CSC347 Computer Circuits Laboratory

- **Instructor**
  Dr. Shuqun Zhang, Room: 1N-210, Email: shuqun.zhang@csi.cuny.edu, Phone: 718-982-3178.
  Office hours: Monday from 12:30pm to 2:30pm, and Wednesday from 3:00pm to 4:00pm.

- **Class Website**
  Information about this course can be obtained at Blackboard. It contains a variety of information, including class handouts, labs, and your grades, which will be updated regularly during the semester.

- **Textbook**

- **Course Description**
  The design and implementation of circuitry found in modern computers. Physical realizations of minimized switching functions. Design and implementation of finite state machines including synchronous sequential circuits and asynchronous sequential circuits. Prerequisites: CSC346/ENS 220

- **Specific Goals for the Course**
  a. Specific outcomes of instruction:
     1. An ability to operate laboratory equipment.
     2. An ability to construct, analyze, and troubleshoot simple combinational and sequential circuits.
     3. An ability to design and troubleshoot a simple state machine.
     4. An ability to measure and record the experimental data, analyze the results, and prepare a formal laboratory report.
  b. The student outcomes in Criterion 3 addressed by the course: (a), (b), (c), (d), (i), (j).

- **Topics to be covered**
  Basic digital logic gates, Introduction to CAD software for logic design, Combinatorial logic design laboratories, Sequential circuit/finite state machine design laboratories

- **Tentative Grading**
  - 35% Labs
    A>90; A- 88,89;
  - 30% Midterm Exam
    B+ 86,87; B 80-85; B-78, 79
  - 30% Final Exam
    C+76,77; C 68-75;
  - 5% Teamwork & attendance
    D 60-67; F<60
  You will not receive any credit for the lab you are absent.

- **Other Policies**
  There are no make-up labs or extra credits. A lab report is due one week after the lab was performed. The lab reports must be written in word document and submitted through the Blackboard. 30% of the points will be deducted for each day that report is late. Cheating is a serious offense that undermines the integrity of the student and the school. Students caught cheating (including plagiarizing) will receive a zero grade for the respective test or assignment, and will be subject to the school’s progress penalties for cheating.