TOPIC 8	Data Handling
SUB-TOPICS	- ASCII and binary data - saving MATLAB data in MATLAB format: .mat files - using the save and load functions - importing numeric data from spreadsheets: cut/paste - importing spreadsheet data in table format - storing data in dataset format - importing image files 8-bit colour images - basic image processing examples
OBJECTIVES	by the end of this unit, students should be able to: - import and export data in and out of MATLAB - create basic data summaries from spreadsheets - understand how 8-bit colour images are stored - use basic image manipulation techniques
KEY WORDS AND EXPRESSIONS	on MOLE

CORE STUDY MATERIALS	- Textbook selection (very little for this topic)
	- MATLAB Topic 8 Notes
	- Excel spreadsheets:
	   i. sheffieldweather.xlsx
	  (source: http://www.sheffieldweather.co.uk/Weather_Data.htm)
	
	   ii. le.xlsx (World Bank Life Expectancy data)
	  (raw data source: http://data.worldbank.org/indicator/SP.DYN.LE00.IN)

TEXTBOOK STUDY	**Essential Reading** Chapter 4 *MATLAB Functions and Data Import-Export Utilities* - Section 4.2 (Importing and Exporting data) Suggested links in the Topic 8 Notes.
ADDITIONAL RESOURCES	It is recommended that students practice on data or images of their choice