

Seminar in Information Systems in Financial Analysis

MSc in Finance & Banking

Athens University of Economics & Business

Instructor: John Halikias, Emeritus Professor of Quantitative Analysis

Aims and objectives:

Objectives of the seminar are to introduce the current methods and techniques that are used in financial analysis with the aid of electronic spreadsheets. Real case studies are presented in all lectures, which take place in PC lab, and the solution of the financial problems is worked out with the known package Microsoft Excel. In particular, syllabus includes spreadsheets basics, income statements, balance sheets, cash flows, time value of money, bank loans, etc. There are also special topics in investment analysis (sensitivity analysis, scenario manager, goal seek, goal seek with restrictions - solver, net present value and internal rate of return), tables and pivot tables.

Course outline:

- Income Statements
- Balance Sheets
- Cash Flow Analysis
- Time Value of Money
- Investment Appraisal: Net Present Value, Internal Rate of Return, etc.
- Project Finance
- Sensitivity Analysis and Scenario manager
- Goal Seek
- Goal Seek with Restrictions (Solver)
- Table Analysis (Table and Pivot Table)

Reading List:

- *Financial Analysis with Microsoft Excel 2010*, Timothy R. Mayers & Todd M. Shank, Cengage Learning, 6th Edition, 2011
- *Microsoft Excel 2010 Formulas*, John Walkenbach, John Wiley & Sons, 2010