



AICTE-CII Survey of Industry-Linked Engineering Institutes

Background Note & Methodology

Excellence in higher education is the key to success of any society and plays an important role in a nation's development. Globally, excellence in higher education and especially engineering education has thrived on robust industry linkages and collaborations. Producing quality Human Resource and contributing to social and economic development through research are two vital indicators of excellence of engineering institutions. In India, while we have a few success stories of such industry linkages, we still have to go a long way to match the global benchmark.

First-ever mapping

With the belief that while a lot remains to be done on many fronts, there are even today many institutes which are doing things the right way and to bring to light case studies of excellence from industry perspective, AICTE and CII undertook a survey of industry linkages of engineering institutes in an online mode between 7th June 2012 and 7th September 2012.

The survey covered six basic streams of engineering—Mechanical, Civil, Chemical, Computer & IT, Electronics & Communication and Electrical. The eligibility criteria for participation was that the institute should have been affiliated with AICTE, should have been offering at least three out of the six specified streams and should have completed 10 years as on 31st August 2012. The mode of filing of entries was online and the survey was conducted through the web portal of AICTE. The back-end and technical part of the survey was handled by AICTE's technical team.

Objective, computer-generated scores were used for shortlisting of institutes. The shortlisting was done by a high-level jury which set a minimum threshold of objective scores for both institutes as well as faculty. A high-level expert team

comprising representatives of AICTE and CII finally visited the short-listed institutes to validate their entries and to do an on-the-spot assessment of their linkages with industry. Shortlisted candidates for faculty awards were interviewed by a high-level committee in Delhi.

The finalists were given industry-sponsored awards. Following three categories of awards were instituted—Overall Best Industry-Linked Engineering Institute (three awards—Platinum, Diamond, Gold), Stream-Wise Best Industry-Linked Engineering Institute (six awards—one for each stream) and Stream-Wise Faculty with Outstanding Contribution to Industry (18 awards—three for each stream).

Corporates which pledged support in 2012 for the awards were:-

1. Infosys Ltd—for Computers and IT Engineering
2. Tata Chemicals—for Chemical Engineering
3. Forbes Marshall—for Electrical Engineering
4. Elico Ltd—for Electronics and Communication Engineering
5. Hi-Tech Gears—for Mechanical Engineering
6. Mindlogicx Infratec—for Overall awards

Eligibility for participation

The institute should have been:

- Operational for at least 10 years as on August 2012.
- Offering at least 3 streams out of following 6 streams – Chemical, Civil, Computer & IT, Electrical, Electronics & Communication and Mechanical Engineering, for at least 10 years as on August 2012.

The institutes were evaluated across 7 dimensions and each of these 7 dimensions was allotted individual weightages as shown in the table below:

S. No	Dimensions	Weightage
1.	Governance	10%
2.	Curriculum	15%

3.	Faculty	15%
4.	Infrastructure	10%
5.	Services	20%
6.	Placements	20%
7.	Entrepreneurship	10%
Total		100%

Structured questions and evaluation parameters were designed across each of the dimensions mentioned above and respondents were asked to provide answers to the questions during the survey. The table below shows the evaluation parameters against each dimension.

No.	Dimensions	Evaluation parameters
1.	Governance	<ul style="list-style-type: none"> Number of Industry members on Board of Governors Percentage of Industry members attending Board of Governors meetings last year Number of Industry members on Institute's committees Percentage of Industry members attending committee meetings last year
2.	Curriculum	<ul style="list-style-type: none"> Number of courses that received amendments after inputs from industry Average duration of Industrial training/ internship Number of Industry visits for students Number of students visiting industry Number of Industry guest lecturers/ seminars conducted
3.	Faculty	<ul style="list-style-type: none"> Number of executive programmes provided by faculty to industry executives Number of Industry executives attending such courses Number of faculty members on the boards of industry Number of faculty members provided in-company training/ lecture are to industry Number of programmes attended/ trainings received by faculty from industry Number of faculty members who have sent/ presented papers to industry Number of faculty patents adopted by industry into products
4.	Infrastructure	<ul style="list-style-type: none"> Number of centers/ units/ cells financially supported by industry Percentage of financial contribution by industry in the unit
5.	Services	<ul style="list-style-type: none"> Number of research projects assigned to institute during 2007-12 Number of technology transfers to industry during 2007-12 Number of consultancy/ advisory services provided to industry during 2007-12 Number of infrastructures used by industry during 2007-12 Number of testing services provided to industry during 2007-12
6.	Placements	<ul style="list-style-type: none"> Number of students offered jobs from campus in 2011-12 Number of students offered jobs from campus during 2007-12 Number of students offered jobs in respective core companies

No.	Dimensions	Evaluation parameters
		in 2011-12
7.	Entrepreneurship	<ul style="list-style-type: none"> • Number of companies providing mentoring/ teaching/ funding to incubates during 2007-12 • Number of innovation initiatives supported by industry during 2007-12

The absolute data was multiplied with respective weights of each parameter and then the total objective score calculated.