

Times Engineering

AN OMS INITIATIVE with The Times of India

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Advertorial, Education Promotional Feature

Times Group partnered with i3 Research Consultants to conduct its first Engineering College 2014 survey to determine the top engineering colleges in India.

RESEARCH METHODOLOGY

The objective of this research was to arrive at a list of top engineering institutes in India. The study had two major modules: Perceptual rating survey and Factual survey.

In the first module, based on convenience sampling, a structured questionnaire was administered to selected respondents to arrive at a

ranking and rating of engineering colleges in India. The initial list had over 600 engineering colleges, though each respondent was asked to give ratings for only those colleges that he/she was aware of and a maximum of 20 colleges to avoid investigation fatigue to ensure quality data.

A sample survey of 1,500 was conducted in select cities of Class-A (Delhi-NCR, Mumbai, Chennai, Kolkata, Bangalore, Hyderabad and Ahmedabad) and Class-B (Chandigarh, Pune, Indore, Jaipur, Lucknow, Bhubaneswar and Ranchi).

A geographical spread of the sample

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was ensured by multiple starting points spread across the city.

There were two main respondent categories who were interviewed to evaluate an engineering institute, those who had the experience of such institutes (Experiential) and those who were searching, aspiring for engineering and evaluating these school (Perceptual). The respondent categories included:

EXPERIENTIAL

- Engineering college faculty
- HR consultants who hire from engineering colleges
- Alumni of an engineering college

For more detailed information about the Engineering Institute

survey, log on to: www.times-engineering-survey.com

PERCEPTUAL

- Students aspiring to take admission in an engineering college
- Parents of students aspiring for admission in an engineering college
- An extensive five-week fieldwork was conducted beginning the first week of May 2014



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Engineering Institute Survey: Rank 1-50

RANK	INSTITUTE/ ENGINEERING
1	IIT Kharagpur
2	IIT Guwahati
3	IIT Kanpur
4	IIT Bombay
5	IIT Delhi
6	Delhi College of Engineering - New Delhi
7	SRM Institute of Science and Technology - Chennai
8	IIT Roorkee
9	IIT Madras
10	NIT Durgapur
11	Visvesvaraya National Institute of Technology (VNIT) - Nagpur
12	BMS College of Engineering - Bangalore
13	International Institute of Information Technology (IIIT) - Pune
14	Veermata Jijabai Technological Institute (VJTI) - Mumbai
15	BITS - Pilani
16	BIT, Mesra - Ranchi
17	IT-BHU - Varanasi
18	Vishwakarma Institute of Technology (VIT) - Pune
19	Amity School of Engineering & Technology - Noida
20	Sardar Patel College of Engineering - Mumbai
21	Manipal Institute of Technology - Manipal
22	Maharashtra Institute of Technology - Pune
23	College of Engg, Anna University - Guindy
24	NIT - Suratkal
25	Jawaharlal Nehru Technological University (JNTU) - Hyderabad
26	SASTRA - Thanjavur
27	Jamia Millia Islamia - New Delhi
28	Vellore Institute of Technology - Vellore
29	LD College of Engineering - Ahmedabad
30	IIT Gandhinagar
31	National Institute of Engineering - Mysore
32	Nirma Institute of Technology - Ahmedabad
33	D Y Patil Group's: Ramrao Adik Institute of Technology - Navi Mumbai
34	International Institute of Information Technology (IIIT) - Hyderabad
35	NIT - Rourkela
36	International Institute of Information Technology (IIIT) - Bangalore
37	NIT - Patna
38	Manav Rachna College of Engineering, Faridabad
39	SSN College of Engineering - Chennai
40	Mumbai University Inst of Chemical Tech - Mumbai
41	Govt. College of Engineering - Pune
42	Graphic Era Institute of Technology (GEU)- Dehradun
43	M.S. Ramaiah Institute of Technology - Bangalore
44	R.V. College of Engineering - Bangalore
45	Guru Nanak Dev Engineering College - Ludhiana
46	MIT College of Engineering, Pune
47	Netaji Subhas Institute of Technology - New Delhi
48	College of Engineering - Trivandrum
49	NIT Jamshedpur
50	Kalinga Institute of Industrial Technology - Bhubaneswar

Engineering Institute Survey: Rank 50-100

RANK	INSTITUTE/ ENGINEERING
51	Jiwaji University - Gwalior
52	NIT Warangal
53	Rizvi College of Engineering, Bandra - Mumbai
54	Sardar Vallabhbhai National Institute of Technology (SVNIT) - Surat
55	NIT Jalandhar
56	IIT Hyderabad
57	Indian School of Mines - Dhanbad
58	Vishwakarma Government Engineering College, Ahmedabad
59	ITM University, Gurgaon
60	BIT Sindri
61	Vasavi College of Engineering - Hyderabad
62	Government Engineering College, Surat
63	Indian Institute of Information Technology (IIIT) - Allahabad
64	Bharati Vidyapeeth, Pune
65	Jawaharlal Nehru Technological University (JNTU) - Kakinada
66	Jadavpur University, Faculty of Engg & Tech - Calcutta
67	Bangalore Institute of Technology - Bangalore
68	NIT Kozhikode
69	Jawaharlal Nehru Technological University (JNTU) - Anantpur
70	S.J. College of Engineering - Mysore
71	University Visvesvaraya College of Engg. - Bangalore
72	Dhirubhai Ambani ICT - Gandhinagar
73	P.E.S. Institute of Technology - Bangalore
74	IIT, Bhubaneswar
75	IITM - Delhi
76	Haldia Institute of Technology, Haldia
77	GNIT - Delhi
78	K.L. College of Engineering - Veddeswaram
79	Cummins College of Engg for Women - Pune
80	Punjab Engineering College - Chandigarh
81	JIS College of engineering - Kolkata
82	Orissa University of Agriculture and Technology, Bhubaneswar
83	Medi-Caps Institute of Technology and Management- Engineering, Indore
84	Rustamji Institute of Technology, Gwalior
85	Government School of Engineering and Technology, Vikram University, Ujjain
86	Amity School of Engineering & Technology, Lucknow
87	Institute of Engineering and Science, IPS Academy, Indore
88	Institute of Engineering and Technology, Indore
89	Narsee Monjee Institute of Management Studies, Mumbai
90	Government College of Engineering, Amravati
91	KJ Somaiya College of Engineering, Mumbai
92	Lakshmi Narain College of Technology, Indore
93	S.G.S. Institute of Technology & Science - Indore
94	Xavier Institute of Engineering, Mumbai
95	Maharashtra Academy of Naval and Training MANET - Pune
96	Shri Ram Institute of Technology, Jabalpur
97	Bhilai Institute of Technology, Durg
98	Atharva College of Engineering, Malad - Mumbai
99	Maulana Azad National Institute of Technology (MANIT) - Bhopal
100	Shri Ramdeo Baba K.N. Engineering College - Nagpur

Engineering Institute Survey: Rank 1-50 (Private)

RANK	INSTITUTE/ ENGINEERING
1	SRM Institute of Science and Technology - Chennai
2	BMS College of Engineering - Bangalore
3	BITS Pilani
4	BIT, Mesra - Ranchi
5	Vishwakarma Institute of Technology (VIT) - Pune
6	Amity School of Engineering & Technology - Noida
7	Manipal Institute of Technology - Manipal
8	Maharashtra Institute of Technology - Pune
9	SASTRA - Thanjavur
10	Vellore Institute of Technology - Vellore
11	National Institute of Engineering - Mysore
12	Nirma Institute of Technology - Ahmedabad
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20	MIT College of Engineering, Pune
21	Kalinga Institute of Industrial Technology - Bhubaneswar
22	Rizvi College of Engineering, Bandra - Mumbai
23	ITM University, Gurgaon
24	Vasavi College of Engineering - Hyderabad
25	Bharati Vidyapeeth - Pune
26	Bangalore Institute of Technology - Bangalore
27	S.J. College of Engineering - Mysore
28	Dhirubhai Ambani ICT - Gandhinagar
29	P.E.S. Institute of Technology - Bangalore
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44	Shri Ram Institute of Technology, Jabalpur
45	Bhilai Institute of Technology - Durg
46	Atharva College of Engineering, Malad - Mumbai
47	Shri Ramdeo Baba K.N. Engineering College - Nagpur
48	Bharati Vidyapeeth College of Engineering, Navi Mumbai - Mumbai
49	Indira College of Engineering - Pune
50	PCMC College of Engineering - Pune

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MODULE 1 | SHORTLISTING OF ELIGIBLE ENGINEERING COLLEGES

The module 1 was a secondary research module. A comprehensive list of engineering institutes was generated with the help of the internet, magazines and other publications. The various sources used for generation of engineering college list included:

- AICTE-approved list of colleges
- List of colleges from previous surveys

● A discussion with industry experts to add/ delete any institute to ensure a comprehensive list

In addition, two criteria of short-listing was applied:

- Institutes that have, as on April 2014, at least three graduate batches
- Colleges/institutes that offer at least undergraduate courses

ANALYSIS: FINAL RANKING OF ENGINEERING COLLEGE

A robust approach was followed to arrive at the final rankings. The step-by-step process is given below:

PERCEPTUAL SCORE

- > Ratings on various parameters for each college
- > Calculating importance of various parameters to arrive at weights for each parameter – a regression model was used to arrive at the importance of various parameters
- > Calculation of raw scores and weighted scores for each parameter
- > Calculation of overall score for each college using importance weightages

FACTUAL SCORE

- > The information collected corresponded to similar parameters as in the perceptual survey
- > A detailed scoring system was developed for each parameter
- > After assigning scores to each parameter, raw scores were calculated
- > The raw scores were weighted by their importance to arrive at weighted scores
- > The final college score was calculated as in the perception survey
- The final score for an engineering institute was an average of Perception Score and Factual Score - equal weight age was given to both

Some caveats/ assumptions:

- Only those colleges for whom we received more than 30 responses, were included in the ranking
- Finally a total of 204 colleges fulfilled that criteria
- Further a few colleges refused to participate in the survey – such colleges were removed from the list
- Some of the colleges could not provide the factual data completely for their colleges
- > For all such gaps, an average score was assigned to the college concerned. Given that there is a fair variation in various colleges, Q1, Q2 and Q3 as well as top 10 percentile were calculated to apply averages to various colleges

NOTE: The final rankings provided by 13 Research Consultants have been subjectively moderated based on other qualitative inputs by the Times of India

MODULE 2 | PERCEPTUAL SURVEY

A perception questionnaire was administered to respondents. The same also checked for awareness scores. Respondents were allowed to respond for those engineering institute only which were known to them.

Respondents were provided a list of parameters to evaluate the engineering institute and rate on a scale of 1-10 where 1 was poor and 10 was excellent. The list of parameters to be covered in the survey was arrived at based on past surveys as well as discussions with experts from the engineering fraternity – faculty, HR, among others.

As mentioned above, five different stakeholders were taken into consideration for the national perceptual survey: Faculty, HR executives, alumni, parents of aspiring students and students aspiring for an engineering course.

The questionnaire was so designed that both experiential and perception target respondents were exposed to the same parameters – this ensured that the scores of different stakeholders could be correlated and collated to arrive at a single final score.

MODULE 3 | FACTUAL DATA COLLECTION

600 engineering colleges were sent the factual data questionnaire and then rigorously followed up telephonically as well as physically.

The factual data sheet was used with a purpose to one, validate findings of perception study, by correlating with factual data (we got a correlation score of 0.78) and two, to calculate scores in case of data gaps (in case of institutes not responding/late reply)

THE FACTUAL DATA SHEET WAS FOCUSED ON THE FOLLOWING INFORMATION AREAS:

- General information of the college: Establishment, College type, Affiliation etc.
- Courses offered and number of seats
- Selection criteria
- Infrastructure
- Faculty
- Intellectual capital
- Industry interface
- Placement
- Potential to network
- Exchange programs and global exposure
- Alumni chapter – national and international

ENLIGHTENING MINDS, INSPIRING TECHNOLOGY

DY Patil Engineering Institutes: Relying on four Fs—Faculty, Facilities, Feedback and Foresightedness

With its commitment and dedication, DY Patil Group has earned the reputation of being a provider of quality education in areas of professional significance. Its engineering colleges in Pune and Navi Mumbai are popular among students for their faculty and facilities, environment and culture.

While one is pleasantly surprised at the lush green surroundings, equally inspiring is the urban infrastructure. Equipped with the latest technology and facilities, these institutes manage to retain the serenity of a holistic educational experience conducive to academic excellence and practical learning.

Speaking on the key features of DY Patil Engineering institutes, Dr. Vijay D Patil, President, DY Patil University, Navi Mumbai, explains, “Most important is the state-of-the-art technology-solution for students. Students that are native to technology cannot be taught with traditional methods – and hence the use of interactive methodologies is most important.”

Dr. Patil stresses on the need for an excellent faculty-students interaction. He adds, “While we are looking at the advancement in technology as a facilitator, we are making sure that student-teacher interaction remains to the optimum, higher the interaction better the learning and guidance.”

He also emphasises that students should do their ground work and research in choosing the right institution prior to seeking admission. “Students need to study the faculty, the physical environment where they would be taught, placement records, feedback from alumnus of various institutions, facilities for personality development beyond education, sports facility and more. They have to look at an institution in totality in terms of what it offers to its students.”

He added that in spite of the advent of a number of new career options, en-



gineering would always be among preferred choice. “There is immense growth in the country’s infrastructure – and it means large number of bridges, roads, rails and more. Manufacturing sector too is poised to grow rapidly. Till the time there is growth in the nation, traditional branches of engineering would never run out of fashion. In addition, some niche areas too are getting developed to take care of specialised needs and interests.”

A LOOK AT DY PATIL ENGINEERING INSTITUTES

Dr. DY PATIL COLLEGE OF ENGINEERING, which was established in 2009, offers Bachelors programs in Computer Technology, Electronics and Telecommunication, Information Technology and Mechanical Engineering as well as Master’s programs in ME E & TC (VLSI & Embedded System) and ME Computer.

Dr. DY PATIL INSTITUTE OF ENGINEERING AND TECHNOLOGY offers Degree course in Civil Engineering, Computer Engineering, Information Technology and Mechanical Engineering and Masters programs in ME

Mechanical (Mechanical Design) and ME Civil (Construction Management).

Dr. DY PATIL SCHOOL OF ENGINEERING ACADEMY offers Degree course in Civil Engineering, Computer Engineering, Automobile Engineering, E&TC Engineering and Mechanical Engineering and Masters programs in ME Mechanical (Heat Power Engineering) and ME Electronics (Signal Processing).

All these three institutes located in Talegaon Pune campus are affiliated to the University of Pune. The institutes focus on keeping up with the changing trends, while at the same time staying in step with technology.

Standing tall in the sprawling DY Patil Vidyapeeth Campus since the last 30 years, the **Ramrao Adik Institute of Technology, affiliated to the University of Mumbai**, is one of the oldest and finest institutes in Navi Mumbai. Experienced teachers, amicable environment, state-of-the-art infrastructure and best of the amenities make it one of the favoured colleges among engineering aspirants. Among the courses that the college offers are Electronics, Computer, Instrumentation, Information Technology and Electronics and Telecommunication.

The college has counsellors and redressal cells to take care of student’s worries and grievances. In addition, it has an effective feedback mechanism in place. Scholarship and tuition waiver facilities are also available for deserving candidates.

An interesting and socially and environmentally relevant step taken by DY Patil Engineering students is generating biogas from the bio-waste that is generated in its canteen kitchens. This biogas powers entire street-light in Navi Mumbai facility as well as there are vehicles that run on bio-gas. The entire activity was driven by the students.

