

Innovations in Teaching

AY 2023-24

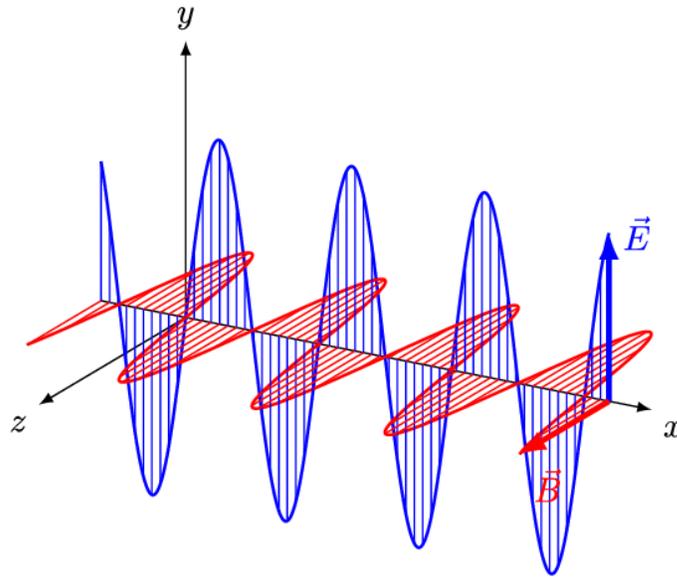
The key role of a teacher is to teach, which can be understood as meaning to facilitate learning of some target curriculum. Teaching is therefore intimately tied to notions of learning and there is a sense that if students do not learn then whatever the teacher is doing does not deserve the label of 'teaching'. The use of innovative methods in educational institutions has the potential not only to improve education, but also to empower people, strengthen governance and galvanize the effort to achieve the human development goals for the country.

Traditional Teaching Method: In the pre-technology education context the teacher is the sender, the educational material is the information and the student is the receiver of the information. In terms of the delivery medium, the educator can deliver the message via the "chalk-and-talk" method and LCD projector transparencies. This learning perspective is a popular technique, which has been used for decades as an educational strategy in all institutions of learning. Basically, the teacher controls the instructional process, the content is delivered to the entire class and the teacher tends to emphasize factual knowledge.

Innovative Teaching Methods: Following innovative learning methods are initiated and implemented by the faculty for students to learn in a better manner.

1. Collaborative Learning
2. Through Display of Working Models
3. Facilitating through Group Learning
4. Teaching through Value Added Courses
5. Providing Experiential Learning
6. Through Guest Lectures, Industrial Visits, Field trips
7. Product/ Project Based Learning
8. Through Display of Animation
9. Continuous Interaction with student

1. Prof B Harikumar used some [Wikimedia Commons](#) while explaining “how an Electromagnetic wave progresses. Directions of Electric field, magnetic field and the direction of propagation are mutually perpendicular to one another” to II ECE A students on 14-Feb-2024



2. On 17-Feb-2024, Prof B. Harikumar Dean E&CE has explained to the students about static electric fields with some simple experiments.
 - (a) Upon rubbing the balloon on our hair, negative charge gets induced on to the balloon while positive charge gets transferred on to our hair.

The balloon with a negative charge changes the track of water fall (bends towards the balloon) as can be [seen from the video](#)
 - (b) A current carrying conductor creates a magnetic field. [This simple experiment is proof of that concept](#)
 - (c) Upon rubbing the balloon on our hair, the negative charge which induced on to the balloon is attracting small pieces of paper [in the video.](#)