PROJECT EVALUATION

Class E1

2015/1016 - 2nd Semester

PROGRAM

Chapter 1 - Basic Concepts

- 1. Notion of Real Investment
- 2. Analysis of Real Investments
- 3. Opportunity Cost of Capital
- 4. Uncertainty and Future Financial Flows
- 5. Financial Flows and Incremental Logic
- 6. Net Present Value NPV
- 7. Case Studies

Chapter 2 - Investment and Entrepreneurial Strategy

- 1. Preliminary Aspects
- 2. Strategic Process
- 3. Strategic Process and Investment Analysis
- 4. Case Studies

Chapter 3 - Capital Investment

- 1. Basic Notion of Capital Investment
- 2. Fixed-Capital Asset
- 3. Working Capital
- 4. Residual Value
- 5. Physical and Financial Maps
- 6. Investment Duration
- 7. Importance of Strategic Analysis
- 8. Case Studies

Chapter 4 - Financial Flows of Investment/Financial Statements

- 1. Strategic Analysis and Activity Level
- 2. Capital Budgeting
- 3. Financial Statements
- 4. General Conditioning of Financial Flows
- 5. Operational Cash-Flow, Free Cash Flow and Global Cash-Flow
- 6. Flow of Cash, Free Cash-Flow and Global Cash-Flow of Shareholders
- 7. Case Studies

Chapter 5 - Financing of Projects

- 1. Investment Decision and Financial Decision
- 2. Level of Indebtedness and Cost of Equity and Debt
- 3. Capital Structure Decision Classic Vision

- 4. Capital Structure Decision Other Visions
- 5. Dividend Policy and Capital Structure
- 6. Cost of Invested Capital
- 7. Case Studies

Chapter 6 - Project Selection

- 1. Evaluation Models NPV, IRR, MIRR, Payback Period, IR, APV
- 2. Sequential NPV Profile
- 3. Case Studies

Chapter 7 - Decision under Uncertainty

- 1. Uncertainty and Risk
- 2. Incorporation of Risk in Investment Analysis
- 3. Sensitivity Analysis
- 4. Scenario Analysis
- 5. Case Studies

Chapter 8 - Inflation in Investment Analysis

- 1. Basic Concepts Inflation, Uncertainty and Discount Rate
- 2. Inflation Impact on Investment Analysis
- 3. Additional Notes About Inflation Impact

ASSESSMENT:

- Intermediate Test (1/3) + Written Test (2/3) = 40%.
 - Written Test is about all subjects of the Program (May 2016). Access condition: have missed a maximum of 4 classes.
- Exam (EN or ER) = 60%.
- The final mark can be obtained by 2 ways. From both alternatives the higher mark is selected.
 - o (1) Only the Exam (EN or ER) or
 - o (2) Exam (EN or ER) (60%) and the Intermediate Test & Written Test (40%).

Main BIBLIOGRAPHY

Crundwell, F. K. (2008). Finance for Engineers - Evaluation and Funding of Capital Projects, Springer.