

Academic Year/course: 2022/23

30264 - Electronic Commerce

Syllabus Information

Academic Year: 2022/23

Subject: 30264 - Electronic Commerce

Faculty / School: 110 - Escuela de Ingeniería y Arquitectura
326 - Escuela Universitaria Politécnica de Teruel

Degree: 439 - Bachelor's Degree in Informatics Engineering
443 - Bachelor's Degree in Informatics Engineering

ECTS: 6.0

Year: 4

Semester: Second semester

Subject Type:

Module:

1. General information

2. Learning goals

3. Assessment (1st and 2nd call)

4. Methodology, learning tasks, syllabus and resources

4.1. Methodological overview

The methodology to be used to achieve the proposed learning outcomes are as follows:

- M1: Participative Lecture (30 hours). Presentation by the teacher of the main contents of the subject, combined with the active participation of students. This activity will take place in the classroom. This methodology, supported by the student personal work (M14) is designed to provide them with the theoretical bases of the subject content.
- M9: Laboratory practices (30 hours). The students will have two hours of practices sessions per week. This activity will take place at the Laboratory Practices 2.03 (Telematics Laboratory, "Ada Byron" building) . The work will be carried out in small groups.
- M10: Tutoring. Time for personalized attention to students with the aim of reviewing and discussing the materials and topics presented in both theoretical and practical classes.
- M11: Evaluation (4 hours). Set of theoretical tests and/or reporting practices used for the evaluation of student progress. Further details can be found in the section of evaluation activities

4.2. Learning tasks

As described in the methodological presentation, the activities are divided into Lectures (30 hours) to be taught in the classroom and laboratory practice (30 hours) in which students can build their own business from scratch, applying the knowledge acquired in lectures. Complementarily, students have tutorial hours for consulting those personal doubts that have been able to emerge.

4.3. Syllabus

The course will address the following topics:

1. Introduction to Electronic Commerce

- 1.1. E-commerce History
- 1.2. E-commerce Features
 - 1.2.1. Advantages
 - 1.2.2. Disadvantages
- 1.3. Feasibility Researches

2. Domain Names

3. Business Models

- 3.1. Types of Business Models
- 3.2. Graphical Modeling of Business
 - 3.2.1. Schematic
 - 3.2.2. Value Chain
 - 3.2.3. Canvas
- 3.3. Patterns

4. Business Plans

- 4.1. Idea Generation
- 4.2. Project Presentation
- 4.3. Strategic Feasibility
- 4.4. Commercial Feasibility
- 4.5. Technical Feasibility
- 4.6. Legal and Organizational Structure
- 4.7. Economic and Financial Analysis

5. Entrepreneurship

- 5.1. Design
- 5.2. Strategies
- 5.3. Processes

6. Information Architectures

- 6.1. Definition and Relevance of Information Architecture (IA)
- 6.2. Content Settings
- 6.3. Content Taggings
- 6.4. Browsing Systems
- 6.5. Search Systems

7. Usability

- 7.1. Relevance of Usability
- 7.2. Usability criteria
- 7.3. Accessibility
- 7.4. User-Centered Design
- 7.5. Web Design Compilation

8. Web Projects Management

9. Payment

- 9.1. Current Problems
- 9.2. Environmental Features
- 9.3. Online Payments vs Offline Payments
- 9.4. Micropayments
- 9.5. Other Payment Schemes

10. Security

- 10.1. Digital Certificates
- 10.2. SSL Protocol
- 10.3. Web Security

11. Online Advertising

12. Web Analytics

- 12.1. Introduction
- 12.2. Measurement Parameters
- 12.3. Goals

12.3.1. Conversions

12.3.2. Goals

12.3.3. Key Performance Indicator (KPI)

12.4. Analysis

13. Search Engine Optimization (SEO)

14. Hardware Infrastructure for E-commerce

15. Implementation of E-commerce Projects

15.1. Hosting Models

15.2. Provider Selection

15.3. Buying Domains

15.4. Obtaining a Digital Certificate

16. Laws in E-commerce

16.1. LOPD

16.2. LSSICE

16.3. Digital signature

Lab practices:

This activity will be conducted in a computer classroom. It will include 15 two-hour sessions. Students then will present the results required for each of the practices.

4.4. Course planning and calendar

The timing of the subject, will be defined by the center in the academic calendar of the corresponding course.

4.5. Bibliography and recommended resources

EINA:

<http://psfunizar10.unizar.es/br13/egAsignaturas.php?codigo=30264&Identificador=15428>

EUPT:

<http://psfunizar10.unizar.es/br13/egAsignaturas.php?codigo=30264&Identificador=15479>