

Academic Year: ( 2018 / 2019 )

Review date: 09-05-2018

Department assigned to the subject: Mechanical Engineering Department

Coordinating teacher: NIETO SANCHEZ, MARIA JESUS

Type: Electives ECTS Credits : 3.0

Year : 1 Semester : 2

**REQUIREMENTS (SUBJECTS THAT ARE ASSUMED TO BE KNOWN)**

The compulsory subject of first term are recommended.

**OBJECTIVES**

This subject aims students to know the peculiarities involving Technology based firms. After completing this subject, students will be able to understand and manage the specific issues that affect the creation of Technology-Based Companies. It focuses on skills related to the management of technology assets and the mechanisms for collaboration between universities and companies to promote the creation of EBT be provided. Specifically, this course reinforces some specific competences:

- Ability to understand, analyze and solve complex problems related to venture, expansion and consolidation of a business project from extensive knowledge of advanced tools of business management.
- Ability to critically analyze cases of companies and draw from them conclusions relevant to business practice.

**DESCRIPTION OF CONTENTS: PROGRAMME**

The concept of Technology Based Companies (TC): alternative definitions and typologies  
Technological knowledge management  
Knowledge transfer among TC  
Intangible assets of a technological nature  
Technological resources and competitive advantage  
The management of intangible assets of a technological nature  
Economic valuation of intangibles  
Development of R+D+i in high-tech companies  
Funding for TC  
Public policies to support the creation of spin-offs  
Tax incentives for spin-offs  
University-industry collaboration and the creation of spin-offs  
Programs to support the creation of university spin-offs  
Technological collaboration and innovation in TC

**LEARNING ACTIVITIES AND METHODOLOGY**

- a) Theoretical classes
- b) Seminars
- c) Practical classes

**ASSESSMENT SYSTEM**

Assessment will be based on coursework, students participation and final examinations, following this criterion:

- Class involvement and participation: 40%
- Final exam: 60%

This assessment is applied both in the ordinary and extraordinary call

<b>% end-of-term-examination:</b>	60
<b>% of continuous assessment (assignments, laboratory, practicals...):</b>	40

#### BASIC BIBLIOGRAPHY

- Díaz, E., Souto, J.E., Tejeiro, M.R. NEBTS 3. Nuevas empresas de base tecnológica. Caracterización, necesidades y evolución en un periodo de crecimiento y en otro de ralentización y recesión económica. , Fundación Madri+d para el Conocimiento, 2014
- Souto, J.E Innovación, emprendimiento y empresas de base tecnológica en España : factores críticos e impacto sobre la competitividad de la economía, Netbiblo, 2013
- Tidd, J., Bessant J. Managing innovation. Integrating technological, market and organizational change, John Wiley & Sons.. 5th Edition. UK., 2013

#### ADDITIONAL BIBLIOGRAPHY

- Simón Elorz, K. La creación de empresas de base tecnológica: una experiencia práctica, CEIN, 2003