

[GOR201] INFORMATION SYSTEMS

GENERAL INFORMATION

Studies	DEGREE IN INDUSTRIAL ORGANIZATION ENGINEERING		Subject	Information systems
Semester	2	Course	3	Mention / Field of specialisation
Character	COMPULSORY		Language	ENGLISH
Plan	2017	Modality	Adapted Face-to-face	Total hours
Credits	6	Hours/week	5.56	100 class hours + 50 non-class hours = 150 total hours

PROFESSORS

EREÑO INCERA, ANA MONSERRAT

REQUIRED PREVIOUS KNOWLEDGE

Subjects	Knowledge
<i>(No specific previous subjects required)</i>	<i>(No previous knowledge required)</i>

SKILLS

VERIFICA SKILLS

SPECIFIC

GOC303 - To appropriately apply tools for executing industrial projects or services

GOC306 - To align computer science with business strategies, using ICT governance models for the design, development and management of dynamic and innovative organisations

GOC309 - To solve problems and analyse the implications of the solution proposed by defining actions which hinder the reappearance of problems (stable solution) and taking part in various work teams.

GOC310 - To draft different types of documents, arguing and justifying the conclusions and solutions presented therein and to communicate, present and share the information appropriately.

GENERAL

GOCT02 - To define, plan and control projects with regard to main limitations (time, deadlines, costs, resources)

GOCT03 - To use office and information tools as a support for planning, management, control and coordination activities

BASIC

G_CB2 - To be able to apply knowledge to occupational or professional tasks; have the necessary skills to pose and defend arguments, and to solve problems within their field of study

G_CB4 - To be able to communicate information, ideas, problems and solutions to both expert and lay audiences

ENAE LEARNING RESULTS

	ECTS
ENAE03 - Knowledge and understanding: Sufficient knowledge of their branch of engineering, including some knowledge at the forefront of their field.	0,8
ENAE05 - Analysis in engineering: Ability to apply their knowledge and understanding in identifying, formulating and solving engineering problems using established methods.	0,76
ENAE08 - Engineering projects: Ability to apply their knowledge in the development and completion of projects which meet specific requirements.	0,49
ENAE09 - Engineering projects: Understanding of the different methods and ability to use them.	0,49
ENAE10 - Research & innovation: Ability to perform bibliographic searches, to use databases and other sources of information.	0,49
ENAE12 - Research & innovation: Technical and lab competences.	0,49
ENAE13 - Practical application of engineering: Ability to select and use suitable equipment, tools and methods.	0,49
ENAE15 - Practical application of engineering: Understanding of applicable methods and techniques and their limitations.	0,49
ENAE17 - Transversal competences: To work effectively, both individually and in a team.	0,5
ENAE18 - Transversal competences: To use different methods to communicate effectively with the engineering community and society in general.	0,5
ENAE20 - Transversal competences: Demonstrate that they are aware of entrepreneurial practices and project management, in addition to risk control and management and understand their limitations.	0,5

Total: 6

LEARNING RESULTS

RG301 Assumes responsibilities in the work team, organizing and planning the tasks to be developed, facing the contingencies and encouraging the participation of its members.

LEARNING ACTIVITIES

CH

NCH

TH

Development, writing and presentation of memorandums, reports, audiovisual material, etc. Relating to projects/POPBLs carried out individually or in teams	3 h.	3 h.	6 h.
EVALUATION SYSTEM	W	MAKE-UP MECHANISMS	
Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence	100%	(No mechanisms)	
CH - Class hours: 3 h.			
NCH - Non-class hours: 3 h.			
TH - Total hours: 6 h.			

RG302 Analyze the intervening variables in the problem and propose actions for a stable situation.

LEARNING ACTIVITIES	CH	NCH	TH
Development, writing and presentation of memorandums, reports, audiovisual material, etc. Relating to projects/POPBLs carried out individually or in teams	2 h.	3 h.	5 h.
EVALUATION SYSTEM	W	MAKE-UP MECHANISMS	
Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence	100%	(No mechanisms)	
CH - Class hours: 2 h.			
NCH - Non-class hours: 3 h.			
TH - Total hours: 5 h.			

RG304 Define the problem, develop the solution and present the conclusions in a efficient manner, arguing and justifying each one of them in writing.

LEARNING ACTIVITIES	CH	NCH	TH
Development, writing and presentation of memorandums, reports, audiovisual material, etc. Relating to projects/POPBLs carried out individually or in teams	1 h.	5 h.	6 h.
EVALUATION SYSTEM	W	MAKE-UP MECHANISMS	
Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence	100%	(No mechanisms)	
CH - Class hours: 1 h.			
NCH - Non-class hours: 5 h.			
TH - Total hours: 6 h.			

RG305 Define the problem, develop the solution and present the conclusions in a efficient manner, arguing and justifying each one of them in spoken form.

LEARNING ACTIVITIES	CH	NCH	TH
Development, writing and presentation of memorandums, reports, audiovisual material, etc. Relating to projects/POPBLs carried out individually or in teams	1 h.	5 h.	6 h.
EVALUATION SYSTEM	W	MAKE-UP MECHANISMS	
Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence	100%	(No mechanisms)	

CH - Class hours: 1 h.
NCH - Non-class hours: 5 h.
TH - Total hours: 6 h.

RG0308 Learn about the ICT tools that enable managing collaborative projects.

LEARNING ACTIVITIES	CH	NCH	TH
Development, writing and presentation of memorandums, reports, audiovisual material, etc.	20 h.	20 h.	40 h.
Relating to projects/POPBLs carried out individually or in teams			

EVALUATION SYSTEM	W	MAKE-UP MECHANISMS
Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence	100%	(No mechanisms)

CH - Class hours: 20 h.
NCH - Non-class hours: 20 h.
TH - Total hours: 40 h.

RG0314 Identifies ICT assets and selection criteria to address a decision process.

LEARNING ACTIVITIES	CH	NCH	TH
Presentation of the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects	10 h.	5 h.	15 h.
Individual and team exercises	10 h.	5 h.	15 h.

EVALUATION SYSTEM	W	MAKE-UP MECHANISMS
Individual written and oral tests to assess technical skills of the subject	50%	(No mechanisms)
Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence	50%	

CH - Class hours: 20 h.
NCH - Non-class hours: 10 h.
TH - Total hours: 30 h.

RG0315 Integrate ICT assets into an enterprise architecture, justifying its alignment with the organization's objectives.

LEARNING ACTIVITIES	CH	NCH	TH
Presentation of the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects	20 h.	1 h.	21 h.
Individual and team exercises	20 h.	1 h.	21 h.

EVALUATION SYSTEM	W	MAKE-UP MECHANISMS
Individual written and oral tests to assess technical skills of the subject	50%	(No mechanisms)
Reports of solving exercises, case studies, computer practices, simulation practices and laboratory practices	25%	
Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence	25%	

CH - Class hours: 40 h.

NCH - Non-class hours: 2 h.
TH - Total hours: 42 h.

RG0316 Identifies, defines and redesigns the business processes to obtain a dynamic and innovative organization.

LEARNING ACTIVITIES	<i>CH</i>	<i>NCH</i>	<i>TH</i>
Presentation of the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects	8 h.		8 h.
Individual and team exercises	5 h.	2 h.	7 h.

EVALUATION SYSTEM	<i>W</i>	MAKE-UP MECHANISMS
Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence	100%	<i>(No mechanisms)</i>

CH - Class hours: 13 h.
NCH - Non-class hours: 2 h.
TH - Total hours: 15 h.

CONTENTS

Map of ICTs in the company. ICTs as support for project management processes. ICT tools selection process. Phases and criteria to follow. Business architecture, essential to align business objectives with ICTs. Layers of Infrastructure, Data, Application, Service, Process and Strategy

LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources

Subject notes
 Technical articles
 Topic related web quires
 Moodle Platform

Bibliography

(No bibliography)