

<b>Subject</b>	SEMINARS ON CURRENT TOPICS OF PHOTOVOLTAICS
<b>Credits</b>	3 ECTS (3T)
<b>Character</b>	Elective
<b>Semester</b>	2nd
<b>Language</b>	Spanish

### Competences

CG5 – Information management: to search for and manage appropriate bibliographic resources efficiently, to learn to continue studies in a largely autonomous way as a basis for future research and innovation activity

CG6 - Economic and administrative management: critically analyze and design complex systems and solutions, apply technologies to manage and deal with complexity with a systemic approach; make judgments on the economic, social, ethical and environmental implications linked to the application of their knowledge (respecting the principles of equality and universality of access); analyze, select, design and integrate technologies with appropriate technical-economic criteria

CG8 - Apply methodologies, procedures, tools and state-of-the-art standards for the creation of new technological components; build new hypotheses and models, evaluate them and apply them to problem solving

CG9 - Communicate judgments and knowledge to specialized and non-specialized audiences in a reasoned, clear and unambiguous manner.

CB8 - Students are able to integrate knowledge and face the complexity of making judgments based on incomplete or limited information, including reflections on the social and ethical responsibilities related to the application of their knowledge and judgments.

CB9 - Students should be able to communicate their conclusions and the ultimate knowledge and rationale behind them to specialized and non-specialized audiences in a clear and unambiguous manner.

CB10 - That students possess the learning skills that will enable them to continue studying in a manner that will be largely self-directed or autonomous.

CT4 - Team leadership: to carry out team work (such as those of some of the evaluation activities of the subjects), to integrate into a research group by actively participating in its meetings, collaborating with own initiative in R+D+i works or projects; to interact effectively with the members of the multidisciplinary work team

CE1 - Understanding, analyzing and judging the relevance of any contribution in this field, in relation to its social, energetic and scientific-technical environment.

CE2 - Knowledge, analysis and proposals of new concepts, methods or devices for photovoltaic conversion.

CE5 - Design, analysis, characterization, planning and installation of general purpose, stand-alone or grid-connected photovoltaic components and systems

## **Outcomes**

RA02 - General training on applications, practical use of photovoltaic systems and a perspective on photovoltaic technology.

RA04 - Ability to analyze results

RA05 - Relate basic principles to practical aspects

RA15 - Training in costing techniques

RA16 - Knowledge of the institutional framework of grants and subsidies for commercial and R&D promotion.

RA17 - Designing commercial offers and pitches

RA45 - To train the student to make public presentations

RA46 - To train the student to work in a team

RA47 - Learn to argue convincingly

RA48 - To apply the services and tools available in the market to the design of photovoltaic systems.

## **Description and syllabus**

The aim is to transfer to the student the vision of the main players in the photovoltaic sector on some of the most important current issues related to photovoltaic solar energy. Some of these sessions may address aspects studied in other subjects, but complementing them from a perspective closer to the professional reality, for which external collaborations in the form of presentations by industry experts will be used.

Schematically, the topics to be addressed include:

1. Cost analysis of photovoltaic installations. Development of case studies
2. Regulatory framework in Spain and other countries of Photovoltaic Solar Energy. Creation of technology-based companies in the photovoltaic sector.
3. Operation of the Spanish electricity market.
4. Forecasts of solar production and energy management in distribution companies.
5. Overview of emerging photovoltaic technologies.
6. Professional practice in companies of the sector.