



Benha University

Computer ECE 001

Computer Systems Engineering
Electrical Engineering Department



Faculty of Engineering
(at Shoubra)

- Course Title:** Computer
- Course Code:** ECE 001
- Instructor:** Dr. Islam ElShaarawy
- Main Textbook:** J. Glenn Brookshear. *Computer Science: An Overview*. 11th Edition¹, Prentice Hall, 2012, ISBN 978-0132569033.
- Other References** Virginia Tech CS Online Modules: <http://courses.cs.vt.edu/csonline/>
- Other Resources:**
- <http://lightbot.com/> 
 - <http://scratch.mit.edu/> 
 - <http://flowgorithm.org/>  Flowgorithm
 - <http://www.cburch.com/logisim/> 
 - <http://cyberpython.github.io/BMach/> 
 - <http://ccl.northwestern.edu/netlogo/index.shtml> 

Course Contents:

0. Introduction
1. Data Representation
 - a) Data Storage ([online](#))
 - b) Logic Gates ([online](#))
 - c) Logic Circuits ([online](#))
 - d) Number Systems ([online](#))
2. Computer Architecture ([online](#))
3. Operating Systems ([online](#))
4. Networking and the Internet
5. Algorithms ([online](#))
6. Computer Programming ([online](#))
7. Artificial Intelligence ([online](#))

Attendance Policy:

1. 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 walking² are not allowed.



Grading System:

Attendance³:	00
Quizzes:	05
Midterm Exam:	10
Oral Exam:	15
Final Exam:	45

¹ You can use a different edition if you already have one.
² If you are late for the lecture, then you are allowed to walk into the lecture hall but quietly.
³ Attendance will be taken anyway.