

Information Systems in Financial Analysis
M.Sc. in Finance and Banking
Athens University of Economics & Business
Instructor: Prof. John Halikias

Aims and objectives:

The aim of this course is to introduce students to current methods and techniques that are used in financial analysis with the aid of electronic spreadsheets. Real case studies are presented in all lectures 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. Lectures take place in PC lab and the presentation is based in real case studies.

At the end of the course, students will have a good knowledge of using spreadsheets from basic screen navigation skills to building fairly complex financial models. Students will gain also valuable insights and a deeper understanding of financial analysis by actually building their own spreadsheets. By creating their own spreadsheets, students will have to actually confront many issues that otherwise would be left unexplored.

Course outline and reading list:

1. Income Statements
2. Balance Sheets
3. Cash Flow Analysis
4. Time Value of Money
5. Investment Appraisal: Net Present Value, Internal Rate of Return, etc.
6. Project Finance
7. Sensitivity Analysis and Scenario Manager
8. Goal Seek
9. Goal Seek with Restrictions (Solver)
10. Table Analysis (Table and Pivot Table)
11. Data Analysis

Text Books:

Mayers R. Timothy & Shank M. Todd (2011), *Financial Analysis with Microsoft Excel 2010*, Cengage Learning, 6th Edition

Walkenbach J. (2010), *Microsoft Excel 2010 Formulas*, John Wiley & Sons

Carlberg C. (2010), *Business Analysis: Microsoft® Excel® 2010*, 1st ed., Indianapolis, IN: Que Publishing.

Walkenbach, J. (2010), *Microsoft® Excel® 2010 Bible*, 1st ed., Indianapolis, IN: John Wiley & Sons.

Winston, W. (2011), *Microsoft® Excel® 2010: Data Analysis and Business Modeling*, 3rd ed., Redmond, WA: Microsoft Press.

Francis Clauss (2009), *Corporate Financial Analysis with Microsoft Excel*, McGraw Hill Professional.