

Academic Year: (2020 / 2021)

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Department assigned to the subject: Computer Science and Engineering Department

Coordinating teacher: GARCIA CRESPO, ANGEL

Type: Compulsory ECTS Credits : 3.0

Year : 1 Semester : 2

OBJECTIVES

Core Competencies: CB7, CB8, CB9

General competencies: CG3, CG5, CG6, CG8, CG9, CG10, CG 11

Specific competencies: CE2

Basics

CB7

Students are able to apply their acquired knowledge and problem-solving skills in new or unfamiliar environments within broader (or multidisciplinary) contexts related to their area of study

CB8

That students are able to integrate knowledge and deal with the complexity of making judgements based on information that, while incomplete or limited, includes reflections on the social and ethical responsibilities linked to the application of their knowledge and judgements

CB9

Students should be able to communicate their findings and the ultimate knowledge and reasons behind them to specialist and non-specialist audiences in a clear and unambiguous manner

General

CG3

Ability to lead, plan and supervise multidisciplinary teams.

CG5

Capacity for the elaboration, strategic planning, direction, coordination and technical and economic management of projects in all areas of computer engineering following quality and environmental criteria.

CG6

Capacity for general management, technical management and research, development and innovation project management in companies and technology centres in the field of computer engineering.

CG8

Ability to apply acquired knowledge and solve problems in new or unfamiliar environments within broader, multidisciplinary contexts, with the capacity to integrate knowledge.

CG9

Ability to understand the ethical responsibility and professional deontology of the activity of the Computer Engineering profession.

CG10

Ability to apply the principles of economy and human resources and project management, as well as IT legislation, regulation and standardisation.

CG11

Ability to communicate (orally and in writing) conclusions - and the ultimate knowledge and reasons behind them - to specialist and non-specialist audiences clearly and unambiguously.

Specify

CE2

Capacity for strategic planning, elaboration, direction, coordination, and technical and economic management in the fields of Computer Engineering related, among others, to: systems, applications, services, networks, infrastructures or computer facilities and software development centers or factories, respecting the appropriate compliance with quality and environmental criteria and in multidisciplinary work environments.

The learning outcomes that the student acquires are as follows:

- To understand and apply the ethical responsibility and professional deontology of the activity of the Computer Science Engineering profession.
- To elaborate a strategic plan of information systems.
- Ability to manage companies and technology centers in the field of Computer Engineering.

DESCRIPTION OF CONTENTS: PROGRAMME

- 1.- Techniques for the analysis of companies
 - 1.1.- Company goal
 - 1.2.- Internal analysis
 - 1.3.- External analysis
 - 1.4.- Techniques for the analysis of companies
- 2.- Types of organizational structure.
 - 2.1. Main structures
 - 2.3. Definition of responsibility centres and their role in the organisation
 - 2.3. Managing changes in an organisational structureManagement control concepts for the search for information needs.
- 3.- Analysis of the information required by an information system.
 - 3.1. Steps required to carry out the analysis
 - 3.2. Analysis of the steps necessary to carry out the analysis of the information required by a information system.
- 4.- Management of an information system.
 - 4.1.- Information needs according to the different roles involved in an information system information.
 - 4.2.- Basic elements of system planning and services available in a department of systems.
 - 4.3.- Management control concepts for the search of information needs

LEARNING ACTIVITIES AND METHODOLOGY

- Exhibitions in class by the teacher with the support of computer and audiovisual media, in which the main concepts of the subject are developed and the bibliography is provided to complement the learning of the students.
- Critical reading of texts recommended by the subject teacher: Press articles, reports, manuals and/or academic articles, either for later discussion in class or to expand and consolidate the knowledge of the subject.
- Resolution of practical cases, problems, etc.... raised by the teacher individually or in groups
- Presentation and discussion in class, under the moderation of the teacher, of topics related to the content of the subject, as well as of practical cases.
- Preparation of individual or group work and reports

ASSESSMENT SYSTEM

% end-of-term-examination/test:	0
% of continuous assessment (assignments, laboratory, practicals...):	100

The evaluation mission is to determine the degree of fulfillment of learning objectives, therefore all work will be assessed the student, individually or collectively, through ongoing evaluation of its activities through homework and exams, practical work and other activities academic training described above.

There will be a formative assessment through continuous feedback, enabling the student to evaluate what a learner knows and what is expected of him.

The final mark takes into account the student's individual activities and team activities.

SE1 Participation in class -> 50%

SE2 Individual or group work done during the course -> 50%

BASIC BIBLIOGRAPHY

- Arjonilla Domínguez, Sixto Jesús y Medina Garrido, Jose Aurelio La gestión de los sistemas de información en la empresa, Ed. Pirámide..
- Charles S Parker Management Information Systems: Strategy and Action, McGraw-Hill Inc.
- Laudon y Laudon Management Information Systems, Prentice Hall.
- R. Andreu Estrategia y sistemas de información, Mc Graw Hill.