

computer science COMPUTER-BASED EDUCATION LAB

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The Computer-based Education Laboratory was established in 1990 to study pedagogical methods for effective delivery of distant education by computer. Over a dozen degrees have been awarded to students who have done research and thesis works in the CBE laboratory.

This work has ranged from developing interactive courseware to the testing of teaching strategies including the study of fault tolerant teaching. Developing algorithms which can automatically generate problems containing specific concepts and then properly judge the students' wide range of responses has led to the ability of the computer to automatically understand the concepts understood by the students and provide them with individual guidance.

Future projects in this laboratory will help to determine the role of serious games for effective transfer of conceptual ideas to the students. Using modern technology to solve our educational problems is essential if we are to resolve the educational crises facing the nation.