



INTERNATIONAL  
CAMPUS OF  
EXCELLENCE

COORDINATION PROCESS OF  
LEARNING ACTIVITIES  
PR/CL/001



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

# ANX-PR/CL/001-01

## LEARNING GUIDE

### SUBJECT

**593000407 - Advanced Research Seminars I**

### 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. Prior knowledge recommended to take the subject.....	2
4. Skills and learning outcomes .....	3
5. Brief description of the subject and syllabus.....	3
6. Schedule.....	5
7. Activities and assessment criteria.....	8
8. Teaching resources.....	11
9. Other information.....	11

## 1. Description

---

### 1.1. Subject details

<b>Name of the subject</b>	593000407 - Advanced Research Seminars I
<b>No of credits</b>	5 ECTS
<b>Type</b>	Optional
<b>Academic year of the programme</b>	First year
<b>Semester of tuition</b>	Semester 1
<b>Tuition period</b>	September-January
<b>Tuition languages</b>	English
<b>Degree programme</b>	59AF - Master Univ. Ing. Sistemas Y Servicios Para La Sociedad De La Informacion
<b>Centre</b>	59 - Escuela Tecnica Superior de Ingenieria y Sistemas de Telecomunicacion
<b>Academic year</b>	2019-20

## 2. Faculty

---

### 2.1. Faculty members with subject teaching role

<b>Name and surname</b>	<b>Office/Room</b>	<b>Email</b>	<b>Tutoring hours *</b>
Cesar Benavente Peces (Subject coordinator)	7007	cesar.benavente@upm.es	M - 12:30 - 13:30 Tu - 12:30 - 13:30 W - 12:30 - 13:30 Th - 12:30 - 13:30 F - 12:30 - 13:30

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

## 2.2. Research assistants

Name and surname	Email	Faculty member in charge
Tena Ramos, David	david.tena@upm.es	Benavente Peces, Cesar

## 2.3. External faculty

Name and surname	Email	Institution
Volker Kühn	volker.kuehn@uni-rostock.de	Universität Rostock
Henryk Richter	henryk.richter@uni-rostock.de	Universität Rostock
Steffen Lochmann	Steffen.Lochmann@hs-wismar.de	Hochschule Wismar
Andreas Ahrens	andreas.ahrens@hs-wismar.de	Hochschule Wismar

## 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

- Degree in Electrical and Electronic Engineering, Computer Science Engineering o Information and Communications Technologies Engineering

## 4. Skills and learning outcomes \*

---

### 4.1. Skills to be learned

CE.2 - Capacidad de analizar los servicios de la Sociedad de la Información y los requisitos tecnológicos para su implementación considerando conceptos de diseño para todos.

CE.7 - Capacidad de proponer, organizar y ejecutar trabajos de investigación en el ámbito de la ingeniería para la Sociedad de la Información.

### 4.2. Learning outcomes

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

RA10 - Improvement of the skills for autonomous learning

\* 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

The subject "Advanced Research Seminars II" aims at teach the student the state of the art in certain specific aspects of the specialization of the studies that he is undertaking as well as obtaining transversal competences related to professional practice and scientific activity.

Consequently, the organization of the subject is specific and in accordance with its objectives.

It is organized in a number of specific thematic seminars, aimed at intensifying the training of the student, and more specifically to improve the competences and learning outcomes specific to the Master.

Each seminar has a teaching load of between 1 and 2 ECTS, and are taught by researchers specialized professors and reseachers in disciplines related to the objectives of the Master program.

In addition, most of the participating researchers are professors come from foreign institutions, in order to be able

to offer the student the point of view and activity of other centers and research groups, thus enriching the student's education.

The seminars take place in workshops agreed with the investigators based on their availability, so a full closed schedule and planning can't be given.

The teaching schedule is compatible with that of the other subjects.

## 5.2. Syllabus

1. Seminar 1
2. Seminar 2
3. Seminar 3
4. Seminar 4
5. Seminar 5

## 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	Development of seminar 1 Duration: 10:00			<p><b>Bibliography and references search and review</b></p> <p>Continuous assessment and final examination Duration: 01:00</p> <p><b>Individual work</b></p> <p>Continuous assessment and final examination Duration: 15:00</p> <p><b>Exposition and demonstration of work</b></p> <p>Continuous assessment and final examination Duration: 01:00</p>
2	Development of seminar 1 Duration: 10:00			<p><b>Bibliography and references search and review</b></p> <p>Continuous assessment and final examination Duration: 01:00</p> <p><b>Exposition and demonstration of work</b></p> <p>Continuous assessment and final examination Duration: 01:00</p> <p><b>Individual work</b></p> <p>Continuous assessment and final examination Duration: 15:00</p>
3	Development of seminar 1 Duration: 10:00			<p><b>Bibliography and references search and review</b></p> <p>Continuous assessment and final examination Duration: 01:00</p> <p><b>Exposition and demonstration of work</b></p> <p>Continuous assessment and final examination Duration: 01:00</p> <p><b>Individual work</b></p>

				Continuous assessment and final examination Duration: 15:00
4	Development of seminar 1 Duration: 10:00			<b>Exposition and demonstration of work</b>  Continuous assessment and final examination Duration: 01:00  <b>Bibliography and references search and review</b>  Continuous assessment and final examination Duration: 01:00  <b>Individual work</b>  Continuous assessment and final examination Duration: 15:00
5	Development of seminar 1 Duration: 10:00			<b>Exposition and demonstration of work</b>  Continuous assessment and final examination Duration: 01:00  <b>Bibliography and references search and review</b>  Continuous assessment and final examination Duration: 01:00  <b>Individual work</b>  Continuous assessment and final examination Duration: 15:00
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				

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.

## 7. Activities and assessment criteria

### 7.1. Assessment activities

#### 7.1.1. Continuous assessment

Week	Description	Modality	Type	Duration	Weight	Minimum grade	Evaluated skills
1	Bibliography and references search and review		No Presential	01:00	2%	5 / 10	CE.2 CE.7
1	Individual work		No Presential	15:00	16%	5 / 10	CE.2 CE.7
1	Exposition and demonstration of work		Face-to-face	01:00	2%	5 / 10	CE.2 CE.7
2	Bibliography and references search and review		No Presential	01:00	2%	5 / 10	CE.2 CE.7
2	Exposition and demonstration of work		Face-to-face	01:00	2%	5 / 10	CE.2 CE.7
2	Individual work		No Presential	15:00	16%	5 / 10	CE.2 CE.7
3	Exposition and demonstration of work		Face-to-face	01:00	2%	5 / 10	CE.2 CE.7
3	Bibliography and references search and review		No Presential	01:00	2%	5 / 10	CE.2 CE.7
3	Individual work		No Presential	15:00	16%	5 / 10	CE.2 CE.7
4	Exposition and demonstration of work		Face-to-face	01:00	2%	5 / 10	CE.2 CE.7
4	Bibliography and references search and review		No Presential	01:00	2%	5 / 10	CE.2 CE.7
4	Individual work		No Presential	15:00	16%	5 / 10	CE.2 CE.7
5	Exposition and demonstration of work		Face-to-face	01:00	2%	5 / 10	CE.2 CE.7
5	Bibliography and references search and review		No Presential	01:00	2%	5 / 10	CE.2 CE.7
5	Individual work		No Presential	15:00	16%	5 / 10	CE.2 CE.7

#### 7.1.2. Final examination

Week	Description	Modality	Type	Duration	Weight	Minimum grade	Evaluated skills
1	Bibliography and references search and review		No Presential	01:00	2%	5 / 10	CE.2 CE.7
1	Individual work		No Presential	15:00	16%	5 / 10	CE.2 CE.7
1	Exposition and demonstration of work		Face-to-face	01:00	2%	5 / 10	CE.2 CE.7
2	Bibliography and references search and review		No Presential	01:00	2%	5 / 10	CE.2 CE.7
2	Exposition and demonstration of work		Face-to-face	01:00	2%	5 / 10	CE.2 CE.7
2	Individual work		No Presential	15:00	16%	5 / 10	CE.2 CE.7
3	Exposition and demonstration of work		Face-to-face	01:00	2%	5 / 10	CE.2 CE.7
3	Bibliography and references search and review		No Presential	01:00	2%	5 / 10	CE.2 CE.7
3	Individual work		No Presential	15:00	16%	5 / 10	CE.2 CE.7
4	Exposition and demonstration of work		Face-to-face	01:00	2%	5 / 10	CE.2 CE.7
4	Bibliography and references search and review		No Presential	01:00	2%	5 / 10	CE.2 CE.7
4	Individual work		No Presential	15:00	16%	5 / 10	CE.2 CE.7
5	Exposition and demonstration of work		Face-to-face	01:00	2%	5 / 10	CE.2 CE.7
5	Bibliography and references search and review		No Presential	01:00	2%	5 / 10	CE.2 CE.7
5	Individual work		No Presential	15:00	16%	5 / 10	CE.2 CE.7

### 7.1.3. Referred (re-sit) examination

No se ha definido la evaluación extraordinaria.

## 7.2. Assessment criteria

### General rules.

1. **Extension of the task. The task (theoretical description).** In any case, must have a minimum of 20 A4 pages written with Arial 10 points and double spaced, and an additional cover page with the title of the work and personal data of the student, and additional pages with used references.
2. **Practical developments: complementing the theoretical work with practical demonstrations will have a greater value, due to the student's interest in learning and the difficulty they may entail.**
3. **The task is individual in character and must be related to the subjects related to the seminars.**
4. **Evaluable aspects. The task must be original and if possible with a high practicality.**
5. **References should be appropriate in relation to the task area. Relevant international journals, transactions and electronic publications must be used, which can be accessed through the UPM's resources.**
6. **The evaluable aspects are those that are described in the following table with the corresponding weight.**

Assessed aspects	%
Originality	30
Referencies	10
Accuracy	10
Clarity	10
Practical demonstrations	40

## 8. Teaching resources

---

### 8.1. Teaching resources for the subject

Name	Type	Notes
Classroom	Equipment	
White/black board	Equipment	
Overhead projector	Equipment	
Slides	Bibliography	
b-learning platform	Web resource	
Library	Bibliography	
Access to electronic bibliographic resources	Bibliography	

## 9. Other information

---

### 9.1. Other information about the subject

The seminars are developed in **English**.

Both in the Moodle platform and the faculty website the information and schedule of the new activities will be periodically updated.