READING ASSIGNMENT 1 (INDIVIDUAL READING/GROUP DISCUSSION) in preparation for the first quiz 1.

DUE DATE: January 22, 2020 (Deliverables: NOTHING, ASSESSMENT: 10 minutes CLASS QUIZ)

BOOK: Digital Electronics (Principles, Devices and Applications) by Anil K. Maini, 2007

READING ASSIGNMENTS (INDIVIDUAL)

- ⇒ Individual students should read Chapter 1 and Chapter 2 and the group must meet to discuss the areas enumerated below.
- ⇒ NB: The group meeting day, time and place must be communicated at least 1 day ahead to the TA to help him offer supervisory role (including random roll call).

Group Discussion Assignment

- 1. Understand some common number systems (binary, decimal, octal, hexadecimal, etc)
- 2. Understand Number Representation in Binary (Signed and Unsigned Bits, 1's complement and 2's complements)
- 3. Understand conversion from any number system to decimal (Binary to decimal, octal to decimal, hexadecimal to decimal, etc) and vice-versa including fractions (numbers after decimal point).
- 4. Get comfortable with the four axioms
- 5. Understand Floating point representations
- 6. Understand BCD, Excess-3 code, Gray codes, Alphanumeric Codes, Seven-segment Display Code, Error Detection and Correction Codes.