

**Spring- 2011**

**Course Number and Title: ITCS-3181 Logic and Computer System**

**Faculty:** M. Taghi Mostafavi

**Prerequisite and Support Course:** ITCS 2215 and ITCS 2175.

**General Content/Course Outline**

- Combinational Logic
- Sequential logic and Network
- Introduction to Computer System
- Micro architecture and programming
- Memory and Memory Organization
- Cache Memory
- Pipelined processor design

**Exams and Major Assignments:** Midterm exam, final exam, and Laboratory Assignments/projects.

**Grading Procedures:** Mid-term exam and a quiz 25%

**Final exam/quizzes:** Final exam and two quizzes 35%

**Lab assignment/homework:** 40%

**Text Book:**

Structured Computer Organization  
A. S. Tanenbaum