Universida_{de}Vigo

Subject Guide 2021 / 2022

IDENTIFYIN	<u> </u>			
Subject	Systems Needs and Technologies Information			
Jubject	Systems Needs			
	and Technologies			
Code	P02M163V01114			
Study	(*)Máster		-	
programme	Universitario en			
. 3	Dirección Integrada			
	de Proxectos			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	5	Optional	1st	An
Teaching	Spanish			
language				
Department				
Coordinator	Cancela Carral, José María			
Lecturers	Cancela Carral, José María			
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Web	http://www.mdip.es			
General description	This course is aimed at students who are going to w them to analyse and identify a technological project looking at the information, data and technology sys short, it will help them to manage and direct IT syst information.	t in the business field tems that need to be	d, from all disci	plinary points of view,

Skills

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
- C4 Know initiate, schedule, direct, control and close Projects of Systems of Information in the speciality of Systems of Information
- C19 Capacity for the editorial of the project as well as for his communication of form convincing, clear, concise and without ambiguities
- 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
- C22 Habits of excellence and ethical commitment in the professional exercise of the Project Manager.
- D5 Value critically the knowledge, the technology and the available information to resolve the problems with which have to confront.
- Use the basic tools of the technologies of the information and the communications (TIC) necessary for the exercise of his profession and for the learning along his life.

Learning outcomes	
Expected results from this subject	Training and
	Learning Results

Be able to analyze and identify a technological project from all disciplinary points of view, contemplating	A2
all aspects of information that can intervene in the system.	B1
an aspects of information that can intervene in the system.	B2
	C4
	C19
	C20
	C21
	C22
	D5
	D8
Be able to identify the data and technologies that need to be integrated into an information system so	A2
that it provides interfaces for all aspects of the required information	B1
	B2
	C4
	C19
	C20
	C21
	C22
	D5
	D8

Contents	
Topic	
Topic 1. The business world and its information	Objectives of a company
	Areas of activity of a company
	Organizational Structures and Designs
	Information systems in the company
Topic 2. Information Systems	Information Systems (IS) Definition
	Components of an SI
	Classification of IS
	Principles in the development of an IS
	The life cycle of an SI
Topic 3. Strategic planning of IS	Concepts
	IS/IT strategic planning process
	Phase 1. Understanding the business strategy
	Phase 2. Analysis of the current IS/IT
	Phase 3. Formulation of the strategy
	Phase 4. Implementation plan
Topic 4. Architecture, communications and	Introduction
system development	Modularity: concepts
	Software architecture
	Architectural principles
	Databases
	Communications and networks
Topic 5. Company management applications	Introduction
	Enterprise Resource Planning: ERP
	Customer relationship management: CRM
	Supply Chain Management: SCM
	Corporate Information Integration: Ell
Topic 6. Analysis applications	Introduction
	Business Intelligence (BI)
	Business Process Management: BPM
	Decision-making support systems: DSS
Topic 7. Internet trends and mobility	Web and social networks (Web2.0)
	Mobile Advances
Topic 8. Trends in Cloud Services	Cloud Computing
	Big Data
Topic 9. Trends in digital marketing and e-	E-Business
commerce	Digital Marketing

Planning			
	Class hours	Hours outside the classroom	Total hours
Lecturing	30	0	30
Problem solving	27	0	27
Case studies	24	0	24
Mentored work	12	0	12

Problem and/or exercise solving	30	0	30	
Problem and/or exercise solving	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	Presentation by the teacher of the contents on the subject of study, theoretical bases and/or guidelines of the work, exercise or project to be developed by the student.
Problem solving	Exercises will be proposed to be solved individually by the student.
Case studies	Problem-situations are presented, which will be analyzed and studied by the students in order to propose solutions to the case.
Mentored work	Individual or group work tutored by the teacher.

Personalized assistance				
Tests Description				
Problem and/or exercise solving	The student will receive individualized attention during the tutorial schedule established for this purpose during the current academic year. To consult the tutorial schedule and location, please visit the master's degree course website: www.mdip.es			

Assessment						
	Description	Qualification	1	Training F	and Le Results	arning
Case studies	Study of cases proposed by the teacher with the delivery of the proposed answers or a possible solution to the case by the student	30	A2	B1 B2	C4 C19 C21	D5 D8
Mentored work	Elaboration, in a guided way, of a practical case proposed by the student	e 20	A2	B1 B2	C4 C19 C20 C21 C22	D5 D8
Problem and/or exercise solving	Short questions about the subject matter	50		B1 B2	C20 C21	D5

Other comments on the Evaluation

Sources of information

Basic Bibliography

Complementary Bibliography

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

Anita Cassidy, **A Practical Guide to Information Systems Strategic Planning**, 978-0-8493-5073-3, 2ª Edición, Auerbach Publications, 2005

Effy Oz, **Administración de los sistemas de información**, 978-607-481-434-7, 5ª Edición, Cengage Learning Editores, S.A., 2008

Vicenç Fernández Alarcón, **Desarrollo de sistemas de información: Una metodología basada en el modelado**, 84-8301-862-4, 1ª Edición, Edicions de la Universitat Politècnica de Cataluny, 2006

James D. McKeen; Heather A. Smith, **IT Strategy: Issues and Practices**, 978-1-292-08026-0, 3ª Edición, Pearson Education Limited, 2015

Tomás Guillén Gorbe, Las TIC en la estrategia empresarial, V-3094-2007, 1ª Edición, Anetcom, 2007

James A. O□Brien; George M. Marakas, **Sistemas de información gerencial**, 970-10-5630-2, 7ª Edición, McGRAW-HILL/INTERAMERICANA EDITORES, S.A. DE C.V., 2006

Kenneth C. Laudon; Jane P. Laudon, **Sistemas de información gerencial**, 978-607-32-3696-6, 14ª Edición, PEARSON EDUCACIÓN, México,, 2016

Sandra Sieber; Josep Valor; Valentín Porta, **Los Sistemas De Información En La Empresa Actual**, 84-481-4006-0, 1ª Edición, McGraw-Hill, 2006

Recommendations

Subjects that continue the syllabus

Management of an ICT Projects/P02M163V01115

Subjects that it is recommended to have taken before

Project Monitoring, Control and Closure/P02M163V01113

Contingency plan

Description

As a consequence of the COVID-19 and in accordance with the extraordinary and urgent measures for the development of the teaching organization in the course 2020/2021 in case of health crisis, approved by the Governing Council of June 12, 2020 and the Rectory Resolution of June 17, 2020 for its implementation, an instruction from the VOAP for the elaboration of the teaching guides was elaborated.

Based on this, the teaching of this subject in the event of a resurgence of the COVID-19 will be by means of virtual attendance (Classroom 12; https://campusremotouvigo.gal/public/2025273042), in which neither the teacher nor the student attend the classroom. Classes and evaluation will be carried out through Remote Campus and Moodle platform. If necessary, this modality will be activated by means of RR.