ANX-PR/CL/001-01

LEARNING GUIDE

SUBJECT

593000416 - Telematic Services For The Information Society

DEGREE PROGRAMME

59AF - Master Univ. Ing. Sistemas Y Servicios Para La Sociedad De La Informacion

ACADEMIC YEAR & SEMESTER

2019/20 - Semester 2

Index

Learning guide

1. Description

1.1. Subject details

Name of the subject	593000416 - Telematic Services For The Information Society
No of credits	5 ECTS
Type	Optional
Academic year ot the programme	First year
Semester of tuition	Semester 2
Tuition period	February-June
Tuition languages	English
Degree programme	59AF - Master Univ. Ing. Sistemas Y Servicios Para La Sociedad De La Informacion
Centre	59 - Escuela Tecnica Superior de Ingenieria y Sistemas de Telecomunicacion
Academic year	2019-20

2. Faculty

2.1. Faculty members with subject teaching role

Name and surname	Office/Room	Email	Tutoring hours *
Ivan Pau De La Cruz (Subject coordinator)	A4404	ivan.pau@upm.es	Sin horario.
Maria Luisa Martin Ruiz	A4406	marialuisa.martinr@upm.es	Sin horario.

* The tutoring schedule is indicative and subject to possible changes. Please check tutoring times with the faculty member in charge.

3. Prior knowledge recommended to take the subject

3.1. Recommended (passed) subjects

The subject - recommended (passed), are not defined.

3.2. Other recommended learning outcomes

- Knowledge similar to Bachelor of Engineering in Information and Communication Technologies

- Basic knowledge on telematic services

4. Skills and learning outcomes *

4.1. Skills to be learned

CB10 - To have the learning abilities to continue studying in a mostly self-guided or autonomous manner

CB6 - To have knowledge that provides the basis or the opportunity of being original to develop and/or to apply ideas, usually in a research context

CB7 - To be capable of applying the students' acquired knowledge, as well as their problem solving abilities, to new or not well-known environments in broader (or multidisciplinary) contexts that are in the framework of their expertise area

CE.1 - To be capable of analyzing, interpreting and applying standards related to the ICT

CE.7 - To be capable of proposing, organizing and executing research works in the framework of the Information Society engineering

CESE.4 - To be capable of specifying and designing advanced telematic services.

4.2. Learning outcomes

RA11 - Ability to analyze and design systems and services for the Information Society

RA10 - Improvement of the skills for autonomous learning

RA9 - Improvement of the public presentation skills of a research work and defense of conclusions

* The Learning Guides should reflect the Skills and Learning Outcomes in the same way as indicated in the Degree Verification Memory. For this reason, they have not been translated into English and appear in Spanish.

5. Brief description of the subject and syllabus

5.1. Brief description of the subject

This subject addresses the development of person-centered services for the Information Society. The students have the chance to work in different areas:commerce, government and citizen participation, health, education, etc.

The subject follows a project-based methodology that implies an active assistance to face-to-face classes, self-study, bibliographic searches and the realization and presentation of two small projects defining, each one, a specific service. The most of the in-class sessions will be team meetings simulating a real project development during the analysis and design stage.

The proposed syllabus is only indicative of the contents that could be covered in the projects performed by the students. The specific service to be developed in the project will be decided, together with the teachers, in specific meetings held during the class.

5.2. Syllabus

1. Introduction to the Information society and services
   1.1. Information society, services and telematic applications
   1.2. Paradigms of interaction with digital information
2. Service conceptualization
   2.1. Motivation, objectives and requirements
   2.2. Human factors and user experience
   2.3. Technologies
3. E-commerce services
   3.1. Current Trends
   3.2. Infrastructures
4. E-Government Services
   4.1. Electronic administration
   4.2. Citizen participation
5. E-Health
   5.1. Analysis of e-health services, telemedicine and application scenarios
   5.2. Design of accessible systems for e-health and telemedicine

6. Schedule

6.1. Subject schedule*

Week	Face-to-face classroom activities	Face-to-face laboratory activities	Other face-to-face activities	Assessment activities
1	**Presentation of subject and projects** Duration: 03:00			
2	**Project 1 Meeting** Duration: 03:00			
3	**Project 1 Meeting** Duration: 03:00			
4	**Project 1 Meeting** Duration: 03:00			
5	**Project 1 Meeting** Duration: 03:00			
6	**Project 1 Meeting** Duration: 03:00			
7				**Presentation and submission of Project 1** Continuous assessment Duration: 03:00
8	**Project 2 Meeting** Duration: 03:00			
9	**Project 2 Meeting** Duration: 03:00			
10	**Project 2 Meeting** Duration: 03:00			
11	**Project 2 Meeting** Duration: 03:00			
12	**Project 2 Meeting** Duration: 03:00			
13	**Project 2 Meeting** Duration: 03:00			

14	**Project 2 Meeting** Duration: 03:00			**Presentation and submission of Project 2** Continuous assessment Duration: 03:00
15				
16				
17				**Project submission and presentation** Final examination Duration: 03:00

The independent study hours are training activities during which students should spend time on individual study or individual assignments.

Depending on the programme study plan, total values will be calculated according to the ECTS credit unit as 26/27 hours of student face-to-face contact and independent study time.

* The subject schedule is based on a previous theorical planning of the subject plan and might go to through experience some unexpected changes along throughout the academic year.

7. Activities and assessment criteria

7.1. Assessment activities

7.1.1. Continuous assessment

Week	Description	Modality	Type	Duration	Weight	Minimum grade	Evaluated skills
7	Presentation and submission of Project 1		Face-to-face	03:00	50%	5 / 10	CB6 CB7 CB10 CE.7 CE.1 CESE.4
14	Presentation and submission of Project 2		Face-to-face	03:00	50%	5 / 10	CB6 CB7 CB10 CE.7 CE.1 CESE.4

7.1.2. Final examination

Week	Description	Modality	Type	Duration	Weight	Minimum grade	Evaluated skills
17	Project submission and presentation		Face-to-face	03:00	100%	5 / 10	CB6 CB7 CB10 CE.7 CE.1 CESE.4

7.1.3. Referred (re-sit) examination

Description	Modality	Type	Duration	Weight	Minimum grade	Evaluated skills

Project submission and presentation		Face-to-face	03:00	100%	5 / 10	CB6 CB7 CB10 CE.7 CE.1 CESE.4

7.2. Assessment criteria

The assessment is based on two projects developed by the students during the course. Each project includes both a written report and a public presentation. The projects can be carried out in an individual or group setting. The topics of the works will be agreed with the teachers during the classes. The report should be 25 to 40 pages in length (Arial 12, simple space) and the presentation time shall not exceed 20 minutes.

Most of the in-class activities will be team meetings where the diferent aspects of the project will be discussed. The teams are composed by all the members of the group and at least one teacher in the role of supervisor. Each activity will cover one specific stage of the project development.

Both, final and extra session evaluation, also includes a project development. The deatils about the topic and requirements of the report will be published during the course.

8. Teaching resources

8.1. Teaching resources for the subject

Name	Type	Notes
Standards	Bibliography	European Telecommunications Standards Institute. "Human Factors, User Experience Guidelines. Telecare Services (eHealth)". ETSI EG 202 487, 2008. Narasmhan, N. e-Accessibility Policy Handbook for Persons with Disabilities. ITU, G3ict, 2010.
Moodle space	Web resource	The required documentation will be published in the Moodle space of the subject.