ECE 4250/7250 VHDL AND PROGRAMMABLE LOGIC DEVICES

LAB#5 SIMULATION TEST BENCH OF 6 BIT SUBTRACTOR

I. Objective

The objective is to learn writing a Test Bench for a 6-bit subtractor. You will simulate your design using ModelSim and write a test bench for obtaining the simulation results.

II. Instructions

- *Read section 2.19, Page Text Book for example on how to write Test Bench
- *Revise Class notes
- ❖Create a test bench for the 6-bit subtractor from lab 2
- ❖ Provide 5 test samples to the subtractor and check the outputs

III. Deliverables

- 1. Demonstration is required
- 2. Pre- Lab: No Pre-Lab is required.
- 3. Report:
 - a. Objective
 - b. Lab work:
 - Implementation: describe your design
 - Print and report the results including your codes
 - c. Conclusion: What went wrong? Why?, And how did you solve it?

V. Grading

This lab has 15 points (8 demonstration, and 7 report).