

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري لمادة الحاسوب

	Material Covered
Week 1	Operating systems what is an operating system and what it can do, types of operating systems the features importance (95, 97, 2000, Me, XP, Vista, 7, 8, 8.1, and 10) and their characteristics; explain the differences between operating systems and software applications; computer power on/ off; using mouse and their buttons.
Week 2	Looking at the PC navigation on desktop; using start button; working with application; using taskbar; understanding software and hardware (their differences, importance and relationships); explain why hardware can influence the operating system and software and vice versa; software updates, security and bugs; software ethics
Week 3	Microsoft office Word, Excel, Power point
Week 4	The concept of networks and their types, the concept of the Internet and its operation, - A description of the main screen and its components, how to connect with the World Wide Web)). Take advantage of popular search engines such as Yahoo, Google. Learn how to search for and access information.
Week 5	Introduction, MATLAB Environment, MATLAB Windows (Command Window, Workspace Window, Command History window, Help Window, Editor Window).
Week 6	A First Program, Expressions, Constants, Entering Matrices, Useful Matrix Generators, Subscripting ,End as a subscript, Colon Operator, Transpose Deleting Rows or Columns
Week 7	Variables and assignment statement, logical operator
Week 8	Arrays, Built in functions, Basic Matrix Functions (sum, max, min, mean, magic, diag, length, size, median, prod, sort).

Week 9	Basic Plotting (Multiple Data Sets in One Graph, Specifying Line Styles and Colors, Multiple Plots in One Figure, Setting Axis Limits). Arguments and return values, M-file, input-output statement
Week 10	Control Statements(Conditional statements: If, Else, Elseif, switch case), Repetition statements: (While statement, For statement)
Week 11	Procedures and Functions(a custom-made Matlab function, define the name of the function, the input and the output variables, Calling Functions).
Week 12	GUI Interface (Attaching buttons to actions, Getting Input, Setting Output), Predefined GUIs and Dialog Boxes.
Week 13	Introduces the LabVIEW environment including windows, menus, and tools.
Week 14	Creating and using LabVIEW projects, The LabVIEW front panel and block diagram Searching for controls, VIs, and functions.
Week 15	Understanding the dataflow programming model of LabVIEW, Recognizing different data types, Tools for developing, cleaning and organizing your Vis, Using Express VIs to build a basic VI.
Week 16	Preparatory week before the final Exam