Introduction to Matlab programming

ECTS : 0

Description du contenu de l'enseignement :

This introductory MATLAB course provides students with a practical foundation in numerical programming for economics and quantitative analysis. Structured over four sessions, the course covers the MATLAB environment, basic programming syntax, arithmetic operations, vectors and matrices, random number generation, data import and export, graphical visualization in two and three dimensions, conditional statements and loops, as well as the creation of user-defined functions and an introduction to optimization methods. The course combines conceptual explanations with hands-on exercises designed to help students build confidence in coding and problem-solving. Assessment is based on a project completed partly in class and finalized independently within a limited take-home period.

Compétence à acquérir :

By the end of the course, students are able to write and organize MATLAB scripts, manipulate vectors, matrices, and arrays, visualize data clearly through plots, import and manage datasets, create reusable functions, and apply basic optimization tools to numerical problems. More broadly, the course develops programming autonomy, analytical rigor, and the ability to use MATLAB as a tool for empirical analysis, quantitative modeling, and applied research in economics and related fields.

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