



PERSONA CIENCIA EMPRESA
Universitat Ramon Llull

TITLE OF COURSE: PROJECTS

MATTER: Projects

MODULE: Common to Industry Branch

PROGRAM TITLE: Degree on Industrial Technologies Engineering

GENERAL CHARACTERISTICS*

Type: Basic training, Compulsory elective, Optional

Final degree project, Practicum

Duration: Semiannual

Semester/s: 7

Number of credits ECTS: 3

Language/s: Spanish

DESCRIPTION

BRIEF DESCRIPTION AND JUSTIFICATION (the meaning of the course in relation to the studies. Between 100 and 200 words.)

The course consists of two main parts, the management and engineering projects. The two basics that an engineer can develop as such.

Project management includes previous studies, budgeting, planning and planning, organization and management, engineering, control, project quality, codes and standards.

The project includes engineering project documents, basic information, process engineering, basic engineering, development engineering, civil engineering, mechanical, electrical, purchasing management, construction and assembly, commissioning and legal aspects.

COMPETENCES (of the course made in relation to preassigned competences in this area.)

- Ability to solve problems with initiative, decision making, creativity, and critical thinking. (E4)
- Knowledge that enable them to carry out measurements and calculations assessments, appraisals, surveys, studies, reports, work plans and other similar work. (E5)
- Easy to handle specifications, regulations and standards required compliance. (E6)
- Ability to implement projects in the field of industrial engineering. (E9)
- Ability to communicate effectively, both orally and in writing, to impart knowledge and skills in the field of engineering industrial. (T1)
- Ability to monitor project activities arising in the area of industrial engineering. (T3)
- Capacity for organization and planning in the area of business and other institutions and organizations (T4).
- Ability to analyze and assess the social and environmental impact of the solutions techniques (T6).
- Applied knowledge of business organization. (CRI11)
- Knowledge and skills to organize and manage projects. knowing the organizational structure and functions of an office project. (CRI12)

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PREREQUISITES* (modules, matters, courses and knowledge needed to follow the course. Can be stated that courses must have been completed.)
Competences of the earlier educational stages.

CONTENTS (as a relationship of the chapters that constitute the contents, or topics covered, of the course to a second level detail.)

PART I The Project Management

- Item 1. Introduction to the General Theory Project
- Item 2. Classical theory of the Project.
- Item 3. General Theory Project.
- Item 4. Previous studies (feasibility) and project definition.
- Item 5. Budget estimates.
- Item 6. Project planning and scheduling. Time management.
- Item 7. The optimization of project resources.
- Item 8. The organization and management of the project.
- Item 9. The director of the project.
- Item 10. Engineering.
- Item 11. The execution of the project.
- Item 12. The cost of the project.
- Item 13. The organization of the project.
- Item 14. The Control Project.
- Item 15. The project quality plan

PART II. The Project Engineering.

- Item 1. Project documentation.
- Item 2. Computing projects.
- Item 3. The engineering process. Technology transfer
- Item 4. The basic information of the project.
- Item 5. Basic engineering for the project.
- Item 6. The engineering development.

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METHODOLOGY

TRAINING ACTIVITIES* (Complete the table relating activities, workload in ECTS credits, and competences.)

Training activities	ECTS Credits	Competences
Sessions presentation of concepts (A1)	0,6	E4, E5, E6, E9, T4, CRI11, CRI12
Sessions for resolution of exercises, problems and cases (A2)	0,35	T1, T3, T4, T6, CRI12
Seminars (A3)	0,05	
Personal mandatory activities professor-student (A4)	0,025	E4, E5, E6, E9, T4, CRI11, CRI12
Practical work / laboratory (A5)	0,6	E4, T1
Oral and writing presentations (A6)	0,025	E4, T1, CRI12
Personal study activities by students (A7)	1,15	E4, E5, E6, E9, T4, CRI11, CRI12
Jobs (A9)	0,1	E4, E5, E6, T4, T6, CRI11, CRI12,
Visits to companies (A10)	0,075	
TOTAL	3,00	

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EXPLANATION OF THE TEACHING METHODOLOGY (justifying the teaching methods used in relation to the competences and course contents. Between 100 and 200 words.)

The teaching methods used in the course is based on lectures and classes solving practical problems. The lectures and problem solving Dynamic link to explaining classes (presentation of content), Dynamic demonstrative (the teacher solve a problem) active and dynamic (the student solves problem). At the end of each class the student considers the problem to be solved for a kind of way that encourages future work outside the classroom. Practical work in the laboratory consists of explanations by the professor of tasks out, detailed reading of each practice to carry them out and move on make the report of this practice.

For personal study the student is provided with full documentation of the course theory, problems, laboratories. It also recommends complementary exercises of literature course.

EVALUATION

EVALUATION METHODS* (Fill in the table relating evaluation methods, competences and weight in the qualification of the subject.)

Evaluation Methods	Weight	Competences
Final Exam (A)	43%	E4, E5, E6, E9, T1, T3, T4, T6, CRI11, CRI12
Examination / s Partial / s / control / s scheduled / s (B)	17%	E4, E5, E6, E9, T1, T3, T4, T6, CRI11, CRI12
Activities done in class (C)	3%	T4, T6, CRI12
Exercises outside of class (D)	2%	T4, T6, CRI12
Reports realizats work (E)	6%	T3
Presentations and / or oral examinations (F)	1%	T1
Modeling, Proposed, etc.. (G)	5%	E4, E5, E6, E9, T1, T3, T4, T6, CRI11, CRI12
Laboratory reports (H)	8%	T1, T3, T4
Practical work / lab (I)	13%	T4, T6, CRI12
Work in other centers (Practicum) (J)	2%	T1, CRI12
Participations (K)	-	-

LEARNING OUTCOMES (Explanation of the achievements of students that allow competences evaluation, relating to competences and evaluation methods.)

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The student must demonstrate knowledge of the performance of an engineering project in all its phases (E4, E5, E6, E9, T1, T3, T4, T6, and CR111 CR112) [A, B, C, E, F, G, H, I]. The student must demonstrate knowledge of how to approach a project from the conceptualization phase, through the corporització to withdraw the product or service. And structures typical of engineering firms and management tools and control them. Given the environment, quality, cost and time.

QUALIFICATION (Explanation of the calculation system of qualifying the course.)

The course evaluation will consider all aspects of assessment in the table with its corresponding weight. The greater weight of the note falls on the Final Exam (A) 43%. Also included in the final results of programmed controls (B) 17% Activities done in class (C) 3%, reports of work done (E) 6%, presentations and / or oral examinations (A) 1 % Preparation of projects, models, etc.. (G) 5% Laboratory reports (H) 5% and assignments / lab (I) 8% and participation (K) 2%.

To pass the course you must have a minimum of five points. each of assessment activities, including the final exam must have a minimum of 4 points so that you can average the rest. We have also approved the Works practical / laboratory and project development, etc. models.

EVALUATION OF COMPETENCES (Defining expressions of calculation for each competence based on corresponding evaluations activities.)

To evaluate the skills of the course assessment activities in each part of the grade will reflect the skills acquired by the table of powers

Each activity will have a maximum grade assessment of ten points will be divided into amounts to quantify the degree of acquisition of skills by the student.

TEXTBOOKS (recommended and accessible to students.)

COLL , P. Apuntes asignatura Proyectos. "Parte I . La gestión del Proyecto" ,."Parte II.La Ingeniería de Proyectos". Edit. Instituto Químico de Sarriá (IQS).Barcelona. Enero 2008. Apuntes soportados en gran medida por las dos referencias siguientes.

COS , M de . " Teoría General de Proyectos" . Vol. I Dirección de Proyectos/ Project Management" .Editorial Síntesis. Madrid.

COS , M de . "Teoría General de Proyectos. Vol II . Ingeniería de Proyectos/ Project Engineering". Editorial Síntesis . Madrid .

NEWELL , M. W. , GRASHINA , M. N. . "Preguntas y Respuestas sobre la Gestión de Proyectos". Edit. Gestión 2000.

SANTOS , F. ."Ingeniería de Proyectos" . 2ª edición . Edit. EUNSA .

GUERRA , L. , CORONEL , A. J. , MARTÍNEZ , L. , LLORENTE , A. "Gestión Integral de Proyectos" . F. C. Editorial.

BODUNDE , A. "Project Management in Manufacturing and Hight Technology Operations" . 2ª Edición . Edit. Wiley Series in Engineering & Technology Management.

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ROMERO , C. "Técnicas de Programación y Control de Proyectos" . Edit. Pirámide.

AENOR . "Guía para la Implantación de Proyectos.

AGUINAGA , J. M. de . "Aspectos Sistémicos del Proyecto de Ingeniería". Centro de Diseño Industrial Universidad Politécnica de Madrid. Madrid. 1994.

HISTORICAL DOCUMENT

EARLIER CHANGES

March 2012. Eng. Ferran López Navarro

LAST REVISION