Objective and aims of the study:

1. To identify students difficulties in learning concepts of mechanics at undergraduate level.
2. To overcome this difficulties in learning physics and simplify concepts in mechanics.
3. To develop and implement microcomputer-based interface tools for understanding of Mechanics concepts and to increase the effectiveness of traditional methods in undergraduate students.
4. To develop a tool i.e. Mechanics Diagnostic Test (MDT) to measure the effect of teaching using microcomputer based laboratory tool and traditional teaching method.

Hypothesis:

Null hypothesis: Microcomputer-based interface tools in Physics in classroom teaching do not show any significant change on students’ achievement and attitude towards physics.
Alternate hypothesis: Microcomputer-based interface tools in Physics in classroom teaching shows significant change on students’ achievement and attitude towards physics.

The data on students’ conceptual understanding about experiments will be statistically analyzed. T-test will be administered at 0.05 and 0.1 level of significance to test the null hypothesis. If the null hypothesis is true, the alternate hypothesis will be rejected and there is no significance in achievement of learning experiments using computer based experiments. If the null hypothesis is rejected, the alternate hypothesis will be accepted and there is significance in achievement of learning experiments using computer based experiments.