

**Benha University** 

Logic Circuits ECE 224C

**Computer Systems Engineering** 

**Electrical Engineering Department** 



Faculty of Engineering (at Shoubra)

<b>Course Title:</b>	Logic Circuits
Course Code:	ECE 224C
Instructor:	Dr. Islam ElShaarawy
Main Textbook:	M. Morris Mano and Michael D. Ciletti. <i>Digital Design: With an Introduction to the Verilog HDL</i> . 5 <sup>th</sup> Edition <sup>1</sup> , Prentice Hall, 2012, ISBN 978-0132774208.
Other Resources:	http://www.cburch.com/logisim/ http://bbrown.spsu.edu/digitalworks/ http://bleyer.org/icarus/ http://vol.verilog.com/ <u>Veriles</u>
Course Contents:	<ol> <li>Digital Systems and Binary Numbers</li> <li>Boolean Algebra and Logic Gates</li> <li>Gate-Level Minimization</li> <li>Combinational Logic</li> <li>Synchronous Sequential Logic</li> <li>Registers and Counters</li> </ol>
Attendance Policy:	

- 1. Attenda
  - . Attendance is expected.
  - 2. Whether you attend or not, you are responsible for keeping track of whatever happens during the lectures and the tutorials.
  - 3. Side talking, cellphones, laptops, food/drinks, and walking<sup>2</sup> are not allowed.



## **Grading System:**

Attendance <sup>3</sup> :	00
Assignments:	10
Quizzes:	10
Midterm Exam:	10
Oral Exam <sup>₄</sup> :	30
Final Exam:	90

3 Attendance will be taken anyway.

<sup>1</sup> You can use an earlier edition if you already have one.

<sup>2</sup> If you are late for the lecture, then you are allowed to walk into the lecture hall but quietly.

<sup>4</sup> There will be a semester project that will be discussed during the oral exam