## CSE 436/536

## **Digital Integrated Circuits**

## Assignment 1

## Due Date 28/10/2021 23:59

1. In this assignment you will go through the Spice tutorial and plot every graph inside the tutorial.

The Spice Tutorial is under Files > Class Materials of Teams Class Page.

Take the screenshot of your Spice plots and put them inside a zip file and post that zip file before the due date.

- 2. Install Magic and SCN5M\_DEEP.12.tech27 on your computer and design an inverter layout using Magic. Put the mag file and picture of your inverter to the zip file.
- 3. Draw the transistor level schematic for the oai23 logic cell given below:

$$Z = (A + B) . (C + D) . (E + F)$$

Add the screenshot of your schematic to the zip file.

Name your zip file as StudentName\_StudentSurname\_StudentId\_Assignment1.zip