

King Fahd University of Petroleum and Minerals
College of Computer Sciences and Engineering
Department of Computer Engineering
COE 202 – Fundamentals of Computer Engineering

(Term: 071, Section 2)

Instructor: Dr. Basem AL-Madani (mbasem@kfupm.edu.sa)

Computer Aided Design Assignment # 01

Due date & time: 8th Jan. 08 class time

Design a circuit that takes 2 Binary numbers, A and B, each of 4-bits and add or subtract them according to a third mode input signal. If the mode is 0, the circuit should add A and B and generate a carry-out if needed. If the mode is 1, the circuit should perform (A-B).

Important:

- 1- Save your file as “COE202sec02term071_CAD01_*yourID*.cct”
- 2- Send the file to the grader’s email (dz_razorblade87@hotmail.com) and cc to me (mbasem@kfupm.edu.sa)
- 3- Test your design carefully and do not send several versions of your design.
ONLY THE FIRST VERSION WILL BE CONSIDERED.
- 4- Submit a hard copy showing all your design steps. Credit will be given for each design steps.**