uc3m | Universidad **Carlos III** de Madrid

Computing technologies for the web

REQUIREMENTS (SUBJECTS THAT ARE ASSUMED TO BE KNOWN)

- Programming (Course: 1 / Semester: 1)
- User Interfaces (Course: 3 / Semester: 1)

DESCRIPTION OF CONTENTS: PROGRAMME

1· Development of distributed components
2· Web programming
3· Web application design patterns
4· Techniques for asynchronous communications with servers
5· MVC architectures (Vista-Controller Model)
6· Persistence engines
7· Web development for specific platforms

LEARNING ACTIVITIES AND METHODOLOGY

* Theoretical lectures: 1.5 ECTS. To achieve the specific cognitive competences of the course. Besides, to develop transversal competeces as capacity to analysis and abstraction.
* Practical lectures: 1 ECTS. To develop the specific instrumental competences. Besides, to develop transversal competeces as problem solving and knowledge application.
* Continous assessment exercises: 1,5 ECTS. Iniciated during the practical sessions and finished out of them. Their objective is to complete the development of the specific instrumental competences and to iniciate the developemnt of the actitudinals specific competences as well as the transveral competeces on problem solving and knowledge application.
* Practice: 2 ECTS. Carried out withouth the presence of the teacher. Their objective is to complete and integrate the development of the specific competences and transversal competences by means of practice cases in which the problem, solving method, criteria for selecting the solving method, the results and their interpretation are well documented.
* Tutorships: Teacher assistance
* Exercises and examination: 0,5 ECTS. To complete the development of specific cognitive and procedimental capacities

ASSESSMENT SYSTEM

Continuous assessment: 60%
Final exam: 40%

Minimum mark exam: 3 (over 10)

% end-of-term-examination:	40
% of continuous assessment (assigments, laboratory, practicals…):	60

BASIC BIBLIOGRAPHY

- Allamaraju, Subrahmanyam Programación Java Server con J2EE Edición1.3, Anaya.

- Allamaraju, Subrahmanyam Programación Java Server con J2EE Edición1.3, Anaya.

- Brett McLaughlin Java and XML, O`Reilly UK.

- Bruce W. Perry Java Servlet & JSP Cookbook, O`Reilly UK.

- Budi Kurniawan Java Web Developments with Servlets, JSP and EJB, Sams.

- Elizabeth Castro XML for the World Wide Web, Peachpit Press.

- Hugh E. Williams, David Lane Web Database Applications with PHP and MySQL, O`Reilly UK.

ADDITIONAL BIBLIOGRAPHY
- http://biblioteca.uc3m.es/uhtbin/cgisirsi/x/uc3m/0/5?searchdata1=^B648 -, -.

- Budi Kurniawan Java Web Developments with Servlets, JSP and EJB, Sams.

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