IDENTIFYING DATA
(*)Necesidades e Tecnoloxías dos Sistemas de Información

Subject	(*)Necesidades e Tecnoloxías dos Sistemas de Información			
Code	P02M163V01114			
Study programme	(*)Máster Universitario en Dirección Integrada de Proxectos			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	5	Optional	1st	An
Teaching language	Spanish			
Department	Systems Engineering and Automatisms			
Coordinator	Sáez López, Juan			
Lecturers	Sáez López, Juan			
E-mail	juansaez@uvigo.es			
Web	http://www.mdip.es			
General description	(*)Formulación da Enxeñaría de Sistemas para o desenvolvemento de proxectos e a integración dos sistemas de información industrial			

Competencies

Code	
A2	That the students know to apply the knowledges purchased and his capacity of resolution of problems in new surroundings or little known inside contexts wider (or multidisciplinary) related with his area of study.
B1	Capacity of analysis and synthesis.
B2	Capacity of Organisation and Planning
C20	Capacity to apply the knowledges purchased to the professional field in which it develops his activity the Project Manager.
C21	Capacity to manage the obtaining of the resulted chord to the criteria of term, cost and quality, and of the customer
D5	Value critically the knowledge, the technology and the available information to resolve the problems with which have to confront.

Learning outcomes

Expected results from this subject	Training and Learning Results
Be Able to identify the data and technologies that need integrate in a system of information so that it offer *interfaces stop all the aspects of information required	A2 B1 B2 C20 C21 D5

Contents

Topic	
Subject 1. Current surroundings and Definition of engineering of systems	The concept
Subject 4.The process of engineering of systems	The engineering of systems
Subject 5. Integration of the systems of information.	The integration

(*)Tema 4. Arquitecturas básicas de automatización industrial	(*)sensores e actuadores buses de campo equipos de control IHM e SCADA comuniacions industriais	
(*)Tema 5. sistemas automáticos de manutención	(*)Manutención industrial Transportes automáticos Almacenaje automático Manipulación automática	

Planning

	Class hours	Hours outside the classroom	Total hours
Lecturing	30	0	30
Problem solving	27	0	27
Case studies	24	0	24
Supervised work	12	0	12
Problem solving	30	0	30
Short answer tests	2	0	2

*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

Methodologies

	Description
Lecturing	Exhibition by part of the professor of the contained envelope to subject *objecto of study, theoretical bases and/or guidelines of the work, exercise or project to develop pole student.
Problem solving	Along the course will propose exercises that will owe to resolved of individual form by part of student.
Case studies	Along the course present situations problem that will be #analyze and studied by part of the students to propose solutions to the even.
Supervised work	Individual works or grupal tutor put professor.

Personalized attention

Tests	Description
Problem solving	The student will receive attention individual in the time of tutor established it such end during it present academic course. Stop the query of the his schedule of tutor and place of the same will owe to consult the web of the master: www.mdip.es

Assessment

	Description	Qualification	Training and Learning Results	
Problem solving	Resolution of problems/geared exercises teaching pole	50	B1	C20 C21
Short answer tests	Short questions envelope the contents of the subject	50	B1 B2	C20 C21

Other comments on the Evaluation

Sources of information
Basic Bibliography
Complementary Bibliography

Robert S. Kaplan y David P. Norton, **Strategy MAPS**, 1ª Edición, Harvard Business School Press, 2004

Steven Alter, **Information Systems**, 4ª Edición, Prentice Hall Editions, 2002

George M. Marakas, **Modern Data Warehousing, Mining, and Visualization**,

Recommendations
Subjects that continue the syllabus

(*)Xestión dun Proxecto TIC/P02M163V01115

Subjects that it is recommended to have taken before

(*)Seguemento, Control e Peche do Proxecto/P02M163V01113