TOPIC 6	Conditional Statements
SUB-TOPICS	 logical arrays (scalars, vectors & matrices) logical operators & truth tables; short-circuiting behaviour linear indexing (selection with conditional expressions) the if statement block the if – else statement block the if – elseif – else statement block more on the disp function (displaying numerical variables with text) array input handling in scripts introduction to WHILE loops
OBJECTIVES	 by the end of this unit, students should be able to: create and read conditional expressions using logical operators construct complex conditional expressions to select array elements meeting certain criteria understand the relationship between linear indices and subscripts write conditional blocks depending on the choice of action required include conditional blocks inside nested FOR loops construct a properly working WHILE loop, understand the role of the loop counter variable (and why it must be initialised, tested and modified)
KEY WORDS AND EXPRESSIONS	on MOLE
CORE STUDY MATERIALS	 Textbook selection MATLAB Topic 6 Notes Topic 6 Problems (Question Bank) Vocabulary Lists
TEXTBOOK STUDY	Essential Reading Chapter 2 Fundamentals - Section 2.8 (Decisions) - Summary & Exercises Chapter 5 Logical Vectors (watch out for eps, NaN, exist, any, all, find) Chapter 8 Loops (Exercises too) Recommended Reading - switch-case blocks, the break and continue keywords
ADDITIONAL RESOURCES	check on MOLE