

MINERVA

STATISTICAL CONSULTING



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WORKSHOP : **Introduction to Matlab programming**

DATE : **03-12-2016 - 04-12-2016**

LOCATION : **London**

PRE REQUISITES : **None. It is however helpful to have some college level mathematics (such as linear algebra and statistics).**

OBJECTIVES : **Students will obtain a basic knowledge of Matlab.**

INSTRUCTOR : **Mr Simon Ennis**

OUTLINE : **See below**

How to book : If you are interested in taking part in one of our workshops please feel free to contact us via phone or email to book a place or visit our training page.

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OVERVIEW : Introduction to Matlab programming

This course is targeted at beginners and assumes the students have no previous knowledge of Matlab. The aim of the course is to prepare students for intermediate and advanced studies with Matlab.

The course is held in a computer room where each student will have access to a computer with Matlab installed on it so they can try the code demonstrations themselves.

The course will be delivered over two days with a total of 10 hours in one hour sessions with breaks in between.

Day 1

Student will learn how to use a Matlab environment and write some basic programs using variables and strings. At the end of day one the following topics will have been covered:

- Workspace basics
- Entering commands
- Workspace variables
- Text and characters
- Concatenation
- Operators and elementary operations/complex numbers
- Array indexing

Day 2

The second day of the course will extend the student's knowledge of Matlab and its use, they will obtain a basic understanding of *object oriented programming* in Matlab. By the end of the second day the students should have an understanding of the following:

- Matrices and array creation
- Calling functions
- Matrix operations
- 2D-3D plots, Line plots, subplots
- Control statements
- M files and script locations.

The lecture slides will be available during the course.

Reference book: : Matlab for beginners: A Gentle Approach

WORKSHOP : AGENDA

Please find below the agenda for the workshop.

Day 1: Using the Matlab environment and writing first programs.

- **9:00 - 9:45** : Arrival of participants and registration
- **10:00 - 11:00** : Session 1
- **11:00 - 11:15** : Coffee break*
- **11:15 - 12:30** : Session 2
- **12:30 - 14:00** : Lunch break*
- **14:00 - 15:00** : Session 3
- **15:00 - 15:15** : Coffee break*
- **15:15 - 16:30** : Session 4
- **16:30 - 16:45** : Coffee break*
- **16:45 - 18:00** : Session 5

Day 2: Matrices, plots and scripts.

- **10:00 - 11:00** : Session 6
- **11:00 - 11:15** : Coffee break*
- **11:15 - 12:30** : Session 7
- **12:30 - 14:00** : Lunch break*
- **14:00 - 15:00** : Session 8
- **15:00 - 15:15** : Coffee break*
- **15:15 - 16:30** : Session 9
- **16:30 - 16:45** : Coffee break*
- **16:45 - 18:00** : Session 10

*Included in the course price. Vegetarian options available, please notify any additional dietary requirements in your application form.