Semester Project

Problem Statement:

Using Logisim (recommended), Digital Works, or any other simulator apply what you have learned during *Logic Circuits* course to design and implement a logic circuit for playing Tic-tac-toe, one of its variations, or any other board game.

Deliverables (in electronic form**):**

1. Detailed Report containing
   i. Documentation of each step performed
   ii. All drafts, sketches, etc. (Scan everything)
   iii. Complete design and analysis
      - Initial
      - Optimized
      - Simulated
2. Simulator files (*.circ, *.dwm, etc.)
3. Recorded Demo (video)
4. Live Demo

Due Date:

On the same day as the oral exam (one or two weeks earlier than the final exam).

Grading:

The project is worth **30 marks** distributed as follows:

- Amount of work 10 marks
- Presentation 10 marks
- Quality of work 10 marks

Groups:

Every group must consist of either **four** or **five** students.

Good Luck
Dr. Islam ElShaarawy