Universitat Autònoma de Barcelona

2020/2021

Intellectual Property and Technological Transfer

Code: 43428
ECTS Credits: 6

Degree	Type	Year	Semester
4314939 Advanced Nanoscience and Nanotechnology	OB	0	2

The proposed teaching and assessment methodology that appear in the guide may be subject to changes as a result of the restrictions to face-to-face class attendance imposed by the health authorities.

Contact

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Use of Languages

Principal working language: english (eng)

External teachers

Júlia Palma

Prerequisites

None

Objectives and Contextualisation

The objective of this module is to provide the student with tools to innovate and help and suport scientific skills. Different forms of protecting new scientific research, information on technology transfer and business aspects of IP, and use of technical information are introduced.

Competences

- Analyse research results to obtain new products or processes, assessing their industrial and commercial viability with a view to transferring them to society
- Communicate and justify conclusions clearly and unambiguously to both specialised and non-specialised audiences.
- Manage intellectual property product research and development in nanoscience and nanotechnology, and make its commercial exploitation.
- Seek out information in the scientific literature using appropriate channels, and use this information to formulate and contextualise a research topic.
- Show expertise in using scientific terminology and explaining research results in the context of scientific production, in order to understand and interact effectively with other professionals.

Learning Outcomes

1. Analyse research results to obtain new products or processes, assessing their industrial and commercial viability with a view to transferring them to society.
2. Communicate and justify conclusions clearly and unambiguously to both specialised and non-specialised audiences.
3. Describe the structure of a business plan, and argue the validity or otherwise of a business proposal.

4. Identify the advantages and disadvantages of the legal forms in which companies can be technology-based.
5. Indicate the stages of licensing intellectual property for commercial use.
6. Know the procedure for processing of a patent, the concepts that are patentable and the rights that flow from it.
7. Seek out information in the scientific literature using appropriate channels, and use this information to formulate and contextualise a research topic.
8. Show expertise in using scientific terminology and explaining research results in the context of scientific production, in order to understand and interact effectively with other professionals.

Content

During the course the following topics are to be covered:

(i) Different forms of protecting research results

(ii) Patents: structure, prosecution, infringement, licensing

(iii) Patent information

(iv) Technology transfer and business aspects of IP

Methodology

The objectives of the course are to be achieved by means of regular teaching, attendance to proposed seminars, working on projects and self-study.

Activities

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Tutorial support sessions	20	0.8	1, 7, 6, 3, 8, 4, 5
Type: Autonomous			
Reading support materials	40	1.6	1, 7, 6, 3, 8, 4, 5, 2

Assessment

In order to qualify for this course, the following items are to be considered:

(i) exam (45%)

(ii) patent project (45%)

(iii) Attendance and participation (10%)

It is possible to have the chance to increase the mark of the synthesis exam in an extra test (only for those students that have carried out all previous evaluations along the course, irrespective of the marks).

Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes

Attendance and participation	10%	0	0	2
Delivery of projects	45%	90	3.6	1, 7, 6, 3, 8, 4, 5, 2
Exam	45%	0	0	7, 6, 4, 5

Bibliography

To be provided at the beginning of the course