Course Assessment Summary
COE 202 Fundamentals of Computer Engineering (3-0-3)
Term 062

Course Learning Outcomes

1. Ability to use math and Boolean algebra in performing computations in various number systems and simplification of Boolean algebraic expressions.

2. Ability to design efficient combinational and sequential logic circuit implementations from functional description of digital systems.

3. Ability to use CAD tools to simulate and verify logic circuits.

Section#	Source of Outcome Data	Outcome1	Outcome2	Outcome3
1 & 2	Instructor Evaluation	89%	83%	75%
	Student Survey	69.3%	62.3%	90.5%
4	Instructor Evaluation	82.6%	71.4%	65.8%
	Student Survey	70%	60%	30%
Overall	Assessment Rating	Achieved	Needs Improvement	Needs Improvement

Observations:

1. Instructor of section I & II feels that outcome 2 needs to be more emphasized. He also likes to inject more CAD usage in the course.
2. Many of the students indicated that they prefer to have the lab offered with the course.
3. Students also indicated that they did not like the math component of the course.
4. Instructor of section IV thinks that splitting the course and lab has hurt the course significantly. He strongly recommends merging them again. Also, many students prefer to have the lab with the course. The instructor thinks that outcome 3 was not achieved as students were not motivated to use the logic simulation tool. He also thinks that students' math abilities need improvement.

Recommendations:

1. Clearly the use of tools like logic works in the course should be more emphasized and should be given a high weight. Students should be introduced to the tool early in the semester and should be given enough tutorials to make them capable of using the tool.
2. Merging the lab with the lecture should be reconsidered.
3. Outcome 3 needs more enhancements through more design examples and design assignments.
4. Use of math skills needs in the course needs more emphasis.