DATOS BÁSICOS DE LA ASIGNATURA

- **Titulación:** Grado en Ingeniería Informática-Ingeniería del Software
- **Año del plan de estudio:** 2010
- **Centro:** E.T.S. Ingeniería Informática
- **Asignatura:** Diseño y Pruebas
- **Código:** 2050018
- **Tipo:** Obligatoria
- **Curso:** 3º
- **Período de impartición:** Anual
- **Ciclo:** 0
- **Área:** Lenguajes y Sistemas Informáticos (Área responsable)
- **Horas:** 300
- **Créditos totales:** 12.0
- **Departamento:** Lenguajes y Sistemas Informáticos (Departamento responsable)
- **Dirección física:** AVDA. REINA MERCEDES, S/N, 41012, SEVILLA
- **Dirección electrónica:** http://www.lsi.us.es/

OBJETIVOS Y COMPETENCIAS

**Objetivos docentes específicos**

The goal of this subject is to help our students get acquainted with the knowledge and skills they shall require to face the professional development of a web information system.

**Competencias**

- **Competencias transversales/genéricas**

  According to the verification card (BOE 245, October 11, 2011).

  - G05: Ability to design, develop, and maintain systems, services and applications using the methods of software engineering as a tool for quality assurance.

  - G09: Ability to solve problems with initiative, decision making, autonomy, and creativity. Ability to learn to communicate and transmit
the knowledge, skills and abilities of the profession in Computer Engineering.

**Competencias específicas**

According to the verification card (BOE 245, October, 11 2011).

- E25. Ability to develop, maintain, and evaluate software systems and services that satisfy the user requirements and behave reliably and efficiently, are affordable to develop and maintain, and meet quality standards, applying the theories, principles, methods and practices of Software Engineering.

- E28. Ability to identify and analyse problems and design, develop, implement, verify and document software solutions based on adequate knowledge of the theories, models and techniques.

- E30. Ability to design appropriate solutions in one or more application domains using methods of software engineering that integrate ethical, social, legal and economic issues.

**CONTENIDOS DE LA ASIGNATURA**

Theoretical background.
Design of a web information system.
Testing of a web information system.
Implementation of a web information system.
Deployment of a web information system.

**ACTIVIDADES FORMATIVAS**

Relación de actividades formativas del primer cuatrimestre

*Theory lectures*

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<th>Horas presenciales:</th>
<th>29.0</th>
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<td>Horas no presenciales:</td>
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*Metodología de enseñanza-aprendizaje:*

Slide-based presentations, problems, and questions. The learning materials shall be delivered in English, which is the working language of this subject.

*Competencias que desarrolla:*

All of them.

*Laboratory lectures*

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<th>Horas presenciales:</th>
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*Metodología de enseñanza-aprendizaje:*

Slide-based presentations, problems, and questions. The learning materials shall be delivered in English, which is the working language of this subject.

*Competencias que desarrolla:*

All of them.

*Control checks*

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<th>Horas presenciales:</th>
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<td>Horas no presenciales:</td>
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*Metodología de enseñanza-aprendizaje:*

The goal of a control check is to discover students who are allegedly cheating, that is students whose knowledge level does not match the deliverables they supposedly produced. The materials regarding control checks will be delivered in English, which is the working language of this subject.
Home work

Horas presenciales: 0.0
Horas no presenciales: 90.0

Metodología de enseñanza-aprendizaje:

The students shall be assigned a number of tasks on which they shall have to work at home, individually or in group. Many such tasks shall consists in developing a part of a laboratory project.

Competencias que desarrolla:
All of them.

Relación de actividades formativas del segundo cuatrimestre

Theory Lectures

Horas presenciales: 29.0
Horas no presenciales: 0.0

Metodología de enseñanza-aprendizaje:

Slide-based presentations, problems, and questions. The learning materials shall be delivered in English, which is the working language of this subject.

Competencias que desarrolla:
All of them

Laboratory lectures

Horas presenciales: 29.0
Horas no presenciales: 0.0

Metodología de enseñanza-aprendizaje:

Slide-based presentations, problems, and questions. The learning materials shall be delivered in English, which is the working language of this subject.

Competencias que desarrolla:
All of them

Control checks

Horas presenciales: 2.0
Horas no presenciales: 0.0

Metodología de enseñanza-aprendizaje:

The goal of a control check is to discover students who are allegedly cheating, that is students whose knowledge level does not match the deliverables they supposedly produced. The materials regarding control checks will be delivered in English, which is the working language of this subject.

Home work

Horas presenciales: 0.0
Horas no presenciales: 90.0

Metodología de enseñanza-aprendizaje:

The students shall be assigned a number of tasks on which they shall have to work at home, individually or in group. Many such tasks shall consists in developing a part of a laboratory project.

Competencias que desarrolla:
All of them.
Deliverables

The student shall have to produce several deliverables regarding the topics with which this subject deals. The mark attained shall absolutely depend on the quality of the deliverables. To pass the subject, a student must pass every deliverable. Furthermore, to discover students who are allegedly cheating, the students may have to pass a control check to verify that their knowledge level does match the deliverables they supposedly produced.