Universida_{de}Vigo

Subject Guide 2017 / 2018

IDENTIFY					
	outerised services				
Subject	New computerised				
	services				
Code	V05G300V01945				
Study	Degree in				
programme	e Telecommunications				
	Technologies				
	Engineering				
Descriptors	ECTS Credits	Choose	Year	Quadmester	
	6	Optional	4th	1st	
Teaching	Spanish				
language					
Departmen	t				
Coordinato	r Álvarez Sabucedo, Luis Modesto				
Lecturers	Álvarez Sabucedo, Luis Modesto				
	Santos Gago, Juan Manuel				
E-mail	lsabucedo@det.uvigo.es				
Web	http://faitic.uvigo.es				
General	The global aim of the course is to provide the stude	nts with a global out	look of the new	technologies in the area	
description	· · · · · · · · · · · · · · · · · · ·				
	evolution in the most active fields of the new technologies.				
	The subject will be taught in Spanish and the conte		in English.		

Competencies

Code

- B4 CG4: The ability to solve problems with initiative, to make creative decisions and to communicate and transmit knowledge and skills, understanding the ethical and professional responsibility of the Technical Telecommunication Engineer activity.
- B9 CG9: The ability to work in multidisciplinary groups in a Multilanguage environment and to communicate, in writing and orally, knowledge, procedures, results and ideas related with Telecommunications and Electronics.
- C89 (CE89/OP32) The ability to design and construct new computer services.
- D4 CT4 Encourage cooperative work, and skills like communication, organization, planning and acceptance of responsibility in a multilingual and multidisciplinary work environment, which promotes education for equality, peace and respect for fundamental rights.

Learning outcomes				
Expected results from this subject		Training and Learning Results		
To identify new applications of telematic services.	B4	C89	D4	
Knowledge of the main tools and environments for the development of new telematics services.	B4			
	В9			
To acquire skills to develop new telematic services.		C89		

Topic	
Introduction	Supporting technologies
mer ou decion	Representation models
	General concepts for eTechnologies
	(The contents and slides of the subject will be in English but lectures wil
	be delivered in Spanish)
Services in the Web	Concepts about applied security
	Services for authentication in the net
	Services for payment
	Searchers
	Recommenders

Introduction to the semantic web.	Metadata, RDF. Metadata examples: LOM and Dublin Core. Use of the lightweight semantics in the Web. Introduction to SPARQL.
*eServizos	eLearning eGovernment eCommerce Modelities of Roymont in the web. Countessing
Name and discourse	Modalities of Payment in the web. Cryptocoins.
New paradigms	IoT
	Cloud computing
	Others

Planning			
	Class hours	Hours outside the classroom	Total hours
Master Session	16	40	56
Laboratory practises	14	28	42
Case studies / analysis of situations	5	25	30
Introductory activities	3	6	9
Jobs and projects	1	3	4
Jobs and projects	1	4	5
Long answer tests and development	2	2	4

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

scription eoretical contents and their practical application will be presented during the lectures. Student
eoretical contents and their practical application will be presented during the lectures. Student
e expected to play an active role during lectures. This methodology will impact in all the mpetences addressed in the subject.
ring practical sessions, it will be developed a semantic project with the support of adhoc
ftware tools.
is methodology will impact in all the competences addressed in the subject.
e cases will presented to the students. Thus, they will be able to analyze and to study them in pth in order to prepeare their academic projects.
is methodology will impact in all the competences addressed in the subject.
ogram of the subject will be presented along with the methodologies used, the classroom, actical contents, final project, final and continuous evaluation criteria, and, in general, all aspects the subject. is methodology will impact in all the competences addressed in the subject.
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Description		
During these sessions, any questions that may arise will be addresseed. Also during the tutoring sesions, questions that may arise will be resolved.		
In the practical sessions, a closer attention will be paid to the tasks assigned to the students. Also, any questions that may arise will be addressed. Also during the tutoring sesions, questions that may arise will be resolved.		
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Assessment	
Description	Qualification Training and
	Learning Results

Jobs and projects	It will consist of the presentation of two practical-projects using the concepts presented in the subject. It will take place during the development of the course. Marks of each work will be the same for all the members in the group.	25	B4 B9	C89
Jobs and projects	It will consist of the presentation of a project that carries out a telematic-based solution. It will take place at the end of the course. Marks of each work will be the same for all the members in the group.	25	B4 B9	C89
Long answer tests and development	It will involve all the contents of the course.	50	B4 B9	C89
	It will take place at the end of the course		_	

Other comments on the Evaluation

1. Continuous assessment

The subject will be taught in Spanish and the contents will be available in English.

The course can be passed with full marks from continuous assessment, with no need to sit the final exam.

Students who sit any of the assessment tests may not be listed as "Not Present".

The weighting and content of each continuous assessment test are as follows:

Assessment 1 (50%):

- · All contents presented along the course.
- · It will take place at the end of the course.

Assessment 2 (25%):

· It will consist of the presentation of a practical-projects (specified in due course).

Assessment 3 (25%):

- · It will consist of a presentation of a holistic project involving telematic based services
- · At the end of the course.

It is mandatory to pass each part of the continuous assessment (that is, the minimum score of each part must be 5 out of 10). In case of not passing any part of the continuous evaluation, the remaining grades will be adjusted by a factor of 0.5.

All students presenting a project will get the same marks.

The course may be passed only with continuous assessment.

2. Final exam

- There is a final exam at the end of the semester and another at the end of the course. All content presented along the course is included in this exam.
- Students sitting this final exam will be asked to submit in advance some works to be done according to specific instructions on each call. These works must be original and will involve task related to assessments 2 and 3. Should the work not be original, the student will be banned from the subject. The pass mark for this test is 5 out of 10. It is mandatory to pass the project presentation also.

Sources of information

Basic Bibliography

Professors of the subject, **Slides for classes**, http://faitic.uvigo.es,

Complementary Bibliography

R. Baeza-Yates y B. Ribeiro-Neto., **R. Baeza-Yates y B. Ribeiro-Neto. "Modern Information Retrieval".**, R. Baeza-Yates y B. Ribeiro-Neto. "Modern Information Retrieval". Addison Wesley.,

Gómez-Pérez, A.; Fernández-López, M.; Corcho, O, Ontological Engineering, Springer-Verlag,

Arasu, A., Cho, J., García-Molina, H., Paepcke, A., y Raghavan, S., **Searching the web**, ACM Transactions on Internet Technology, Vol. 1, N,

S. Chakrabarti, B. Dom, D. Gibson, I. Kleinberg, P. Raghayan, and S. Rajagopalan, Automatic resource compilation by analyzing hyperlink structure and associated text., In Proceedings of the 7th World-wide web conference,

S. Brin y L. Page, The anatomy of a large-scale hypertextual Web search engine., 7th International World Wide Web Conference, Brisb,

Lassila, O., y Swick, R.R., Resource Description Framework (RDF) Model and Syntax Specification, World Wide Web Consortium Recommendation. Accesib,

Deborah L. McGuinness, Ontologies Come of Age, http://www.ksl.stanford.edu/people/dlm/papers/onto,

Grigoris Antoniou and Frank van Harmelen, Web Ontology Language: OWL,

http://www.cs.vu.nl/~frankh/postscript/OntoHandboo,

Resource Description Framework (RDF) Model and Syntax Specification, http://w3c.org/RDF,

DCMI Home, http://dublincore.org, IEEE Learning Technology Standards Committee (LTSC), http://ltsc.ieee.org/wg12. Standard accesible en,

W3C Semantic Web Activity, http://www.w3.org/2001/sw/,

Recommendations