



Computer ECE 001



Benha University

Computer Systems Engineering
Electrical Engineering Department

Faculty of Engineering
(at Shoubra)

Course Title: Computer







Course Code: ECE 001

Instructor: Dr. Shady Yehia Elmashad – Dr. Ahmed Bayoumi

Main Textbook: J. Glenn Brookshear. *Computer Science: An Overview*. 11th Edition¹, Prentice Hall, 2012, ISBN 978-0132569033.
Morley, Deborah, and Charles S. Parker. *Understanding Computers: Today and Tomorrow*. Cengage Learning, 2010.

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/> 
- <http://www.cburch.com/logisim/> 
- <http://cyberpython.github.io/BMach/> 
- <http://ccl.northwestern.edu/netlogo/index.shtml> 

Course Contents:

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

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:	Attendance:	00
	Quizzes:	05
	Midterm Exam:	15
	Oral Exam:	10
	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.