

**Department of Civil Engineering
Indian Institute of Technology Kanpur**

1. Credit system

The department welcomes the credit-based system. Implementation needs to be worked out to ensure proper amalgamation of lectures, tutorials and laboratory sessions in view of large number of students in each course.

Faculty members expressed concern for conducting laboratory and tutorial sessions as a consequence of increased number of students. One suggestion was to convert tutorials into problem solving session. Department can use senior UG students to support tutorials with suitable remuneration. Ideally the tutorial should have about 15-20 students. Another suggestion was to get away with tutorials completely. Instead we can have doubt clearing and problem solving sessions supported by PG and senior UG students. Senate should allow individual departments to enable these students to get trained as tutors. These sessions can be held after regular academic slot (say after 6.00 PM). We can have office hours for students supported by senior undergraduate students. Tutorials can be merged into lectures as problems solving session. Multiple lab sessions will be required even for department courses.

2. Grading scales

Department welcomes introduction of A* grade. Different views were, however, expressed on E grade. In general, members suggested that E grade is fine if it is not counted as a prerequisite. Others thought that even if a student has not passed, he/she still has enough exposure to take the next higher course (for prerequisite). For administrative reasons, E may be helpful for backlogs.

3. Degree options/Graduation Requirements

Department welcomes the suggestion which rewards exceptional students and also takes care of students in the lower tail. It was suggested to identify better nomenclature for various degrees. Award of degree should be based on CPI only. One suggestion from the department is given below:

- B.Tech. First class with Honours with $CPI \geq 8.5$
- B.Tech. First class with $CPI \geq 5.5$
- B.Tech. Pass with $CPI \geq 4.5$

4. APEC rules

Department welcomes simplification of APEC rules. The issue of underload/overload should also be addressed suitably.

5. BTech projects/UG Research

UG research is optional and can be taken as OE. However, it is not clear if the department is bound to provide instructors for UG research course or students have to find the instructor. BTP can be independent project/study. Department recommends removal of BTP from CE.

6. BTech in Engineering Science

This is a good Idea and is seen as a futuristic program. A separate committee should be constituted to decide the curriculum and implementation of the programme. We also need to ensure that there are enough avenues for students from this programme, including admissions in our own PG level programmes.

7. Minor/double major/dual degree

Department welcomes the proposal. Proper implementation should be ensured. For dual degree programme the existing minimum academic and other criteria should be revisited.

8. Examinations

Conducting two quizzes should not be mandatory. Duration of mid-semester/end-semester examination should be decided later while keeping in mind the philosophy of modular course.

9. Modular courses

Department welcomes the proposal.

10. Electives

Department welcomes the suggestion. It has been observed that departments do not offer any OE. It is recommended that at least two OE must be offered by each department. This must be in place because load of core courses is going to be reduced as per the new recommendations.

11. Core programme

Department agrees with the proposed template of the core programme.

12. HSS courses

The manner in which HSS courses are presently offered should radically change. Except English, there should not be any difference in terms of levels (i.e. Level I and Level II) and there should not be any prerequisite for HSS courses.

13. Introduction to profession

Department would like to retain Introduction to the Profession (D0) with modified structure. It should evolve as a laboratory-based course.

14. Communication skill

Department appreciates the model suggested by the sub-committee. Students should also help in coordinating this. All efforts should be made to ensure proper implementation of the course. Just like any other core course, departments should jointly offer this course with a group of instructors. The structure of the course should be carefully finalized.

15. Class attendance

Department does not support the idea of 80% compulsory attendance. Instead we should evolve methods to encourage attendance.

16. Transfer of credits from outside IIT Kanpur

Department welcomes the proposal.