Course Title:	Computer Applications II
Course Code:	SUR 315
Course Page:	http://www.bu.edu.eg/staff/islam.elshaarawy-courses
Instructor:	Dr. Islam ElShaarawy (http://www.bu.edu.eg/staff/islam.elshaarawy)
Main Textbook:	Steven Chapra. *Applied Numerical Methods with MATLAB for Engineers and Scientists*. 3rd Edition, McGraw-Hill Education, 2011, ISBN 978-0073401102. http://highered.mheducation.com/sites/0073401102/index.html
Other References:	http://www.mathworks.com/help/matlab/ MathWorks
Online Resources:	http://www.gnu.org/software/octave/
	http://octave-online.net/
	http://www.tutorialspoint.com/execute_matlab_online.php codingground SIMPLY EASY CODING

Course Contents:

1. Introduction
2. MATLAB Fundamentals
3. Matrices and Arrays
4. Linear Algebra
5. Iterative Methods
6. Linear Regression
7. Nonlinear Regression
8. Numerical Integration
9. Numerical Differentiation
10. Applications In Surveying Engineering

Attendance Policy:

1. Attendance is compulsory.
2. **Reading the relevant chapter(s) ahead of lectures is essential.**
3. Keeping track of whatever happens during the lectures is the student responsibility regardless of attendance.
4. **Leaked solution manual as well as any other resources (unless otherwise specified) should never be used for solving the assignments.**
5. Side talking, cellphones, laptops, food/drinks, and walking[1] are not allowed.

Grading System:

Attendance[2]:	00%
Assignments:	05%
Quizzes:	05%
Midterm Exam:	10%
Oral/Practical/Project:	00%
Final Exam:	80%

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1   If you are late for the lecture, then you are allowed to walk into the lecture hall but quietly.
2   Attendance will be taken anyway.