Universida_{de}Vigo

Subject Guide 2023 / 2024

IDENTIFYIN	<u> </u>				
	n Systems Needs and Technologies Information				
Subject					
	Systems Needs				
Code	and Technologies P02M163V01114				
Study	Máster Universitario en				
programme					
	Dirección Integrada de Proyectos				
Doggrintoro		Chassa	Vaar	Oundmonster	
Descriptors	ECTS Credits	Choose	Year	Quadmester	
Tanakina	5 Granish	Optional	1st	An	
Teaching	Spanish				
language					
Department	Console Count to a Maria				
Coordinator	Cancela Carral, José María				
Lecturers	Cancela Carral, José María				
	Núñez Ortuño, José María				
E-mail	chemacc@uvigo.es				
Web	http://www.mdip.es				
General	This subject, oriented to students that go to make h				
description	TIC, will qualify them to analyse and identify a tech				
	seen disciplined, contemplating the systems of information, data and technologies that need integrate in a				
	company and, in definite, will help them to manage	and direct projects	of systems		
	of information.				

Training and Learning Results

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.
- D8 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.

Expected results from this subject	
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 of	offer A2
interfaces for all the appearances of information required.	B1
	B2
	C4
	C19
	C20
	C21
	C22
	D5
	D8

Contents	
Topic	
Subject 1. The business world and his information	
	Areas of activity of a company
	Structure and organisational designs
	Information systems in the company
Subject 2. Information Systems	Information Systems (IS) definition
,	Components of an IS
	Classification of IS
	Principles in the development of an IS
	The cycle of life of an IS
Subject 3. Strategic planning of IS	Concepts
	Process of strategic planning of IS
	Phase 1. Understanding of the strategy of business
	Phase 2. Analysis of the actual IS
	Phase 3. Formulation of the strategy
	Phase 4. Plan of implantation
Subject 4. Architecture, communications and	Introduction
development of systems	Modularity: concepts
	Software architecture
	Architectural principles
	Databases
	Communications and networks
Subject 5. Applications of management of the	Introduction
company	Enterprise Resource Planning (ERP)
	Customers Relations Management (CRM)
	Supply Chain Management (SCM)
Subject 6. Applications of analysis	Introduction
	Business Intelligence: BI
	Architecture of a BI
	Business Process Management: BPM
	Systems for taking decisions: DSS
Subject 7. Applications for the management of	SLA Politics
incidences	Architecture of ticketing tools
	Ticketing tools
Subject 8. Tendencies of internet and mobility	Web and social networks (Web2.0)
	Web 3.0
	Mobile Advances: NFC, IoT, BigData, BYOD, RPA, etc.
Subject 9. Tendencies in Cloud services	Big Data
	Cloud computing
	Virtualization
Subject 10. Tendencies in the digital marketing	E-Business
and e-commerce	Digital Marketing
	Social Gaming 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	Exhibition by part of the professor of the contents on the matter of study, theoretical bases and/or guidelines of the work, exercise or project to develop by the student.
Problem solving	They will propose exercises that will have to resolve of individual form by part of the student.
Case studies	They present situations-problem that will be analysed and studied by the students to propose solutions to the case.
Mentored work	Individual or grouped works mentored by the professor.

Personalized assistance			
Tests	Description		
Problem and/or exercise solving	The student will receive individualized attention in the tutoring schedule established for this purpose during the current academic year. To consult the tutoring schedule and the place where the tutoring will take place, please consult the Master's website: www.mdip.es		

Assessment						
	Description	Qualification	Trair	ning	and Le	arning
				R	esults	
Case studies	Face-to-face and on-line modality: study of cases proposed by the professor with the delivery of the answers posed or a possible solution of said case by part of the student	. •	·	B1 B2	C4 C19 C21	D5 D8
Mentored work	Face-to-face and on-line modality: preparation, of form guided, of a practical case proposed by the student	20	·	B1 B2	C4 C19 C20 C21 C22	D5 D8
Problem and/or exercise solving	Face-to-face and on-line modality: short questions on the contents of the matter	40		B1 B2	C20 C21	D5

Other comments on the Evaluation

To be able to surpass the subject, the mentored work will be of compulsory realisation by part of all the students.

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, 2ª Edición, Auerbach Publications, 2005 Effy Oz, Administración de los sistemas de información, 5ª Edición, Cengage Learning Editores, S.A., 2008

Vicenç Fernández Alarcón, **Desarrollo de sistemas de información: Una metodología basada en el modelado**, 1º Edición, Edicions de la Universitat Politècnica de Cataluny, 2006

James D. McKeen; Heather A. Smith, **IT Strategy: Issues and Practices**, 3º Edición, Pearson Education Limited, 2015 Tomás Guillén Gorbe, **Las TIC en la estrategia empresarial**, 1º Edición, Anetcom, 2007

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

Kenneth C. Laudon; Jane P. Laudon, **Sistemas de información gerencial**, 14ª Edición, PEARSON EDUCACIÓN, México,, 2016

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

Recommendations

Subjects that continue the syllabus

Standards for ICT Project Management/P02M163V01116

Management of an ICT Projects/P02M163V01115