

Linear Algebra, Linear Difference Equation Systems and Introduction to MATLAB

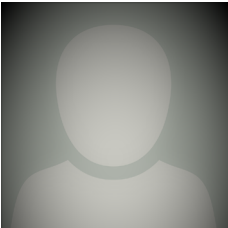
In cooperation with the GRADE Center GSEFM



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)

Trainer



Taha Direk



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, McGRAW-HILL IRWIN.



Organizational Information

Language / Format	English / On campus
Target group	Doctoral Candidates at all stages from all faculties
Date	Wednesday-Friday, 16-18 September 2026, 9:00 – 13:30 Monday, 21 September 2026, 9:00 – 13:30
Registration	For registration click here