TOPIC 7	Function m-files
SUB-TOPICS	 MATLAB built-in (pre-defined) functions Using functions: function calls, input and output Built-ins accepting different types of function calls Anonymous functions Function m-files – basic rules Global and local variables Functions with no input or output variables Comparing script and function m-files
OBJECTIVES	 by the end of this unit, students should be able to: use built-in functions having multiple input/output variables with confidence write and use anonymous functions construct (working) function m-files and use them correctly manage files and folders on the MATLAB search path convert script files to functions (if/when appropriate)
KEY WORDS AND EXPRESSIONS	on MOLE
CORE STUDY MATERIALS	 Textbook selection MATLAB Topic 7 Notes Topic 7 Problems (Question Bank) Vocabulary Lists
TEXTBOOK STUDY	 Essential Reading Chapter 4 Importing and Exporting Data Section 4.1 (Common Functions) Chapter 7 Function M-files All except sections listed under Recommended Reading Key content: 7.2 (Basic Rules) & Chapter Summary Recommended/Optional Reading (these topics are difficult without some background in programming) Chapter 7 Function M-files Sections 7.2.1 – 7.2.4 (Subfunctions, Private functions, P-code, Profiler) 7.3 Function Handles 7.6 Debugging 7.7 Recursion
ADDITIONAL RESOURCES	check on MOLE