

Report of the Academic Audit of Civil Engineering Department held on Aug. 29th 2022

As part of ensuring quality standards in academics, a need for getting the academic audit was felt and the issue was discussed at various forums in the University. The academic audit is basically aimed at understanding the existing system; assessing the strengths and weaknesses of the Departments; suggesting methods for improvement; overcoming the weaknesses and identifying the opportunities for academic reforms. Accordingly, the Dean CE&IQA was entrusted with the responsibility of devising the proforma and deciding the modalities for getting the academic audit done for all departments of the university. In compliance with the same, the Format for Academic Audit was prepared and circulated amongst all the departments. The format of the same is given as Annexure 1. It is seen that the format has seven criteria with 55 sub-criteria. These criteria pertain to academics, research, outreach, infrastructure, human resources, and outcomes. The details of the criteria with their scores are given in Table 1. The proforma of the academic audit and the summary sheet for the same was made available to all the Heads of the departments. All the departments were asked to make the preparation in line with the format and make a detailed presentation of the same. The departments were also asked to produce documentary evidence in support of each of the criteria / sub-criteria and arrange them properly in a file.

Table 1: Academic Audit Criteria and scores

S. No.	Criteria	Maximum Score
1	Academics (A.1)- Teaching and learning	130
2	Academics (A.2)- Industry- Institute Interaction	70
3	Academics (A.3) - Laboratory Development	50
4	Research (B)	70
5	Outreach Activities (C)	70
6	Departmental Infrastructure and Human resource (D)	100
7	Outcomes (E)	60
Total		550

The date of the academic audit was notified by the Dean (CE&IQA) to be August 29th 2022. The following experts were present as part of the expert academic audit committee:

1. Prof. J.Ramkumar; Department of Mechanical Engineering, IIT Kanpur.
2. Prof. Krishna Raj; Dean, School of Engineering, HBTU Kanpur
3. Prof. Yaduvir Singh, Dean, CE&IQA, HBTU Kanpur.

In addition, all faculty members of the Civil Engineering department were also present during the audit. The Dean (CE&IQA) customarily welcomed all present during the audit. This was followed by a presentation by Prof. Dipteek Parmar, Head, Civil Engineering Department who gave all details as per the audit format. In addition, a brief presentation highlighting the SWOT analysis of the department was also delivered by the Head, CED. The expert committee raised few queries during and after the presentation to understand the academic system in practice. The audit team also interacted with faculty, and staff and visited all of the major infrastructural facilities present within the department including the laboratories and departmental library. The expert audit team expressed their satisfaction with the majority of the criteria and improvement in a few aspects.

Specifically, the audit team expressed satisfaction with the quality of students admitted to the department, full-sanctioned faculty positions with diverse specializations, and the alumni base of the department. It also observed that the department has adequate physical Infrastructure in terms of classrooms, faculty rooms, laboratories, ICT enabled facilities. The team expressed great satisfaction at the Strong Consultancy (in diverse specializations) which has led to resource generation for the department and the university.

The team observed that there were few limitations in terms of shortage of qualified technical staff in different laboratories of the department. Also, the department needs improvement in sponsored research projects which is limited due to the non-availability of research facilities, too much involvement of faculty members in administrative duties, and delay in procurement of research equipment due to cumbersome purchase procedure. Regardless of the limitations, the expert team opined that with no M.Tech programme on “Construction Management” running in institutes in and around Kanpur, there is an opportunity for the department to start this new program. It also emphasized that the department has great potential to initiate a student chapter, start-up culture, and expand academic collaboration with CFTIs and Professor of Practice.

To conclude, the audit team opined that on a whole the department is doing quite well in academics, research, consultancy, development of physical infrastructure and facilities and extension activities.

The audit concluded with a vote of thanks from the Head, CED to the academic audit team and the faculty present. Some of the photographs taken during the academic audit meeting are presented below:



Fig. 1: Sample photograph of Academic Audit meeting in the Incubation centre of the Department of Civil Engineering. (From Left to Right: Mrs Kajol Priya; Mr Manish Kumar; Prof Pradeep Kumar, CoE; Prof Krishna Raj, Dean, SoE, HBTU Kanpur, Prof Yaduvir Singh, Dean CE&IQ, HBTU Kanpur; Prof J. Ramkumar, MED, IIT Kanpur; Dr. Rajiv Ganguly, Prof. Diptee Parmar, Head, CED; Prof Sunil Kumar, Dean (SW); and Dr. Deepesh Singh.



Fig. 2: Sample photograph of Academic Audit meeting in the Incubation center of Department of Civil Engineering. (From Left to Right: Prof Pradeep Kumar, CoE; Prof Krishna Raj, Dean SoE; Prof Yaduvir Singh, Dean CE&IQA; Prof J. Ramkumar, MED, IIT Kanpur- external member of the academic audit committee.

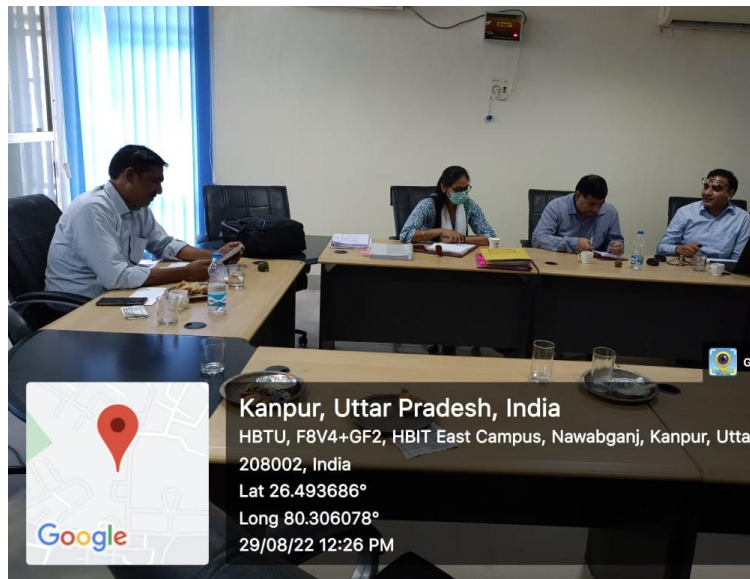


Fig 3: Geotagged photograph of Academic Audit meeting in the Incubation centre of Department of Civil Engineering. (From Left to Right: Prof J. Ramkumar, MED, IIT Kanpur-external member of academic audit committee; Dr. Kavita Tandon; Dr. Rajiv Ganguly; Prof. Dipteek Parmar, Head, Civil Engineering.

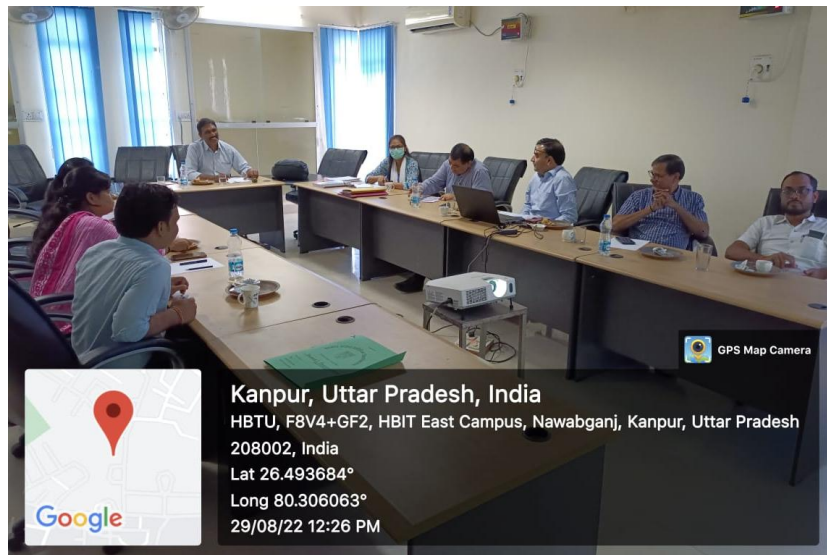


Fig.4: Geotagged photograph of Academic Audit meeting in the Incubation centre of Department of Civil Engineering. (From Left to Right: Mr. Jayprakash Nayak, Ms. Kajol Priya, Ms. Shivani Koshtha, Prof. J. Ramkumar, MED, IIT Kanpur-external member of academic audit committee; Dr. Kavita Tandon, Dr. Rajiv Ganguly; Prof. Dipteek Parmar, Head, Civil Engineering; Prof. Sunil Kumar, Dean, SW; Dr. Deepesh Singh.



Fig. 5: Geotagged photograph of Academic Audit meeting in the Incubation centre of The Department of Civil Engineering From Right to Left: Mr. Jayprakash Nayak; Ms. Kajol Priya; Ms. Shivani Koshtha; Prof. J. Ramkumar, MED, IIT Kanpur-external member of academic audit committee; Dr. Kavita Tandon; Dr. Rajiv Ganguly; Prof. Dipteek Parmar, Head, Civil Engineering; Prof. Sunil Kumar, Dean (SW); Dr. Deepesh Singh.

