Course Title: Computer Applications I
Course Code: SUR 224
Instructor: Dr. Islam ElShaarawy
Main Textbook: “C++ How to Program” by Deitel and Deitel
   C++ How to Program, 3/e (Slides)
   C++ How to Program, 3/e (Examples)
Other References: http://www.cplusplus.com/doc/tutorial/
   http://en.cppreference.com/w/
Other Resources: http://scratch.mit.edu/
   http://flowgorithm.org/
Course Contents:
1. Introduction to Computers
   • Hardware/Software
   • Operating Systems
2. Introduction to Computer Programming
   • Machine Language and Assembly Language
   • High Level Languages
3. Problem Solving Concepts
4. Control Structures
5. Functions
6. Arrays
7. Numerical Analysis
8. Applications

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 walking are not allowed.

Grading System:

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\begin{align*}
\text{Attendance}^3 & : 0.0 \\
\text{Assignments} & : 0.05 \\
\text{Quizzes} & : 0.05 \\
\text{Midterm Exam} & : 0.10 \\
\text{Oral Exam}^4 & : 0.20 \\
\text{Final Exam} & : 0.60 \\
\end{align*}
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1 I am using the third edition but you can use any.
2 If you are late for the lecture, you are allowed to walk into the lecture hall but quietly.
3 Attendance will be taken anyway.
4 There will be a semester project that will be discussed during the oral exam