

Course file

Study cycle	BACHELOR IN CIVIL ENGINEERING		
Course	MANAGEMENT IN CONSTRUCTION	Mandatory	<input checked="" type="checkbox"/>
		Optional	<input type="checkbox"/>
Course scientific area	MANAGEMENT	Category	E

Course category: B - Basic; C - Core Engineering; E - Specialization; P - Complementary.

Year: 3rd	Semester: 5th	ECTS: 4,0		Total: 108
Contact time	T: 22,5	TP: 22,5	PL:	S: OT:

T - Lectures; TP - Theory and practice; PL - Lab Work; S - Seminar; OT - Tutorial Guidance.

Course Director	Title	Position
Filipe Vasques	Doutor	Professor Adjunto

Learning objectives (knowledge, skills and competences to be developed by students)

(max. 1000 characters)

- A. Create awareness of the Construction and Real Estate Sector's reality, either economic, legislative, corporate structure and other specific characteristics that condition its situation and consequently the activity of management of construction companies in the national and international market ;
- B. Create awareness to the concepts of management systems and their application within the reality of the sector;
- C. Provide fundamental accounting concepts and their practical relevance, in order to create basic reading skills of fundamental financial statements - balance sheet and income statement;
- D. Make students proficient in procedures related to the invoicing of construction works and analyze the reality of a construction contract from a financial perspective;

Syllabus

(max. 1000 characters)

1. Characterization of the Construction and Real Estate Sector;
2. Construction Law: Legal Regime of Urbanization and Construction, Access and Maintenance in the Construction Industry, Code of Public Contracts; Prive Review; Other;

3. Organization of construction companies;
4. Quality Management Systems (ISO 9001), Environmental Management Systems (ISO 14001), Safety and Health Management Systems (OSHAS 18000) in the Civil Construction Industry, Integrated Management Systems;
5. Principles of Accounting;
6. Invoicing and Financial Control of construction contracts;

Demonstration of the consistency between the syllabus and the course objectives

(max. 1000 characters)

The contents of 1,2 and 3 connect directly with the target A.

Content 4 connects directly with the objective B

Content 5 connects directly with the objective C.

Content 6 connects directly with target D.;

Teaching methodology (evaluation included)

(max. 1000 characters)

The teaching methodology includes the following components:

- General Lectures preceded by distribution of support elements, making them more useful and objective;
- Practical Classes, applying concepts and methodologies to the solution of problems and case presentation, including detailed discussion - these alternate with lectures for a more effective outcome;

Evaluation includes a written examination comprising questions about the theoretical concepts and principles , but mostly practical problems. The exam is worth 60% of the grade. The remaining 40% correspond to projects developed during the term about specific problems or themes.

Demonstration of the consistency between teaching methodology and the course learning objectives

(max. 3000 characters)

- The Lectures about the Syllabus contents, preceded by the distribution of support elements aim to create

the foundation to achieve each objective in a specific and articulated manner, namely in the understanding of base concepts, definitions and methodologies of each module;

- The Practical Classes of concept and methodology application to the solving of problems and discussion of real cases framed in the syllabus contents aim to consolidate the contribution of the lectures with which they alternate for a more complemented outcome in the sense of a complete understanding of base concepts and methodologies, as well as their practical use;

Concerning evaluation, the written test (global test /exam) covers in equal parts the theoretical concepts and methodologies and practical problems on real cases, integrating all the objectives described

Notwithstanding, and given the time limitations of the exam, there is another component to the evaluation that corresponds to one or more projects of either solving of practical questions, case analysis or the development of specific themes, where one can explore situations with more detail and/or complexity.

Main Bibliography

(max. 1000 characters)

Neves, João Carvalho das, "Análise Financeira: Método e Técnicas", Texto Editora, 1989

Menezes, H. Caldeira, "Princípios de Gestão Financeira", Editora Presença, 2001

Pires A. Ramos - Sistemas de Gestão da Qualidade , Ed, Sílabo, 2012

Applicable Standards and Regulations

Lecture's texts and presentations;

Construction Law: Legal Regime of Urbanization and Construction, Access and Maintenance in the Construction Industry, Code of Public Contracts; Prive Review; Other;