30254 - Legacy System

Información del Plan Docente

Academic Year	2017/18
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	Half-yearly
Subject Type	Compulsory
Module	---

1.General information

1.1.Introduction

1.2.Recommendations to take this course

1.3.Context and importance of this course in the degree

1.4.Activities and key dates

2.Learning goals

2.1.Learning goals

2.2.Importance of learning goals

3.Aims of the course and competences

3.1.Aims of the course

3.2.Competences

4.Assessment (1st and 2nd call)

4.1.Assessment tasks (description of tasks, marking system and assessment criteria)

5.Methodology, learning tasks, syllabus and resources

5.1.Methodological overview

The learning process of this course is based on:

- The presentation of contents by the professors, and the resolution of exercises in class.
- The personal study by the students and their participation in class in solving exercises.

- The development of practical assignments by the students, oriented by the professors, who will develop the theoretical knowledge acquired.

It must be taken into account that, although the course has a practical orientation, acquiring the needed theoretical knowledge is also required. Therefore, the learning process emphasizes both the theoretical concepts and the individualized study as well as the development of the practical work.

5.2.Learning tasks

The programa offerted to students to help them to achieve the expected results is composed of the following activities:

- The subject program will be developed in the classroom.
- Problems with concept application and techniques explained in the program of the subject will be solved in special classes dedicated to those problems.
- Practical sessions will take place in computer labs. In such sessions students will develop practical work related to this subject.

5.3.Syllabus

Part I: Introduction to Legacy Systems

- Motivation: Some real cases
- Evolution of computer science technology
- Open and closed systems

Part II: Software maintenance and integraton

- Reserve engineering
- Reengineering
- Encapsulation
- Migration strategies

Part III: Digital preservation of computer systems

- Digitalization
- Emulation

For more details, access to the web of the subject (EINA).

5.4.Course planning and calendar

The calendar of classes, lab sessions, and exams, as well as the dates of presentation of intermediate evaluations, will be announced in advance, according to the sessions and dates established by the School.

5.5.Bibliography and recommended resources

[BB: Basic Bibliography / BC: Additional Bibliography]

- Zaragoza:
  - [BB] Macluskey. Memorias de un Viejo Informático : Macluskey, 2009-2014. [s.l.] : Macluskey, 2014.
  - [BB] Seacord, Robert C. Modernizing legacy systems : software technologies, engineering processes, and business practices / Robert C. Seacord, Daniel Plakosh, Grace A. Lewis . Boston [etc.] : Addison-Wesley, cop. 2003

30254 - Legacy System

- [BB] Ulrich, William M. Legacy systems : transformation strategies / William Ulrich . Upper Saddle River (New Jersey) : Prentice Hall, cop. 2002
- [BC] 3. Astor Vignau, Joan. Lenguaje de programación COBOL / J. Astor Vignau . - 5a. ed. Barcelona : Edunsa, 1988
- [BC] 4. Philippakis, A.S. COBOL Estructurado / A.S. Philippakis, L.J. Kazmier MCGraw-Hill, 1983
- [BC] 5. Guillet, P.. Virtualización de sistemas de información con VMware / P. Guillet Eni Ediciones, 2010

Teruel:

- [BB] Gillet, P. Virtualización de sistemas de información con VMware :arquitectura, proyecto, seguridad y feedbacks / Philippe Gillet. Barcelona : ENI, 2010
- [BB] Philippakis, Andreas S.. Cobol estructurado [Texto impreso] / Andreas S. Philippakis, Leonard J. Kazmier. México [etc.] : McGraw-Hill, 1993
- [BB] Seacord, Robert C. Modernizing legacy systems [Recurso electrónico] :]software technologies, engineering processes, and business practices / Robert C. Seacord, Daniel Plakosh, Grace A. Lewis. Boston : Addison-Wesley, 2003
- [BB] Ulrich, William M.. Legacy systems :transformation strategies / William Ulrich. Upper Saddle River, NJ : Prentice Hall, cop. 2002
- [BC] Astor Vignau, Joan. Lenguaje de programación COBOL / J. Astor Vignau . 5a. ed. Barcelona : Edunsa, 1988