

## 30254 - Legacy System

### Syllabus Information

**Academic Year:** 2020/21

**Subject:** 30254 - Legacy System

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

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

**ECTS:** 6.0

**Year:** 4

**Semester:** 439 - First semester

439 - First semester

439 - First semester

439 - First semester

439 - First semester

439 - First semester

439 - First semester

439 - First semester

443 - First semester

443 - First semester

443 - First semester

443 - First semester

**Subject Type:** ---

**Module:** ---

## 1.General information

### 1.1.Aims of the course

### 1.2.Context and importance of this course in the degree

### 1.3.Recommendations to take this course

## 2.Learning goals

### 2.1.Competences

### 2.2.Learning goals

### 2.3.Importance of learning goals

## 3.Assessment (1st and 2nd call)

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

## 4.Methodology, learning tasks, syllabus and resources

### 4.1.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 practical work.

## 4.2.Learning tasks

The course includes the following learning tasks:

- 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.

## 4.3.Syllabus

The course will address the following topics:

Section I: Introduction to Legacy Systems

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

Section II: Software maintenance and integration

- Reserve engineering
- Reengineering
- Encapsulation
- Migration strategies

Section III: Digital preservation of computer systems

- Digitalization
- Emulation

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

## 4.4.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.

## 4.5.Bibliography and recommended resources

EINA:

<http://psfunizar7.unizar.es/br13/egAsignaturas.php?codigo=30254&Identificador=14712>

EUPT:

<http://psfunizar7.unizar.es/br13/egAsignaturas.php?codigo=30254&Identificador=13625>

[BB: Basic Bibliography / BC: Additional Bibliography]

- [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
- [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