Centre	**University College of Engineering of Vitoria-Gasteiz**
Name of subject	**26029 – Web Systems**
Qualification	**Degree in Computer Management and Information Systems Engineering**
Type	**Compulsory**
Credits	**6 ECTS**
Year	**3**
Term(s)	**2nd**
Department	**Systems and Automatics Engineering**
Language	**Spanish**

Outcomes / Objectives

This subject deals with the main aspects that support web information systems, tracing the history of the Web, its technological support, the architecture of its applications and basic client- and server-side technologies, as well as information exchange technology (XML). The advanced aspects are concerned with the knowledge of the fundamentals of Web services, the architecture of emerging information systems, and the increasingly more important aspect of security, including an introduction to the protocols that incorporate security elements.

Syllabus

Introduction, from the Internet to the Web: HTML. Introduction. Revision of concepts. Protocols for the web: from IP to http. In-depth study of different level protocols. Architecture of web-based applications: the client-server model. Architecture of client/server based applications. Server-side applications: CGI. Server-side technology: CGI. Client-side applications: JavaScript. Client-side technology: JavaScript. Information exchange and processing: XML. Information exchange through XML. Web services: SOAP, WSDL, UDDI. Web-based information systems: portals (WSRP), wikis, content syndication (RSS), Web-based information systems security: IPSec, SSL, Banking and e-commerce security.

Methodology

Teaching Method

Face-to-Face Teaching Hours								
Lectures	**Seminars**	**Classroom practice**	**Lab. practice**	**Computer sessions**	**Clinical practice**	**Workshops**	**Industrial workshops**	**Field practice**
40			**20**					
Student Hours of Non Face-To-Face Activities								
Lectures	**Seminars**	**Classroom practice**	**Lab. practice**	**Computer sessions**	**Clinical practice**	**Workshops**	**Industrial workshops**	**Field practice**
60			**30**					

Assessment System

General criteria

Clarification regarding assessment

Compulsory materials

Class notes, teaching support materials in the classroom and laboratories.

Bibliography

Basic Bibliography

- An Introduction to XML and Web Technologies. Anders Møller and Michael I. Schwartzbach Addison-Wesley, Enero 2006

In-depth Bibliography

- Software Engineering for Internet Applications Eve Andersson, Philip Greenspun, and Andrew Grumet MIT Press 2006; ISBN 0262511916
- KAPPEL, Gerti et al. (Eds.) Web Engineering, John Wiley & Sons, 2006.
- SHKLAR, Leon et al. Web Application Architecture: Principles, Protocols and Practices, John Wiley & Sons, 2003

Journals

Websites

- http://www.w3.org/http://www.librosweb.es/