Linear Algebra, Difference Equation Systems and Introduction to MATLAB

Trainers

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Description

1. Introduction to MATLAB
2. Matrix Algebra (Theory and Numerical Illustration in MATLAB)
   - Rank, Determinant and Inverse
   - Eigenvalues and Eigenvectors
   - Similarity Transformations
3. Systems of Static Linear Equations (Theory and Numerical Illustration in MATLAB)
4. Systems of Linear Difference Equations (Theory and Numerical Illustration in MATLAB)
   - Autonomous Systems: Diagonalization, Jordan Normal Form and Real-Valued Representations
   - Backward and Forward Solutions
5. Vector and Matrix Differentiation (Theory and Numerical Illustration in MATLAB)

Conditions

Participants are expected to have a solid undergraduate background in mathematics as is relevant for studies in economics, finance, accounting and marketing. Those missing some of this background are expected to have worked through the following reference prior to the beginning of the course:
Chiang, A.C. and K. Wainwright (2005): Fundamental Methods of Mathematical Economics, Mc Graw-Hill Irwin.

GRADE Center GSEFM

Organizational Information

Language / Format	English / On campus
Target group	Doctoral Candidates at all stages from all faculties
Date	Tuesday-Friday, 19-22 September 2023, 9:00 – 13:30
Registration	**For registration click here**