STUDENTS ARE EXPECTED TO HAVE COMPLETED
Information Skills
IT Management

COMPETENCES AND SKILLS THAT WILL BE ACQUIRED AND LEARNING RESULTS.

Objective
The objective of this course is to teach the student, in a practical way, the data and programming structures for the development of macros and applications developed with Visual Basic for Applications (VBA), a programming language that is de facto incorporated into the Microsoft Office suite to automate and extend the capabilities of the programs that make up this suite.

Competencies
1. Know the proprietary software and free software alternatives that exist in the market to perform accounting and financial data analysis.
2. Learn to analyze macros and applications developed with Visual Basic for Applications.
3. Learn to design macros and applications developed with Visual Basic for Applications.
4. Learn to build macros and applications developed with Visual Basic for Applications.
5. Learn to use macros and applications developed with Visual Basic for Applications.
6. Learn programming syntax and paradigm of the R language

Competences:
1. Identify alternatives of proprietary and free software on the market for analysis of accounting and financial data.
2. Learn how to use advanced features that allow to carry out accounting or financial analysis using Microsoft Excel.
3. Learn to create and use PivotTables in Microsoft Excel for data analysis.
4. Learn to design, build and use macros and applications developed with Visual Basic for Applications.

DESCRIPTION OF CONTENTS: PROGRAMME

1. Analysis and application design techniques.
2. Macro construction, recording and automatic generation with Microsoft Excel.
4. Development and debugging environment of Visual Basic for Applications (VBA)
5. Data structure
6. Programming structures
7. Creation of own functions.
8. Creation of forms.
10. Introduction to Language R.

LEARNING ACTIVITIES AND METHODOLOGY
The subject will be taught in practical classes through which students will learn the data and programming structures for the development of macros and applications developed with Visual Basic for Applications (VBA).

The 6 ECTS credits of this course are distributed with the following workload for the student:
1. Lectures: 1 ECTS
2. Practicals: 2 ECTS
3. Continuous assessment: 1 ECTS
4. Individual student work 2 ECTS

ASSESSMENT SYSTEM

The assessment will consider, on one hand, a final exam that will provide 40% of the final mark and, on the other, the results of a continuous evaluation process that will include assignments and two mid-term tests. Each of these will provide 15% of the total mark.

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

BASIC BIBLIOGRAPHY