

## Internship

Academic Year: ( 2023 / 2024 )

Review date: 09-05-2023

Department assigned to the subject: Computer Science and Engineering Department

Coordinating teacher: TOLEDO HERAS, MARIA PAULA DE

Type: Compulsory ECTS Credits : 6.0

Year : 1 Semester : 2

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

No pre-requisites

## OBJECTIVES

## Competences

- Ability to apply acquired knowledge to problem solving in new or less known environments related to their area of expertise
- Ability to communicate to specialized and non specialized public
- Ability to cope in a real work environment
- Ability to involve in continuous education and independent learning
- Ability to understand and apply methods and development technologies in the scope of computer science to the financial sector
- Writing ability, ability to produce a technical report
- Understand main concepts associated to financial markets
- Analyze and evaluate information and communication technologies applied to the financial sector
- Ability to develop financial software
- Ability to implement classic algorithms in the financial markets sector following appropriate standards and procedures
- Analyze and understand the key tools for the management of large data volumes, their storage, access and processing

## DESCRIPTION OF CONTENTS: PROGRAMME

180 hour internship at a company, under the supervision of a staff member (tutor en la empresa / company supervisor) and an academic tutor at the university

The job must be directly related to the master key contents, at least to one of the three main topics: Technologies applied to the financial markets, financial software development and Decision Support Systems in the financial sector

## LEARNING ACTIVITIES AND METHODOLOGY

150 hours of practice under the supervision of the company supervisor

Tutorships with the academic tutor according to the needs, either face-to-face or remote

30 hours for preparing the final report

Prepare an internship plan to be delivered at the beginning of the internship

Prepare a final report

## ASSESSMENT SYSTEM

Report describing the internship 70%  
Evaluation report from the company supervisor 20%  
Evaluation form the academic supervisor 10%  
See the assessment matrix more details

## BASIC BIBLIOGRAPHY

- H. Frederick Sweitzer, Mary A. King The Successful Internship: Personal, Professional, and Civic Development in Experiential Learning, Cengage Learning. ISBN-13: 978-1285077192, 2013

## ADDITIONAL BIBLIOGRAPHY

- Lauren Berger All All Work, No Pay: Finding an Internship, Building Your Resume, Making Connections, and Gaining Job Experience, Lauren Berger, 2012  
- WetFeet.com (Firm). Getting your ideal internship, WetFeet c2008. ISBN 1-58207-831-9, 2008

## BASIC ELECTRONIC RESOURCES

- Bryan Weis . How I landed an internship at a top fintech startup in NYC: <https://medium.com/@weis/how-i-landed-an-internship-at-a-top-fintech-startup-in-nyc-ec11ec919eee>