best. Apart from national and state league tables, we also present Top 10 ratings and rankings under each of the seven parameters of academic excellence to help parents/students further narrow their search.

With **Hemalatha Raghupathi** (Coimbatore)

India's Top 100 Private Engineering Colleges

Rank			Competence of faculty (350)	Faculty welfare & development (200)	Research and innovation (300)	Pedagogic systems and processes (250)	Industry interface/ experiential learning (300)	Placement (200)	Infrastructure and facilities (300)	TOTAL SCORE (1900)
2014	2016									
1	1	Birla Institute of Technology and Science (BITS), Pilani	313	173	226	219	250	180	287	1648
2	2	International Institute of Information Technology (IIIT), Hyderabad	312	172	214	225	248	179	278	1628
4	3	PSG College of Technology, Coimbatore	308	168	219	220	247	176	269	1607
3	4	Dhirubhai Ambani Institute of Information & Communication Technology, Gandhinagar	307	169	200	224	245	172	282	1599
9	5	Thapar Institute of Engineering & Technology, Patiala	305	165	216	218	243	175	268	1590
10	6	Manipal Institute of Technology	302	162	211	217	240	169	280	1581
7	7	Birla Institute of Technology (BIT), Mesra	312	156	210	205	239	171	284	1577
5	8	Vellore Institute of Technology (VIT)	306	166	217	223	231	155	277	1575
6	9	RV College of Engineering, Bengaluru	310	164	208	202	244	173	247	1548
18	10	Amrita Institute of Technology & Science, Coimbatore	301	163	215	207	225	165	271	1547
8	11	SSN College of Engineering, Kalavakkam	300	163	200	205	241	168	265	1542
NR	12	BITS, Pilani-Hyderabad campus	291	151	194	197	239	177	283	1532
17	13	SASTRA University, Thanjavur	302	161	206	203	234	159	254	1519
33	14	Amity School of Engineering and Technology, Noida	268	152	201	194	220	148	275	1458
12	15	PES University, Bengaluru	281	161	187	185	235	167	241	1457
11	16	Thiagarajar College of Engineering, Madurai	276	158	192	180	234	152	263	1455
22	17	BMS College of Engineering, Bengaluru	275	161	190	198	232	154	241	1451
NR	18	IIIT, Bengaluru	279	139	179	202	237	172	242	1450
15	19	JSS Mahavidyapeetha Sri Jayachamarajendra College of Engineering, Mysuru	275	156	188	185	232	151	262	1449
27	20	SRM University, Chennai	278	155	185	179	236	140	269	1442
24	21	Jaypee Institute of Information Technology University, Noida	270	159	187	201	226	150	248	1441
13	22	BITS, Pilani-Goa campus	269	160	160	189	231	159	270	1438
29	23	Nirma University, Ahmedabad	273	145	193	186	230	145	262	1434
NR	24	Karunya University, Coimbatore	259	156	196	182	233	135	246	1407
16	25	The LNM Institute of Information Technology, Jaipur	271	131	169	196	227	154	247	1395
23	26	MS Ramaiah Institute of Technology, Bengaluru	262	142	189	184	218	153	246	1394
46	27	GITAM, Visakhapatnam	266	141	181	186	215	138	266	1393
43	28	Sathyabama University, Chennai	251	157	205	173	216	129	261	1392
37	29	KL University, Vaddeswaram	263	144	185	191	218	140	245	1386
44	30	The National Institute of Engineering, Mysuru	265	155	157	191	230	151	232	1381
19	31	Chaitanya Bharathi Institute of Technology, Hyderabad	273	133	170	175	235	150	243	1379
NR	32	Vasavi College of Engineering, Hyderabad	271	143	168	173	229	149	241	1374
36	33	JSS Academy of Technical Education, Noida	263	144	193	181	218	139	234	1372
NR	34	Vivekanand Education Society's Institute of Technology, Mumbai	268	145	156	175	238	156	219	1357
NR	35	Symbiosis International University, Pune	258	128	152	183	211	146	268	1346
42	36	KJ Somaiya College of Engineering, Mumbai	264	149	158	174	235	140	225	1345
26	37	Vishwakarma Institute of Information Technology, Pune	267	147	153	170	231	138	235	1341
30	38	Kalinga Institute of Industrial Technology (KIIT University), Bhubaneswar	258	141	186	167	202	133	251	1338
45	39	Fr. Conceicao Rodrigues College of Engineering, Mumbai	267	147	158	150	236	147	218	1323

Private engineering colleges: state rankings

Rank		Telangana	Rating (1900)
India 2016	State 2016		
2	1	IIIT, Hyderabad	1628
12	2	BITS, Pilani-Hyderabad campus	1532
31	3	Chaitanya Bharathi Institute of Technology, Hyderabad	1379
32	4	Vasavi College of Engineering, Hyderabad	1374
55	5	MGIT, Hyderabad	1290
57	6	Sreenidhi Institute of Science & Technology, Hyderabad	1281
63	7	CVR College of Engineering, Hyderabad	1267
71	8	VNR Vignana Jyoti Institute of Engineering and Technology, Hyderabad	1232
76	9	Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad	1194
92	10	Vardhaman College of Engineering, Hyderabad	1127
93	11	Muffakham Jah College of Engineering and Technology, Hyderabad	1118

Rank		Uttar Pradesh	Rating (1900)
India 2016	State 2016		
14	1	Amity School of Engineering and Technology, Noida	1458
21	2	Jaypee Institute of Information Technology University, Noida	1441
33	3	JSS Academy of Technical Education, Noida	1372
41	4	Shiv Nadar University, Dadri	1320
56	5	KIET, Ghaziabad	1282
67	6	Ajay Kumar Garg Engineering College, Ghaziabad	1252
68	7	Dayalbagh Educational Institute, Agra	1247
74	8	Galgotias University, Greater Noida	1210

Rungta College, Bhilai: top-ranked in Chhattisgarh



Rank		Tamil Nadu	Rating (1900)
India 2016	State 2016		
3	1	PSG College of Technology, Coimbatore	1607
8	2	Vellore Institute of Technology	1575
10	3	Amrita Institute of Technology & Science Coimbatore	1547
11	4	SSN College of Engineering, Kalavakkam	1542
13	5	SASTRA University, Thanjavur	1519
16	6	Thiagarajar College of Engineering, Madurai	1455
20	7	SRM University, Chennai	1442
24	8	Karunya University, Coimbatore	1407
28	9	Sathyabama University, Chennai	1392
43	10	Mepco Schlenk Engineering College, Sivakasi	1314
45	11	Hindustan Institute of Engineering and Science, Chennai	1312
64	12	Alagappa College of Technology, Chennai	1266
78	13	Veltech Multitech Dr. Rangarajan Dr. Sakunthala Engineering College, Chennai	1184
80	14	Velammal College of Engineering and Technology, Madurai	1182
94	15	Vels University, Chennai	1115
95	16	Kongu Engineering College, Erode	1114
96	17	Easwari Engineering College, Chennai	1102
99	18	Jeppiaar Engineering College, Chennai	1085
100	19	St. Joseph's College of Engineering, Chennai	1084

Rank		Others	Rating (1900)
India 2016	State 2016		
1	1	Rajasthan: BITS, Pilani	1648
25	2	The LNM Institute of Information Technology, Jaipur	1395
49	1	Haryana: Faculty of Engineering and Technology, Manav Rachna International University, Faridabad	1303
58	2	The Northcap University, Gurgaon	1279
65	1	Kerala: Rajagiri School of Engineering and Technology, Ernakulam	1264
72	2	SCMS School of Engineering & Technology, Ernakulam	1218
7	1	Jharkhand: BIT, Mesra	1577
22	1	Goa: BITS, Pilani-Goa campus	1438
38	1	Odisha: Kalinga Institute of Industrial Technology (KIIT University), Bhubaneswar	1338
51	1	Sikkim: Sikkim Manipal University, Gangtok	1300
80	1	Delhi: Maharaja Agrasen Institute of Technology	1182
83	1	West Bengal: Institute of Engineering and Management, Kolkata	1158
98	1	Chhattisgarh: Rungta College of Engineering and Technology, Bhilai	1098
98	1	Puducherry: Sri Manakula Vinayagar Engineering College, Puducherry	1098
99	1	Assam: Royal School of Engineering and Technology, Guwahati	1085

Parameters of excellence: India's Top 10 private engineering colleges

To provide readers, especially aspiring engineers, a comprehensive profile of India's most respected private engineering colleges, the Top 100 national and state league tables are supplemented with Top 10 national rankings on the basis of parameters of excellence.

To compile the national and state rankings, Core field researchers interviewed 1,247 faculty and 1,342 final year students countrywide, asking them to rate engineering colleges on seven parameters, viz. competence of faculty, faculty welfare and development, research and innovation, pedagogic systems and processes, industry interface, placements record, and infrastructure and facilities. Further, the interviewees were also asked to assign weightage to each parameter. The scores awarded by respondents under each parameter were totaled for the purpose of final ratings and ranking.

Unsurprisingly, the 'competence of faculty' parameter was assigned highest weightage (350) indicating that the respondents believe that ability to attract and retain faculty – dependent upon the faculty welfare and development systems – is the most important criterion for assessing the teaching-learning and research capability of engineering (and other) education institutions. Parameter rankings which highlight the prime strengths of highly ranked institutions are useful because they enable students to select institutions whose priorities dovetail with their own.

The national rankings of Top 10 colleges under all seven parameters enumerated above, are set out below.



Dhirubhai Ambani Institute of ICT, Gandhinagar classroom

Rank	2016	Faculty welfare & development	Rating (200)
1		BITS, Pilani	173
2		IIIT, Hyderabad	172
3		Dhirubhai Ambani Institute of ICT, Gandhinagar	169
4		PSG College of Technology, Coimbatore	168
5		Vellore Institute of Technology	166
6		Thapar Institute of Engineering & Technology, Patiala	165
7		RV College of Engineering, Bengaluru	164
8		Amrita Institute of Technology & Science, Coimbatore	163
8		SSN College of Engineering, Kalavakkam	163
9		Manipal Institute of Technology	162
10		SASTRA University, Thanjavur	161
10		PES University, Bengaluru	161
10		BMS College of Engineering, Bengaluru	161

Rank	2016	Competence of faculty	Rating (350)
1		BITS, Pilani	313
2		IIIT, Hyderabad	312
2		BIT, Mesra	312
3		RV College of Engineering, Bengaluru	310
4		PSG College of Technology, Coimbatore	308
5		Dhirubhai Ambani Institute of ICT, Gandhinagar	307
6		Vellore Institute of Technology	306
7		Thapar Institute of Engineering & Technology, Patiala	305
8		Manipal Institute of Technology	302
8		SASTRA University, Thanjavur	302
9		Amrita Institute of Technology & Science, Coimbatore	301
10		SSN College of Engineering, Kalavakkam	300

Rank	2016	Placement	Rating (200)
1		BITS, Pilani	180
2		IIIT, Hyderabad	179
3		BITS, Pilani-Hyderabad campus	177
4		PSG College of Technology, Coimbatore	176
5		Thapar Institute of Engineering & Technology, Patiala	175
6		RV College of Engineering, Bengaluru	173
7		Dhirubhai Ambani Institute of ICT, Gandhinagar	172
7		IIIT, Bengaluru	172
8		BIT, Mesra	171
9		Manipal Institute of Technology	169
10		SSN College of Engineering, Kalavakkam	168

Rank 2016	Pedagogic systems and processes	Rating (250)
1	IIIT, Hyderabad	225
2	Dhirubhai Ambani Institute of ICT, Gandhinagar	224
3	Vellore Institute of Technology	223
4	PSG College of Technology, Coimbatore	220
5	BITS, Pilani	219
6	Thapar Institute of Engineering & Technology, Patiala	218
7	Manipal Institute of Technology	217
8	Amrita Institute of Technology & Science, Coimbatore	207
9	BIT, Mesra	205
9	SSN College of Engineering, Kalavakkam	205
10	SASTRA University, Thanjavur	203

Rank 2016	Industry interface	Rating (300)
1	BITS, Pilani	250
2	IIIT, Hyderabad	248
3	PSG College of Technology, Coimbatore	247
4	Dhirubhai Ambani Institute of ICT, Gandhinagar	245
5	RV College of Engineering, Bengaluru	244
6	Thapar Institute of Engineering & Technology, Patiala	243
7	SSN College of Engineering, Kalavakkam	241
8	Manipal Institute of Technology	240
9	BIT, Mesra	239
9	BITS, Pilani-Hyderabad campus	239
10	Vivekanand Education Society's Institute of Technology, Mumbai	238

Rank 2016	Research and innovation	Rating (300)
1	BITS, Pilani	226
2	PSG College of Technology, Coimbatore	219
3	Vellore Institute of Technology	217
4	Thapar Institute of Engineering & Technology, Patiala	216
5	Amrita Institute of Technology & Science, Coimbatore	215
6	IIIT, Hyderabad	214
7	Manipal Institute of Technology	211
8	BIT, Mesra	210
9	RV College of Engineering, Bengaluru	208
10	SASTRA University, Thanjavur	206

Rank 2016	Infrastructure and facilities	Rating (300)
1	BITS, Pilani	287
2	BIT, Mesra	284
3	BITS, Pilani-Hyderabad campus	283
4	Dhirubhai Ambani Institute of ICT, Gandhinagar	282
5	Manipal Institute of Technology	280
6	IIIT, Hyderabad	278
7	Vellore Institute of Technology	277
8	Amity School of Engineering and Technology, Noida	275
9	Amrita Institute of Technology & Science, Coimbatore	271
10	BITS, Pilani-Goa campus	270

India's Top 50 private B-schools league table

Rank		School Name	Competence of faculty (200)	Faculty welfare & development (100)	Pedagogic systems and processes (100)	Industry interface (100)	Research (100)	Infrastructure and facilities (100)	Placement (100)	Value for money (100)	Alumni quality (100)	TOTAL SCORE (1000)
2013	2016											
2	1	Xavier School of Management (formerly XLRI), Jamshedpur	170	86	90	80	52	90	97	79	91	835
3	2	S.P. Jain Institute of Management & Research, Mumbai	161	85	89	88	43	72	96	80	87	801
6	3	NMIMS (Narsee Monjee Institute of Management Studies), Mumbai	160	84	88	79	57	77	91	78	84	798
4	4	Institute of Management Technology (IMT), Ghaziabad	152	83	80	76	56	89	88	76	82	782
9	5	Symbiosis Institute of Business Management (SIBM), Pune	150	79	82	77	54	82	82	77	84	767
7	6	Xavier Institute of Management, Bhubaneswar	153	80	76	60	53	91	79	75	83	750
5	7	International Management Institute, New Delhi	151	81	77	78	53	70	80	75	82	747
8	8	T.A. Pai Management Institute (TAPMI), Manipal	149	82	79	70	51	88	74	76	75	744
15	9	KJ Somaiya Institute of Management Studies, Mumbai	147	77	76	69	44	73	78	74	74	712
13	10	Symbiosis Centre for Management & Human Resource Development, Pune	146	76	75	61	36	82	77	69	79	701
12	11	Birla Institute of Management Technology, Greater Noida	144	76	72	60	42	87	73	67	72	693
14	12	Fore School of Management, New Delhi	146	77	73	66	41	67	74	68	73	685
21	13	Amrita School of Business, Coimbatore	149	76	75	54	40	87	61	66	75	683
24	14	Loyola Institute of Business Administration (LIBA), Chennai	145	76	74	59	40	65	73	73	77	682
17	15	Institute of Management, Nirma University, Ahmedabad	141	76	75	57	39	83	72	67	71	681
25	16	Goa Institute of Management, Panjim	142	75	68	54	39	87	72	70	70	677
10	17	IFMR, Chennai/Chittoor	134	77	78	63	41	74	70	67	72	676
23	18	Prin. L.N. Welingkar Institute of Management Development and Research, Mumbai	143	73	75	68	37	66	70	68	72	672
26	19	Christ University Institute of Management, Bengaluru	137	74	73	58	38	71	72	72	76	671
20	20	Amity Business School (Amity University), Noida	141	70	68	63	37	84	70	66	69	668
11	21	Alliance School of Business, Bengaluru	134	74	68	57	38	90	71	67	68	667
22	22	Lal Bahadur Shastri Institute of Management, New Delhi	137	74	71	59	38	70	70	75	72	666
37	23	Rajagiri Centre for Business Studies, Kochi	133	75	74	58	39	87	57	71	71	665
NR	24	Birla Institute of Technology & Science (BITS), Pilani	142	78	68	60	38	72	72	66	68	664
16	25	PSG Institute of Management (PSG College of Technology), Coimbatore	139	73	72	58	39	68	67	71	70	657
29	26	S.I.E.S. College of Management Studies, Navi Mumbai	140	73	71	58	38	69	67	69	68	653
31	27	Balaji Institute of Modern Management, Pune	129	71	67	54	34	89	68	67	72	651
27	28	Institute of Management Technology (IMT), Nagpur	137	68	71	54	36	90	67	62	65	650
NR	29	Institute of Management Technology (IMT), Hyderabad	129	74	73	58	38	90	60	63	61	646
30	30	ICFAI Business School, Hyderabad	130	69	70	58	36	89	66	59	68	645
32	31	S.C.M.S. Cochin School of Business	129	69	69	55	36	86	58	62	68	632
NR	32	Symbiosis Institute of International Business, Pune	145	68	65	51	32	65	73	70	62	631
33	33	ITM Business School, Navi Mumbai	127	70	68	58	36	81	60	63	67	630
NR	34	Jaipuria Institute of Management, Lucknow	132	70	70	55	36	69	65	63	67	627
36	35	KIIT School of Management, Bhubaneswar	124	68	67	50	34	82	73	64	64	626
NR	36	Flame School of Business, Pune	128	67	63	63	35	74	64	63	68	625
28	37	S.D.M. Institute for Management Development, Mysuru	127	72	64	50	37	82	62	64	66	624
NR	38	Symbiosis Institute of Telecom Management, Pune	138	69	65	52	36	63	68	67	64	622
NR	39	Kirloskar Institute of Advanced Management Studies, Harihar	132	71	68	48	37	78	57	61	67	619

Private B-schools: state rankings

Rank		Others	Rating (1000)
India 2016	State 2016		
23	1	Kerala: Rajagiri Centre for Business Studies, Kochi	665
31	2	S.C.M.S. Cochin School of Business	632
6	1	Odisha: Xavier Institute of Management, Bhubaneswar	750
35	2	KIIT School of Management, Bhubaneswar	626
1	1	Jharkand: Xavier School of Management, Jamshedpur	835
15	1	Gujarat: Institute of Management (Nirma University), Ahmedabad	681
16	1	Goa: Goa Institute of Management, Panjim	677
41	1	Punjab: Chitkara Business School, Patiala	614
43	1	Andhra Pradesh: Gitam Institute of Management (Gitam University), Visakhapatnam	611
50	1	West Bengal: Heritage Business School, Kolkata	592
24	1	Rajasthan: BITS, Pilani	664
45	2	Jaipuria Institute of Management, Jaipur	609

Rank		Uttar Pradesh	Rating (1000)
India 2016	State 2016		
4	1	IMT, Ghaziabad	782
11	2	Birla Institute of Management Technology, Greater Noida	693
20	3	Amity Business School (Amity University), Noida	668
34	4	Jaipuria Institute of Management, Lucknow	627
44	5	Jaipuria Institute of Management, Noida	610

The high quality of management education institutions ranked in the EW Private B-schools league table is testified by the high state rankings of institutes not ranked among the Top 10.

Parameters of excellence: India's Top 10 B-schools

To provide readers, especially aspiring business managers, a comprehensive profile of India's most respected private B-schools, the Top 50 national league table is supplemented with Top 10 national rankings on the basis of parameters of excellence.

To compile the rankings league table of the country's Top 50 Private B-schools, C fore field researchers interviewed 542 faculty members and 522 final year students of a mix of B-schools countrywide and 133 industry representatives, asking them to rate business management schools other than their own on nine parameters, *viz*, competence of faculty, faculty welfare and development, research orientation, pedagogic systems and processes, industry interaction, placement record, infrastructure, alumni quality and value for money. Equal weightage (100) was given to each parameter except the critical 'competence of faculty' which was weighted at 200. The ratings given by respondents under each parameter were totaled to arrive at an aggregate score according to which India's Top 50 private B-schools are ranked.

Parameter rankings which highlight the prime strengths of highly ranked institutions are useful because they enable students to select institutions whose strengths match with their priorities.

Rank	Faculty welfare & development	Rating (100)
2016		
1	Xavier School of Management, Jamshedpur	86
2	S.P. Jain Institute of Management & Research, Mumbai	85
3	NMIMS, Mumbai	84
4	IMT, Ghaziabad	83
5	T.A. Pai Management Institute, Manipal	82
6	International Management Institute, Delhi	81
7	Xavier Institute of Management, Bhubaneswar	80
8	Symbiosis Institute of Business Management, Pune	79
9	BITS, Pilani	78
10	KJ Somaiya Institute of Management Studies, Mumbai	77
10	Fore School of Management, Delhi	77
10	IFMR, Chennai/Chittoor	77