

## 220226 - Research Seminars

Coordinating unit:	205 - ESEIAAT - Terrassa School of Industrial, Aerospace and Audiovisual Engineering		
Teaching unit:	220 - ETSEIAT - Terrassa School of Industrial and Aeronautical Engineering		
Academic year:	2018		
Degree:	MASTER'S DEGREE IN SPACE AND AERONAUTICAL ENGINEERING (Syllabus 2016). (Teaching unit Optional) MASTER'S DEGREE IN INDUSTRIAL ENGINEERING (Syllabus 2013). (Teaching unit Optional) MASTER'S DEGREE IN AERONAUTICAL ENGINEERING (Syllabus 2014). (Teaching unit Optional)		
ECTS credits:	3	Teaching languages:	English

### Teaching staff

Coordinator:	Diana Cayuela Marín
Others:	Biblioteca del Campus de Terrassa, Centre de Transferència de Tecnologia de la UPC, Grups de Recerca del Campus de Terrassa

### Teaching methodology

The teaching methodology is divided into two parts:

- Face-to-face sessions of exhibition-participation of the content and realization of exercises.
- Autonomous work of study and realization of exercises and activities.

In the exhibition-participation of the contents, the teacher will introduce the theoretical bases of the terms, concepts, methods and results, illustrating them with convenient examples and asking for the realization of exercises, where appropriate, to facilitate its understanding.

The students, independently, must work the material provided by the teaching staff and the results of the working sessions-problems in order to assimilate and fix concepts.

The teacher will provide a studies and monitoring of activities plan (ATENA).

### Learning objectives of the subject

At the end of the course the student should:

- to know what methodological aspects can be applied in a research,
- to know the tools at our disposal for the bibliographic search,
- to know the sources of research funding,
- to know about the research that is carried out on the Campus of Terrassa.

### Study load

Total learning time: 75h	Hours large group:	27h	36.00%
	Self study:	48h	64.00%

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### Content

<p>Module 1: Research methodology</p>	<p>Learning time: 5h Theory classes: 3h Self study : 2h</p>
<p>Description: Introduction. Research definition and types. The methods in research. A general research method.</p>	
<p>Module 2: Search of the known facts</p>	<p>Learning time: 7h Theory classes: 2h Self study : 5h</p>
<p>Description: Through a seminar, the bibliographic search tools available for research will be revised</p>	
<p>Module 3: Seminars of the research groups of the Campus of Terrassa</p>	<p>Learning time: 38h Theory classes: 18h Self study : 20h</p>
<p>Description: The different research groups present in the Campus of Terrassa will be present their research lines and its results.</p>	
<p>Module 4: Broadcasting of the research results</p>	<p>Learning time: 18h Theory classes: 2h Self study : 16h</p>
<p>Description: Describes the type of existing publications, the structure of a scientific or technical publication, reporting structure, conferences. Patents.</p>	
<p>Module 5: Sources of research funding</p>	<p>Learning time: 7h Theory classes: 2h Self study : 5h</p>
<p>Description: Describes the existing funding of the research sources.</p>	

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### Qualification system

Students must present, in article and Conference formats a memory that contemplates a possible project that can be framed within the research of one of the research groups of the Terrassa Campus. The project must include all aspects dealt with in the course.

Report of the project: 60%

Presentation: 40%

### Bibliography

Basic:

Cegarra, José. Metodología de la investigación científica y tecnológica. Madrid: Díaz de Santos, 2004. ISBN 8479786248.

Others resources:

Notes are available to the students in ATENEA