Syllabus
Course description

Course title	Industrial Accounting and Management (Accounting, Finance, Investment)
Course code	47510
Scientific sector	ING-IND/35
Degree	**Master in Industrial and Mechanical Engineering (LM-33)**
Semester	1
Year	1
Academic year	2016/2017
Credits	10
Modular	no

Total lecturing hours	64
Total lab hours	-
Total exercise hours	32
Attendance	Not compulsory
Prerequisites	-
Course page	

Specific educational objectives	The course is one of the basics of the scientific area of Management Engineering. The course gives a general overview of the scientific contents. During the course, the presented theoretical topics will integrated through targeted application-oriented exercises and cases. The learning objectives are to introduce engineering students in the fundamentals of financial and management accounting and to teach them how to develop a business plan. Specifically, it will deal with the themes of financial management, investment analysis, company costs, management accounting and business planning.

Lecturer	Tbd and tbd
Scientific sector of the lecturer	ING-IND/35
Teaching language	English
Office hours	
Teaching assistant *(if any)*	-
Office hours	See on timetable

List of topics covered	**1. Financial Accounting**
	  ▪ The nature and purpose of accounting
	  ▪ Basic accounting concepts
	  ▪ Accounting records and systems

	▪ Revenue and monetary assets ▪ Cost of sales and inventories ▪ Long-lived non monetary assets and their amortization ▪ Sources of capital (Debt and Owners' Equity) ▪ Other items that affect net income and owners' equity ▪ Statement of cash flows ▪ Financial statement analysis **2. Management Accounting** ▪ The nature of management accounting ▪ The behavior of costs ▪ Full costs and their uses ▪ Additional aspects of product costing systems ▪ Standard costs and variable costing systems ▪ Strategic planning and budgeting ▪ Management accounting system design **3. Business Planning** ▪ Introduction ▪ Business plan structure ▪ Business plan writing and presentation
Teaching format	The teaching format is based on frontal lectures, exercises and business cases. In addition to a solid theoretical background, special attention will be dedicated to examples, exercises and case studies discussion. Students will also develop a business plan to apply in practice the knowledge acquired in the course.

Learning outcomes	**Knowledge and Understanding** • Advanced understanding of management and business administration • Knowledge of the various tasks, methods and approaches of financial and management accounting • Knowledge of the management models for economic and financial management **Applying knowledge and understanding** • Analysis and solution methods • Ability to write a business plan • Ability to do advanced resolutions of financial management accounting tasks **Making judgements** • Systems Thinking - overview of the economic and financial organization • Ability to transfer the knowledge and methods learned to real practical applications **Communication skills** • Ability to structure, prepare, and present a business

	plan **Ability to learn** • Ability to autonomously extend the knowledge acquired during the study course by reading and understanding.
Assessment	The assessment is based on a written exam (exercises and questions) and the discussion of a business plan developed by the student.
Assessment language	English
Evaluation criteria and criteria for awarding marks	The final mark is the sum of the marks of the different parts of the exam. The assessment of the written part is based on ability to solve simple exercises about the topics of the course, clarity of answers, mastery of language (also with respect to teaching language), ability to summarize and establish relationships between topics. The assessment of the business plan is based on clarity of presentation, level of detail, and soundness of market and financial estimations.

Required readings	Antony R.N., Hawkins D.F., Merchant K.A., "Accounting: Text and Cases", Thirteenth Edition, McGraw-Hill International Edition. Lecture slides and notes.
Supplementary readings	