

MINERVA

STATISTICAL CONSULTING



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WORKSHOP : **Introduction to python programming**

DATE : **26-11-2016 - 27-11-2016**

LOCATION : **London (Venue TBC)**

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

OBJECTIVES : **To equip students with a basic working knowledge of python programming.**

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 python programming

This course is targeted at beginners and assumes the students have no previous knowledge of the software python. The aim of the course is to prepare students for more intermediate and advanced studies in python programming.

The course is held in a computer room where each student will have access to a computer with the python software previously installed on the machine should they wish to replicate the instructor's demonstrations.

The course will be delivered over 2 days with a total of 10 contact hours, subdivided in 1 hour sessions with breaks in between, see page 2 for more information.

Day 1

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

- Installing a python environment
- Organizing and writing code
- Basic mathematics
- Using variables/ Using strings and text
- Python file handling
- Control flow statements

Day 2

The second day of the course will extend the student's knowledge of python data structures and their use, and a basic understanding of *object oriented programming*. By the end of the second day the students should have an understanding of the following topics:

- Using lists and dictionaries
- Program design
- Object oriented programming
- Inheritance and decomposition
- Modules classes and objects
- Debugging

Teaching material will be made available during the course.

Reference book: : *Learning Python* by Mark Lutz 5th edition

WORKSHOP : AGENDA

Please find below the agenda for the workshop.

Day 1. Introduction to python programming (Part I)

- **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*
- **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. Introduction to python programming (Part II)

- **10:00 - 11:00** : Session 6
- **11:00 - 11:15** : Coffee break*
- **11:15 - 12:30** : Session 7
- **12:30 - 14:00** : Lunch*
- **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.