



POLITÉCNICA

INTERNATIONAL  
CAMPUS OF  
EXCELLENCE

COORDINATION PROCESS OF  
LEARNING ACTIVITIES  
PR/CL/001



E.T.S. de Ingenieros  
Industriales

# ANX-PR/CL/001-01

## LEARNING GUIDE

### SUBJECT

**53001536 - Seminar 1**

### DEGREE PROGRAMME

05BG - Master Universitario En Electronica Industrial

### ACADEMIC YEAR & SEMESTER

2021/22 - Semester 2

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## 1. Description

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### 1.1. Subject details

<b>Name of the subject</b>	53001536 - Seminar 1
<b>No of credits</b>	1.5 ECTS
<b>Type</b>	Compulsory
<b>Academic year of the programme</b>	First year
<b>Semester of tuition</b>	Semester 2
<b>Tuition period</b>	February-June
<b>Tuition languages</b>	English
<b>Degree programme</b>	05BG - Master Universitario en Electronica Industrial
<b>Centre</b>	05 - Escuela Tecnica Superior De Ingenieros Industriales
<b>Academic year</b>	2021-22

## 2. Faculty

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### 2.1. Faculty members with subject teaching role

<b>Name and surname</b>	<b>Office/Room</b>	<b>Email</b>	<b>Tutoring hours *</b>
Pedro Alou Cervera (Subject coordinator)		pedro.alou@upm.es	--

\* 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

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### 3.1. Recommended (passed) subjects

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

### 3.2. Other recommended learning outcomes

- Basic knowledge of Analog Electronics
- Basic knowledge of Power Electronics
- Basic knowledge of Digital Electronics and Embedded Systems

## 4. Skills and learning outcomes \*

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### 4.1. Skills to be learned

CB06 - Poseer y comprender conocimientos que aporten una base u oportunidad de ser originales en el desarrollo y/o aplicación de ideas, a menudo en un contexto de investigación

CB07 - Que los estudiantes sepan aplicar los conocimientos adquiridos y su capacidad de resolución de problemas en entornos nuevos o poco conocidos dentro de contextos más amplios (o multidisciplinares) relacionados con su área de estudio

CG01 - Haber adquirido conocimientos avanzados y demostrado, en un contexto de investigación científica y tecnológica o altamente especializado, una comprensión detallada y fundamentada de los aspectos teóricos y prácticos y de la metodología de trabajo en uno o más campos de estudio

CG06 - Haber desarrollado la autonomía suficiente para participar en proyectos de investigación y colaboraciones científicas o tecnológicas dentro de su ámbito temático, en contextos interdisciplinares y, en su caso, con una alta componente de transferencia del conocimiento.

CT01 - Uso de la lengua inglesa

CT07 - Trabajo en contextos internacionales

## 4.2. Learning outcomes

RA109 - Diferenciar entre las posibles técnicas, aplicaciones y mecanismos de implementación en el campo del procesado digital de la señal

RA1 - Comprensión de los principios de operación de la conversión de la energía y de las principales tecnologías de semiconductores

RA11 - Adquirir conocimientos de aspectos aplicados en el campo del procesamiento digital de la señal

RA102 - Identificar oportunidades para el desarrollo de un trabajo científico original

RA103 - Revisar el estado del arte en el tema elegido destacando las ideas principales

RA101 - Examinar el rol de la electrónica de potencia en las diferentes arquitecturas de red.

\* 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

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### 5.1. Brief description of the subject

The purpose of the advanced seminars is to present current research topics providing presentations and lectures from invited professors or experts in the area of interest. These seminars allow students to improve their knowledge in areas that are not covered with other subjects which has a much more fundamental content. Therefore, the planning and the agenda of each seminar depend on each lecture and invited professor.

## 5.2. Syllabus

1. Seminar in an selected topic

## 6. Schedule

### 6.1. Subject schedule\*

Week	Face-to-face classroom activities	Face-to-face laboratory activities	Distant / On-line	Assessment activities
1	Clase de Teoría Duration: 08:00			<p>The students will have an exam that will cover the seminar topic.</p> <p>Continuous assessment and final examination                      Presential                      Duration: 01:00</p> <p>Students participate in the seminar by responding to speakers questions and by resolving small problems during the seminar.</p> <p>Continuous assessment and final examination                      Presential                      Duration: 08:00</p>
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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 schedule is based on an a priori planning of the subject; it might be modified during the academic year, especially considering the COVID19 evolution.

## 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	The students will have an exam that will cover the seminar topic.		Face-to-face	01:00	90%	5 / 10	CG06 CT07 CT01 CB07 CB06 CG01
1	Students participate in the seminar by responding to speakers questions and by resolving small problems during the seminar.		Face-to-face	08:00	10%	5 / 10	CG01 CG06 CT07 CT01 CB07 CB06

#### 7.1.2. Final examination

Week	Description	Modality	Type	Duration	Weight	Minimum grade	Evaluated skills
1	The students will have an exam that will cover the seminar topic.		Face-to-face	01:00	90%	5 / 10	CG06 CT07 CT01 CB07 CB06 CG01
1	Students participate in the seminar by responding to speakers questions and by resolving small problems during the seminar.		Face-to-face	08:00	10%	5 / 10	CG01 CG06 CT07 CT01 CB07 CB06

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

No se ha definido la evaluación extraordinaria.



## 7.2. Assessment criteria

The purpose of the advanced seminars is to present current research topics providing presentations and lectures from invited professors or experts in the area of interest. These seminars allow students to improve their knowledge in areas that are not covered with other subjects which has a much more fundamental content. Therefore, the planning and the agenda of each seminar depend on each lecture and invited professor.