

Report of Academic Audit of Chemical Engineering Department

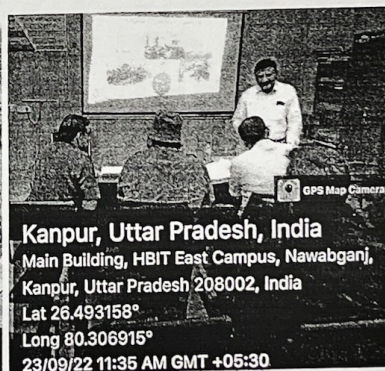
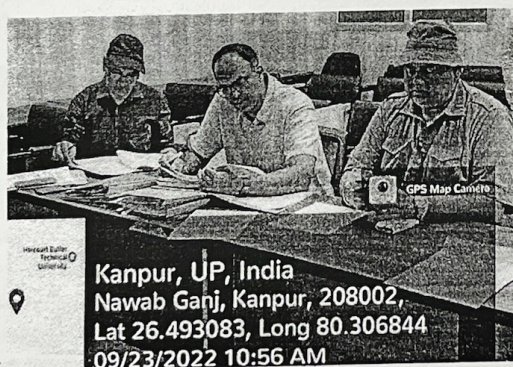
Date: 23 September 2022

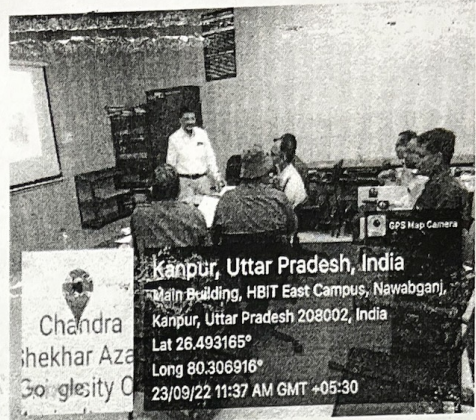
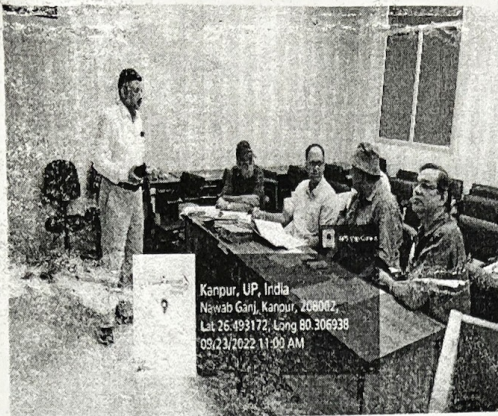
Time: 10:00 AM to 1:30 PM

External Expert/ Auditor: Prof Jayant Kumar Singh, HOD, Chemical Engineering
Department, IIT Kanpur

The expert arrived at scheduled time of 10:00 AM along with the department coordinator, Dr Pranava Chaudhari, deputied by the department. On the arrival, the expert interacted with the Dean CEIQA, Dean SoCT, HOD, Associate Dean CEIQA and the faculty members of the department. This was continued by formal greeting of the expert and immediately followed by the presentation, done by HOD. The expert has gone through the documentation and the proofs of the different criteria as per the Academic Audit Performa. The activity got completed around 2 PM and the evaluation of the department as per Auditor is as follows.

	Criteria	Score
A.1	Teaching & Learning	110 (Out of 130)
A.2	Industry Institute Interaction	60 (Out of 70)
A.3	Laboratory Development	49 (Out of 50)
B	Research	61 (Out of 70)
C	Outreach Activities	63 (Out of 70)
D	Departmental Infrastructure & Human Resource	79 (Out of 100)
E	Outcomes	49 (Out of 60)
	Total	471 (Out of 550) [85.6%]





The detailed observation of the Expert/Auditor are as follows

Strength: The external expert has appreciated the academic strength and experience of the faculty members (93% with PhD) of the department. The expert found the curriculum relevant with the current industry demands. The strong internship and placement of the students are major highlights of the department. The expert also appreciated for good research/publication (indexed in SCI/Scopus) of the faculty members.

Weakness: Inadequate technical and other supporting staff is found to be a major drawback of department. The department is found to be weaker in the interdisciplinary research projects. The strength of PG (M.Tech/ PhD) student is observed to be poor.

Opportunity: The expert has suggested a major opportunity for the department by utilizing the existing strong alumni base of the department. This can be achieved through donor funded awards, labs, etc. The department should also look for the industry funded research project using its alumni base in the industry. The vicinity of Chemical Engineering Department, IIT Kanpur should be utilized through joint supervision for PG students.

Challenges: Attracting more PhD/M.Tech students (enhancing the scholarship), enhancement of the research lab facilities and creating a top-class computational facility are the major challenges for the department.

Comments for Improvement: UP gradation of lab facilities, chemical software and library is needed. The expert has advised to develop central research lab with state of art facility. This can be done by applying for external funding like FIST grant. Suggested for creating/ obtaining consultancy projects. The department should look forward to more patents/technology/technology transfer.

(Dr Rajesh Katiyar)
Head of Department
Chemical Engineering Department

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