



INTERNATIONAL
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PR/CL/001



E.T.S. de Ingeniería y Sistemas
de Telecomunicación

ANX-PR/CL/001-01

LEARNING GUIDE

SUBJECT

593000405 - Itc And The Information Society

DEGREE PROGRAMME

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

ACADEMIC YEAR & SEMESTER

2019/20 - Semester 1

Index

Learning guide

1. Description.....	1
2. Faculty.....	1
3. Skills and learning outcomes	2
4. Brief description of the subject and syllabus.....	3
5. Schedule.....	5
6. Activities and assessment criteria.....	8
7. Teaching resources.....	10
8. Other information.....	11

1. Description

1.1. Subject details

Name of the subject	593000405 - Itc And The Information Society
No of credits	3 ECTS
Type	Compulsory
Academic year of the programme	First year
Semester of tuition	Semester 1
Tuition period	September-January
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 *
Antonio Perez Yuste (Subject coordinator)	8304	antonio.perez@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. Skills and learning outcomes *

3.1. Skills to be learned

CEP.3 - Ability to analyze the services of the Information Society and technological requirements for implementation considering design concepts for all.

CEP.4 - Ability to analyze the information society and the changes it entails

CEP.9 - Capacity for analysis and data processing

CGEN.2 - Possessing learning skills to enable them to continue studying in a way that will be largely self-directed or autonomous

CGEN.5 - Capacity for the development, strategic planning, direction, coordination and technical and financial management of projects in the field of engineering to the following Information Society ethical, and environmental quality

CGEN.9 - Ability to research, development and innovation in the field of engineering for the Information Society

3.2. Learning outcomes

RA49 - To communicate the conclusions, together with the knowledge and reasons behind them, to both specialized and non-specialized audiences, in a clear and unambiguous manner.

RA61 - Assess the influence of different policies in the introduction and development of the Information Society in a country or in a community

RA59 - Analyze and evaluate the specific and differential features of the Information Society

RA60 - Stand out the suitable Information and Communication Technologies enabling the social, knowledge, and leisure activities and measure the corresponding socio-economic influence

* 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.

4. Brief description of the subject and syllabus

4.1. Brief description of the subject

This course is intended for graduate students in engineering who are interested in knowing the most remarkable characteristics of the Information Society and, in addition, who wish to get acquainted with Information and Communication Technologies (ICTs) and how they are changing our present society. Along this course, next topics will be presented and studied:

- Historical evolution of ICTs.
- Different faces from which the Information Society can be studied.
- The meaning of the Information Society and its implications for modern societies.
- Economic, social and political changes happened in modern societies from the introduction of ICTs.
- Recognizable paradigms of the Information Society.
- Risks of the Information Society and antidotes to solve them.
- Conflicts involved in the Information Society and trade-offs related.
- Enabling Technologies for the Information Society.

This course will be entirely taught and assessed on-line by using such a popular virtual learning environment as Moodle. Every student must be registered to log-in the platform and from this point forward to follow the course.

4.2. Syllabus

1. Towards getting to know the Information Society
2. Information Society - What is it exactly?
3. Technology and Society in the Information Age
4. Social Networks and the Network Society
5. Use of the Space in the Information Society Age
6. Innovation and Competitiveness in the Information Society
7. Introduction to the Legal Regulation of Information Society
8. The Information Estrategy of the European Union
9. e-Government in the European Union

10. e-Inclusion in the Information Society
11. Case of Study on Information Society
12. Exercise on Information Society

5. Schedule

5.1. Subject schedule*

Week	Face-to-face classroom activities	Face-to-face laboratory activities	Other face-to-face activities	Assessment activities
1	Course introduction and description Duration: 03:00		Information reading and comprehension Duration: 02:00	
2			Towards getting to know the Information Society Duration: 02:00 Study and comprehension Duration: 02:00	Self-assessment Continuous assessment Duration: 01:00
3			Information Society - What is it exactly? Duration: 02:00 Study and comprehension Duration: 02:00	Self-assessment Continuous assessment Duration: 01:00
4			Technology and Society in the Information Age Duration: 02:00 Study and comprehension Duration: 02:00	Self-assessment Continuous assessment Duration: 01:00
5			Units 1-3 Review Duration: 03:00 Assessment Review Duration: 02:00	
6			Social Networks and the Network Society Duration: 02:00 Study and comprehension Duration: 02:00	Self-assessment Continuous assessment Duration: 01:00
7			Use of the Space in the Information Society Age Duration: 02:00 Study and comprehension Duration: 02:00	Self-assessment Continuous assessment Duration: 01:00

8			<p>Innovation and Competitiveness in the Information Society Duration: 02:00</p> <p>Study and comprehension Duration: 02:00</p>	<p>Self-assessment Continuous assessment Duration: 01:00</p>
9			<p>Units 4-6 Review Duration: 03:00</p> <p>Assessment Review Duration: 02:00</p>	
10			<p>Introduction to the Legal Regulation of Information Society Duration: 02:00</p> <p>Study and comprehension Duration: 02:00</p>	<p>Self-assessment Continuous assessment Duration: 01:00</p>
11			<p>The Information Strategy of the European Union Duration: 02:00</p> <p>Study and comprehension Duration: 02:00</p>	<p>Self-assessment Continuous assessment Duration: 01:00</p>
12			<p>e-Government in the European Union Duration: 02:00</p> <p>Study and comprehension Duration: 02:00</p>	<p>Self-assessment Continuous assessment Duration: 01:00</p>
13			<p>e-Inclusion in the Information Society Duration: 02:00</p> <p>Study and comprehension Duration: 02:00</p>	<p>Self-assessment Continuous assessment Duration: 01:00</p>
14			<p>Units 7-10 Review Duration: 03:00</p> <p>Assessment Review Duration: 02:00</p>	
15			<p>Case of Study on Information Society Duration: 02:00</p>	<p>Case Study on Information Society Continuous assessment Duration: 03:00</p>

16			Exercise on Information Society Duration: 02:00	Exercise on Information Society Continuous assessment Duration: 03:00
17				Final exam for students with not an evaluation yet Final examination Duration: 01:00

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 theoretical planning of the subject plan and might go through experience some unexpected changes along throughout the academic year.

6. Activities and assessment criteria

6.1. Assessment activities

6.1.1. Continuous assessment

Week	Description	Modality	Type	Duration	Weight	Minimum grade	Evaluated skills
2	Self-assessment		No Presential	01:00	6%	5 / 10	CGEN.2 CEP.4 CEP.3
3	Self-assessment		No Presential	01:00	6%	5 / 10	CEP.4 CEP.3 CGEN.2
4	Self-assessment		No Presential	01:00	6%	5 / 10	CEP.4 CEP.3 CGEN.2
6	Self-assessment		No Presential	01:00	6%	5 / 10	CEP.3 CGEN.5 CGEN.2
7	Self-assessment		No Presential	01:00	6%	5 / 10	CEP.3 CGEN.5 CGEN.2
8	Self-assessment		No Presential	01:00	6%	5 / 10	CEP.3 CGEN.5 CGEN.2
10	Self-assessment		No Presential	01:00	6%	5 / 10	CEP.9 CEP.3 CGEN.5
11	Self-assessment		No Presential	01:00	6%	5 / 10	CEP.9 CEP.3 CGEN.5
12	Self-assessment		No Presential	01:00	6%	5 / 10	CEP.9 CEP.3 CGEN.5
13	Self-assessment		No Presential	01:00	6%	5 / 10	CEP.9 CEP.3 CGEN.5
15	Case Study on Information Society		No Presential	03:00	10%	5 / 10	CEP.4 CGEN.9 CEP.9 CGEN.2

16	Exercise on Information Society		No Presential	03:00	30%	5 / 10	CEP.4 CGEN.9 CEP.9 CGEN.2
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6.1.2. Final examination

Week	Description	Modality	Type	Duration	Weight	Minimum grade	Evaluated skills
17	Final exam for students with not an evaluation yet		Face-to-face	01:00	100%	5 / 10	CEP.4 CGEN.9 CEP.9 CEP.3 CGEN.5 CGEN.2

6.1.3. Referred (re-sit) examination

No se ha definido la evaluación extraordinaria.

6.2. Assessment criteria

- In order to get the final grade, all the assessed activities will be considered. Anyone not done will be qualified as a zero mark.
- The Case of Study and the Exercise will be assessed in according to the objectives given in the corresponding declarations.
- All lecture assessments will be given on-line by means of questionnaires and by using the Moodle platform.

Special note: Those students selecting the option of just a final exam, or those still pending of an evaluation, could have a final exam consisting of an on-line questionnaire about topics included in all the ten lectures of the course. This final exam will take place on site, at room and time duly designated by the responsible of the Master Degree.

7. Teaching resources

7.1. Teaching resources for the subject

Name	Type	Notes
The Information Society as Post-Industrial Society, Yoneji Masuda, World Future Society, 1981	Bibliography	
Theories of the Information Society, Frank Webster, Routledge, 1995	Bibliography	
Being Digital, Nicholas Negroponte, Ed. Knopf, New York, 1995	Bibliography	
The Information Age: Economy, Society and Culture, Vol. I (1996), Vol. II (1997) and Vol. III (1998), Manuel Castells	Bibliography	
The Information Age, Emmanuel C. Lallana, e-ASEAN Task Force, UNDP-APDIP, 2003	Bibliography	
The Worldwide History of Telecommunications, Anton A. Huurdeman, Ed. John Wiley & Sons, Hoboken, New Jersey, 2003	Bibliography	
Code 2.0, Lawrence Lessig, Basic Books, 2006	Bibliography	
Numerati, Stephen Baker, 2008	Bibliography	
Information Society: From Theory to Political Practice, Robert Pinter, Gondolat Kiadó, 2008	Bibliography	
Guide to Measuring the Information Society, Ed. OECD, Paris, 2011	Bibliography	

Measuring the Information Society: The ICT Development Index, Ed. ITU, Geneva, 2014	Bibliography	
Social Computing and Virtual Communities, Panayiotis Zaphiris and Chee Siang Ang, CRC Press, 2010	Bibliography	
Tech Talk, IEEE Spectrum: http://spectrum.ieee.org/blog/tech-talk	Web resource	
Bits, New York Times: http://www.nytimes.com/column/bits	Web resource	
CNMC Blog: https://blog.cnmc.es/	Web resource	
The IETF Journal: http://www.ietfjournal.org/	Web resource	

8. Other information

8.1. Other information about the subject

- Moodle is the Learning Management Platform to be used in this course
- To log-in Moodle is strictly required to have a UPM e-mail account: @alumnos.upm.es
- Absolutely all the information and materials about this course can be found in this course Moodle Area

IMPORTANT NOTE: The Master's program to which this subject belongs has entered its termination phase. For this reason, the only valid section of this Study Guide is "Activities and assessment criteria / Actividades y Criterios de Evaluación", being the rest equal to the last time that the subject was taught.