

Review of Department of Chemical Engineering

Dated: 16/12/2013

Table 1: Qualitative Evaluation

Item No.	Item Description	Assessment by the evaluators (circle the one which is most appropriate) *	Remarks
A1	Infrastructure	Good / Satisfactory / Not satisfactory	1. Additional small meeting and conference rooms are required with the expected growth of the department 2. Additional lab space is needed with the increased PG students and sponsored projects.
A2	Finance	Good / Satisfactory / Not satisfactory	1. Department has acquired expensive and sophisticated necessary equipment over the years and would require fund for maintenance of the same in future.
A3	Curriculum and Courses offered	Good / Satisfactory / Not satisfactory	1. Future vision needs to be formed into a well-defined program and path of implementation.
A4	Research Activities	Good / Satisfactory / Not satisfactory	1. More efforts need to be taken in the area of technology transfer, IPR and patents and industrially sponsored projects.
A5	Motivational environments for academic works	Good / Satisfactory / Not satisfactory	1. Additional lab space for research needs to be created. 2. Higher number of scientific officer and technical assistants are needed to assist high end equipments available in the department.
A6	Faculty Development Programme	Good / Satisfactory / Not satisfactory	1. Number of PhD seats need to be increased. 2. Faculty exchange programs and MOU with other institutes need to be improved
A7	Academic Collaboration (National / International)	Good / Satisfactory / Not satisfactory	1. Efforts need to be taken to attract international students. 2. Number of conferences, seminars covering broader area need to be organized. 3. Visiting of international faculty should also be encouraged.
A8	Personality Development Programme for students	Good / Satisfactory / Not satisfactory	1. Some specific areas for students departmental academic/professional activities should be allotted.
A9	External stakeholder engagement	Good / Satisfactory / Not satisfactory	1. Industrial participation through project participation and evaluation should increase.
A10	Participation in Institute's Administration and other Activities	Good / Satisfactory / Not satisfactory	1. A clear cut future vision for next 5 years, 10 years and next 25 years should be worked out.

*Good: ≥ 90%, Satisfactory: 70% to < 90%, Not satisfactory: < 70%



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Table 2: Quantitative Evaluation

$W_i A_i$	W_i		Total	Total obtained	a	b	c	d	e	f	g	h	i	J	k	l
13.5	0.15	A1	100	90	25	22	20	23	-	-	-	-	-	-	-	-
12	0.15	A2	100	80	80	-	-	-	-	-	-	-	-	-	-	-
13.5	0.15	A3	100	90	40	15	5	30	-	-	-	-	-	-	-	-
12.6	0.15	A4	100	84	20	10	15	5	8	5	5	7	9	-	-	-
7.4	0.1	A5	100	74	8	5	10	7	5	3	2	18	3	10	3	-
8.9	0.1	A6	100	89	8	12	12	13	11	13	10	10	-	-	-	-
3	0.05	A7	100	60	8	10	15	15	12	-	-	-	-	-	-	-
4.5	0.05	A8	100	90	25	25	40	-	-	-	-	-	-	-	-	-
3.5	0.05	A9	100	70	20	25	10	15	-	-	-	-	-	-	-	-
4.5	0.05	A10	100	90	55	35	-	-	-	-	-	-	-	-	-	-

Total **83.4**






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SUMMARY of ASSESSMENT

Overall Qualitative Evaluation:

Department has progressed very well since its inception and has been able to contribute significantly through the creation of research infrastructures, analytical instruments/equipment. On the basis of faculty strength and their research output, it has become second largest chemical engineering department amongst all the IITs. It has excelled itself in a variety of research areas relevant to the nation and north east in particular.

It is recommended that the department should prepare and present its own SWOT analysis and prepare a future vision in terms of its efforts required for the coming 5/10/25 years. It is also recommended that the industrial interactions, national and international institutional interactions need to be improved. The faculty and the students need to be exposed more through the organization and participation of national and international conferences.

The department needs to market and promote its expertise through specific programs of interactions with the local and national industries.

Overall Quantitative Evaluation:

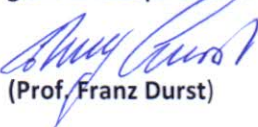
Please refer to the evaluation sheet (Table 2) with specific remarks made in Table 1. The overall marks of 83.4 obtained out of possible 100 clearly indicates that the department is following correct practices and methodologies needed to sustain the current rate of progress.

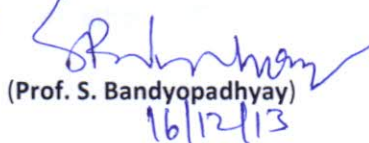
Additional Comments (on the strengths and weaknesses of the program):

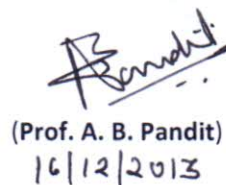
It is imperative that the department in consultation with the current faculty come out with short term, medium term and long term goals for academic excellence, improved industrial interactions and conducting research of social relevance. It is recommended by the committee that to achieve these goals more cohesive, concentrated and focused interactions be promoted within and outside the faculty.

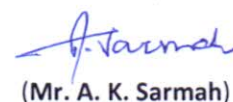
Overall Recommendation:

We would like to thank the department for giving us this opportunity to see and assess their efforts and would recommend the relevant authorities to take appropriate steps so that the department meets its goals and aspirations.


(Prof. Franz Durst)


(Prof. S. Bandyopadhyay)
16/12/13


(Prof. A. B. Pandit)
16/12/2013


(Mr. A. K. Sarmah)

Prof AK Ghoshal (Nodal officer, External Peer Review Committee)
Kindly arrange to send a copy of the review report and the
report of the Department to IIT Council
Gautam Biswas 17/12/13