INNOVATION BY FACULTY IN TEACHING AND LEARNING

The faculty members of Information Science and Engineering department ensures effective and efficient teaching environment to the students by adopting and practicing the various innovations in teaching and learning. Following are some of the activities that contribute to the improvement of student learning.

1. Information and Communication Technology [ICT]:

The new developments in the information technologies have opened up fresh prospective in teaching and learning. At the department we make use of various ICT tools in order to improve instruction methods.

Use of ICT as class room technology:

Use of ICT as class room technology includes information presentation through overhead / LCD projectors, Television and Electronic boards etc.

ICT implementation in online learning:

The National Program on Technology Enhanced Learning [NPTEL] is an initiative by seven IIT's and IISc for creating course contents in Engineering and science. They create contents for numerous courses as web based supplements and many complete video courses, for forty hours of duration per course. At the department, faculties often refers to the NPTEL course contents which will be useful for teacher training and through them improve the quality of students.

In addition, the course materials (both web and video) are freely accessible on NPTEL website. Following table shows the information about the online courses successfully completed on NPTEL by faculty members at the department.

Instructional Methods: (Lecturing)

At the department faculty members follow the black board teaching method of the syllabus prescribed by the university according to the lesson plan.
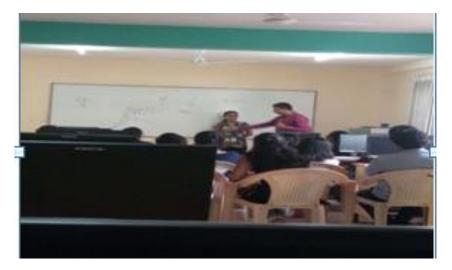
Peer Demonstrating:

Demonstration helps to prove a fact through a combination of visual evidence and associated reasoning. Demonstrations help to raise student interest and reinforce memory retention because they provide connections between facts and real-world applications of those facts. Demonstrating instruction method means teaching through examples or experiments.

Demonstrating stack

Demonstrating queue

Demonstrating searching and sorting technique