



AICTE-CII Survey of Industry-Linked Technical Institutes 2013

Background and Methodology

This study was initiated by CII jointly with AICTE with the objective of mapping industry linkages of AICTE-approved technical institutions in the country. The study covered the following streams — Engineering, Management, Pharmacy and Architecture. In Engineering there were nine categories under which institutes could file their applications-- Chemical, Civil, Computer & IT (taken together), Electrical, Electronics & Communication, Mechanical Engineering, Mining & Metallurgy, Biotechnology / Biochemical / Biomedical and Agriculture. Any category other than this was covered under "All Others in Engineering". In this category, mainly Textile Engineering institutes / branches filed their applications. Some other specialisations in which institutes applied in the survey under "All Others" category were Mechatronics, Food Technology, Instrumentation and Tool and Dye Engineering.

The evaluation was done across six parameters namely, faculty, placements, curriculum, services, infrastructure and governance; each consisting of specific sub-factors. A detailed report on the entire process was prepared which analysed the depth of institutes' engagement with industry and also looked at how far they had been able to provide demand-based, industry-responsive education. The purpose of the survey was to see how well these institutes are equipped to churn out talent to meet market requirements; and how industry with its regular connect with these institutes is able to advise on what is happening in the market.

The institutes were evaluated across six dimensions and each of these six dimensions was allotted individual weightages as shown in the table below:

S. No	Dimensions	Weightage and Scores
1.	Faculty	20% (Maximum score 28)
2.	Placements	20% (Maximum score 18)
3.	Curriculum	20% (Maximum score 16)
4.	Services	20% (Maximum score 16)
5.	Infrastructure	10% (Maximum score 10)
6.	Governance	10% (Maximum score 7)
	Total Weightage	100%
	Total Score	95

Structured questions and evaluation parameters were designed across each of the dimensions. The institutes were asked to answer the following questions against each parameter.

No.	Dimensions	Evaluation parameters

No.	Dimensions	Evaluation parameters
1.	Faculty	 Number of faculty members who provided training / lectures to industry during 2012-13 as a percentage of total faculty Number of faculty members on the boards of industry / advisory, academic councils / statutory university bodies as a percentage of total faculty Number of man-days of refresher courses provided by faculty to industry executives during 2012-13 Number of man-days of programmes attended / trainings received by faculty from industry during 2012-13 Number of faculty patents, design and other Intellectual Property Rights (IPRs) except copyrights of books in 2012-13 (Granted) Number of faculty patents, design and other Intellectual Property Rights (IPRs) except copyrights of books in 2012-13 (Filed)
2.	Placements	 Number of companies with stream/ specialization specific job profile coming to campus Number of students offered jobs from campus during 2012-13 Number of students offered jobs in specialization/ stream specific companies in 2012-13
3.	Curriculum	 Number of companies providing training / internship Number of industry visits for students Percentage of visiting faculty from industry as compared to core faculty Number of industry guest lectures / seminars conducted
4.	Services	 Number of contractual research projects assigned to institute during 2012-13 Number of technology transfers to industry during 2012-13 Number of consultancy / advisory services provided to industry during 2012-13
5.	Infrastructure	 Number of centers/ units/ cells financially supported by industry Percentage of financial contribution by industry in the unit
6.	Governance	 Number of Industry members on Board of Governors / Advisory Councils Percentage of Industry members attending Board of Governors / Advisory Council

The absolute scores of institutes for every parameter were divided by the maximum score for that parameter and multiplied by the weightage of that parameter to obtain the weighted score for every parameter. The sum of weighted scores across the six parameters was the objective score of each institute. Following is the manner in which scores were given:

1			ndustry in curriculum (2					
			es providing Industrial tr					
1.1	0	1 to 5	6 to 10	11 to 15	> 15			
	0	1	of Industry visits for stu	3	4			
1.2	0	1 to 3	of Industry visits for stu 4 to 5	6 to 10	> 10			
	0	1	2	3	4	-		
		Percentage of visting f	faculty from industry as	compared to core faculty	i	Max score-16		
1.3	0	1-10%	11-20%	21-30%	>30%			
	0	1	2	3	4			
1.4	0	1 to 5	try guest lectures / semi 6 to 10	11 to 15	> 15			
1.7	0	1	2	3	4			
			I.		l.	I		
2								
			provided training / lectur			As a % of total faculty		
2.1	0	1-25% 1	25-50%	51-75% 3	>75%	members		
			industry / advisory, acad					
2.2	0	1-10%	11-20%	21-30%	>30%	As a % of total faculty members		
	0	1	2	3	4	members		
		days of refresher cours	es provided by faculty to		ring 2012-13	Add the number of days for		
2.3	0	1 to10	11 to 20	21 to 30	>30	each faculty member		
	0 No. of man-day	1 s of programmes atter	2 nded/ trainings received	by faculty from industry	4 during 2012-13			
2.4	0	1 to 10	11 to 20	21 to 30	>30	Add the number of days for		
_	0	1	2	3	4	each faculty member		
	No. of facu	ty patents, design and	other IPRs except copy	ights of books in 2012-1	3 GRANTED			
2.5	0	1 to 2	3 to 4	5 to 6	>6			
	0	2	4	6	8			
2.6	0	1 to 2	nd other IPRs except cop 3 to 4	5 to 6	>6			
2.0	0	1	2	3	4	Max score-28		
			•	•	•	*		
3			dustry in infrastructure (
			units/ cells financially s					
3.1	0	1 to 2	3 to 4	>		Max score-10		
	<u> </u>			0 2 4 6 % of financial contribution by industry in the unit				
2.2				rv in the unit				
3.2	<10%	10-20%	21-50%	51-75%	>76%	Financial contribution as a		
3.2	<10% 0				>76% 4	Financial contribution as a % of expenditure of the cell		
		10-20%	21-50%	51-75% 3				
3.2	0	10-20% 1	21-50% 2 try research/ consultation	51-75% 3	4			
4	O Nu	10-20% 1 Indus	21-50% 2 htry research/ consultations	51-75% 3 on (20%) d to institute during 201	4 2-13			
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It is important to note that, while four of the parameters were given a weightage of 20%, the maximum score that an institute could achieve for each parameter differed. The survey was structured so that the maximum score available for a strong performance in the faculty parameter was 28, for example, whereas the maximum score for placements was 18, and 16 for both curriculum and research and consultation. This reflects the fact that a strong faculty is the key to developing strong linkages with industry. Performance in the faculty parameter is therefore of prime importance for achieving a high final score in this survey. Institutes' priority should be to strengthen and empower their faculty, rather than to focus first on their infrastructure or governance.

Validation Process: Based on the objective scores, a shortlist of 147 institutes was created and the institutes were asked to send all correspondences, letters, certificates, brochures, books, pamphlets or any other document which could validate their entries on the portal. Papers of all the institutes were scrutinized and a high-level Jury met to evaluate the process.

After validating in detail the procedure followed for scrutiny of documents and after analyzing the objective scores for every stream, the Jury shortlisted the top quartile in every stream for the last leg of evaluation—spot visits. These were undertaken to 37 institutes across various streams.