

MATLAB / Simulink course
9 – 11 June 2004
AUN, Biotechnology Building, room BT3A.10

Module 1: MATLAB programming
Wednesday 9 June, 12:00 – 18:00

- 1.1 Overview of program structures and programming options in MATLAB: Data structures, objects, functions/files, organising large program systems, handling runtime errors and error messages, profiler
- 1.2 GUI programming: Windows, handle graphics, menus, callbacks, visualization

Module 2: Interfacing with MATLAB
Thursday 10 June, 09:00 – 16:00

- 2.1 FORTRAN and C-programs: mex-interface, accessing and verification of input and output data
- 2.2 Excel: Exporting tables between MATLAB and Excel, both ways. Executing commands in MATLAB from Excel

Module 3: Simulink
Friday 11 June, 09:00 – 15:00

- 3.1 Introduction to graphical modelling of dynamic systems and differential equations in Simulink
- 3.2 Calculations in MATLAB from Simulink, visualisation

The modules are independent of each other, so participants may register for one or more. The course will be interactive, with emphasis on hands-on practice.

Individual exercises will be integrated in the course.