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| **Week** | **Material** | **Home Work** |
| **1-2** | MATLAB lecture which will cover:  MATLAB desktop environment (command window, workspace window, command history window, current folder window),  variables, operations,  definition of algorithms, definition  of computer  programs, introduction  to M-files. | 1. Some calculations   on the command window.   1. Create an M-file. |
| **3-4** | MATLAB lecture which will cover:  M-file function that returns a single  result, calling a function, relational  operations (>,<,==,…), logical  operations (||, &&...),  If statements, while statements,  The ‘fprintf’  function, the ‘feval(.,.)’  function. | 1. Create an M-file   Function that uses if and  while statements. |
| **5-6** | MATLAB lecture which will cover:  Matrix operations (array multiplication “.\*”, matrix  multiplication, addition,  and subtraction), inverse of a  matrix, matrix transpose, solving linear systems, determinant  of a matrix, plotting  functions in 3D (ezmesh, ezsurf). | 1. Perform some matrix   calculations.   1. Plot a surface   in 3D. |