

COURSE OUTLINE

Year: 2007/2008

LEVEL: I Term: 1

NAME OF THE SUBJECT: **QUANTITATIVE METHODS for ANALYSIS**

CREDITS: 4

NAME OF THE TEACHER: **RICARDO S. ESTERA**

SHORT CV OF THE TEACHER:

Academic background: Business Administration (Professor Mercantile) (UB), Corporate Business (E.A.D.A), Economic Planning (UAM).

Business background: 24 years in a US multinational corporation: Union Carbide a leading world-wide corporation in manufacturing: chemicals, plastics, industrial gases, graphite electrodes and consumer products.

Relevant positions: 4 years as Finance Director in Spain, 3 years as Foreign Exchange and Money Mgr. in Switzerland, 5 years as Finance Director in Brazil, 8 years as V.P Finance & Control for Europe, 2 as V.P CFO & Treasure in Danbury US in a Joint-Venture between Union Carbide and Mitsubishi Corp.

SEMESTER 1

COURSE DESCRIPTION: The course covers the basic quantitative methods and formulas used in measuring business performances from progressions, Present and Future values using compounding interest and continuously compounding. Ordinary Annuities, Amortization of Debt, Equity and Mortgage and Sinking Funds, Bond pricing and Break-even analysis.

COURSE OBJECTIVE: You learn to develop and use the mathematical concepts that will help you to understand business performance and how to set-up prices for specific securities.

COURSE STRUCTURE: 13 classes (Sem I) and 20 (Sem II) of 2 hours duration. No homework is required. Formulas and Methods used based on EXCEL 2003, a PC is required.

SYLLABUS

SEMESTER 1			
			CLASS SUBJECT
12 Sept-14 Sept	Enrolment / Orientation / Registration Week	Wk 1	
17 Sept -21 Sept	Teaching Week 1	Wk 2	Depreciation of Assets, Gross Margin, Income Taxes, Cash discount, Retail prices
25 Sept -29 Sept	Teaching Week 2	Wk 3	Arithmetic and Geometric Progressions
01 Oct -05 Oct	Teaching Week 3	Wk 4	Simple Interest, Exact and Ordinary Drafts, Treasury bills, PV of the Debt
08 Oct -11 Oct	Teaching Week 4 12 Oct Bank Holiday	Wk 5	Merchant's rule, Instalment buying, Constant Ratio formulas, Series of payment formulas
15 Oct -19 Oct	Teaching Week 5	Wk 6	Compound Interest, fractional periods, Nominal and Effective.
22 Oct -26 Oct	Teaching Week 6	Wk 7	Compound Interest, fractional periods, Nominal and Effective.
29 Oct -02 Nov	Teaching Week 7 01 Nov Bank Holiday	Wk 8	Continuously compounding interest
05 Nov -09 Nov	Teaching Week 8	Wk 9	Present Value formulas and analysis
12 Nov -16 Nov	Teaching Week 9	Wk 10	Future Value formulas and analysis
19 Nov -23 Nov	Teaching Week 10	Wk 11	Net Present Value and IRR formulas and analysis
26 Nov -30 Dec	Teaching Week 11	Wk 12	Investment Project (Study case)
03 Dec -07 Dec	Teaching Week 12 06 Dec - 07 Dec Bank Holiday	Wk 13	Investment Project (Study case)
10 Dec -14 Dec			
	EXAMS	Wk 14	Exam
	TOTAL HOURS	26	Including the exam