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## **Innovations by the Faculty in Teaching-Learning (Innovative Teaching Methodology)**

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Apart from conventional chalk and board teaching, for effective teaching–learning process, following innovations are adopted by the faculties of Civil Engineering Department.

1. During lecture hours, faculty makes use of audio-visual aids (i.e. PPT) to enhance the understanding capability of students. The initial few minutes of lecture hour is used for revising the previously taught topics and during the last few minutes, summary of the concepts taught is briefed. Students are encouraged to clarify their doubts during the lecture hour itself.
  2. Taking tutorial classes where faculty interact with the students on one-to-one basis to review the concepts taught or problems solved during the lecture hours so that students can overcome the difficulties experienced while understanding the concepts.
  3. Giving home assignments.
  4. Solving previous exam questions to enhance the confidence level of students.
  5. Motivating students to make use of central and department library.
  6. Conducting quizzes.
  7. Encouraging students to prepare report on site visits / case studies.
  8. Explaining the concepts through demonstration.
  9. Encouraging students to make use of excel spread sheets for calculation and plotting of graphs.
  10. Explaining the concepts through NPTEL video lectures.
  11. Explaining real world examples in class.
  12. Organizing technical talks.
  13. Visit to nearby construction sites.
  14. Organizing technical/industrial trips/tours.
  15. Conducting hands-on-training on advanced total station to third year students.
  16. Final year students are encouraged to take up project works related to societal needs.
  17. Final year students are encouraged to give technical seminar on current trends in engineering and technology by referring the research articles.
  18. Providing laboratory manuals for better understanding of the experiments.
  19. Demonstration of laboratory experiments through “Virtual Labs”, an initiative of Ministry of Education.
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