Universidad Carlos III de Madrid
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COURSE: CORPORATE INFORMATION SYSTEMS DEVELOPMENT		
DEGREE: Bachelor in Informatics Engineering	**YEAR: 4**	**TERM: 1**

La asignatura tiene 29 sesiones que se distribuyen a lo largo de 14 semanas. Las sesiones complementarias pueden situarse en cualquiera de ellas. Semanalmente el alumnos tendrá dos sesiones, excepto en un caso que serán tres.

WEEKLY PLANNING

WEEK	SESSION	DESCRIPTION	GROUPS (mark X)		SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room)	Indicate YES/NO If the session needs 2 teachers	WEEKLY PROGRAMMING FOR STUDENT		
			LECTURES	SEMINARS			DESCRIPTION	CLASS HOURS	HOMEWORK HOURS (Max. 7h week)
1	1	**Course presentation. Introduction** Course presentation lecture. Introduction to Corporate information systems. Definition of Corporate Information Systems: types and applications: ERP, CRM and Corporative Portals	X		Classroom	NO	Teams composition and organization. Definition of teams brand image. Study of th proposed technical environment. Analysis o development alternatives.	1,6	4

1	2	**Creation of Teams.** Presentation of the Practice. Definition of the technical environment of the development to be carried out.		X	Computer Classroom	NO		1,6	
2	3	**Information Systems: Workflow ,DSS and Knowledge Management.** **Information System Plan:** Presentation of the need to unify and standardize the development (including management) software projects in corporate environments, associated problems and solutions. Differences between systems plan and project plan. **Alternatives to the development of corporate Information Systems** .	X		Classroom	NO	Assignment of modules to each group. Requirements analysis of each module.	1,6	4
2	4	Definition of the business objectives of the corporative development. Identification of system features. Roles and responsibilities.		X	Comptuer Classroom	YES		1,6	
3	5	Presentation of Project Plan: objectives, standards and alternative standards and practices.			Classroom	NO	Requirements analysis of each module.	1,6	7

		Management of commitments: presentation of the importance of the commitment of the engineer in product quality throughout the processes of corporate development.	X				Definition of a project plan according a proposed standard. Module Presentations (Continuous Assessment)		
3	6	**Corporate Data and Data Representation**		X	Computer classroom	YES		1,6	
4	7	. **Project Organization. Integral Project Management.** Review of the different processes that must be addressed in the management of software development projects. The issue of teamwork: version control. Coding standards: .	X		Classroom	NO	Development of a Project Plan: Based on a standard project plan, students will develop the project plan for a corporate information system.	1,6	7
4	8	**Work in Project.** Corporate Design for User Interface		X	Computer classroom	NO		1,6	
5	9	**Advanced Planning.** Introduction to project coordination. Systems integration. The problem of planning in corporative environments.	X		Classroom	NO	Planning for each subsystem: from information obtained in the previous sessions about the activities of project management, develop a detailed plan for each subsystem using a software tool. Planning the project: elaborate the complete project planning, bringing together the planning of the subsystems and solving the problems of cooperative work. (Continuous Assessment)	1,6	7
5	10	**Planning using software tools. Project planning and coordination among work groups.** Integrate the group subsystems planning into the overall planning of the project.		X	Computer classroom	NO		1,6	

6	11	**Software size metrics.** Presentation of the different techniques for estimating and determining the software size.	X		Classroom	NO	Technical Design and System Architecture.	1,6	7
6	12	**Design: Overall Corporate System Architecture and Modules Architecture. Integration issues.**		X	Computer classroom	YES		1,6	
7	13	**Software size metrics.** Presentation of the different techniques for estimating and determining the software size.	X		Classroom	NO	P1. Project Plan & Analysis (Continuous Assessment)	1,6	7
7	14	**Work Project.** Work in the project. Project control and project management.		X	Computer classroom	NO		1,6	
8	15	**Software size metrics.** Exercises	X		Classroom	NO	Development or customization of a Corporative software product development following the guidelines specified in previous sessions. Control Meeting	1,6	7
8	16	**Applying software metrics to the proposed corporate system.**		X	Computer classroom	NO		1,6	
9	17	**Defects in the development of Corporate Software. Maintanance.** Introduction to the concept of defect. The defect management. Cost of the defects. Importance of early detection. The Test Plan. Types of tests	X		Classroom	NO	Development or customization of a Corporative software product development following the guidelines specified in previous sessions. Control Meeting (Continuous Assessment)	1,6	7
9	18	**Defect detection tools.** The process of detection. Methods and techniques of detection. Tools. Test planning.		X	Computer classroom	NO		1,6	
10	19	**Systems deployment. Change Management.** Deploying the corporate information system and managing the changes in the corporation.			Classroom	NO	Development or customization of a Corporative software product development following the guidelines specified in previous	1,6	7

			X				sessions.		
10	20	**Work Project.** Work in the project. Deployment plan. Control meeting.		X	Computer classroom	NO	Control Meeting	1,6	
11	21	**Audit.** The audit process as an integral part of corporate software development. The audit team. The audit reports. External audit.	X		Classroom	NO	Development or customization of a Corporative software product development following the guidelines specified in previous sessions. Conduct tests on the corporate software.	1,6	7
11	22	**Work Project.** Work in the project. Project management and control. Control meeting.		X	Computer classroom	NO		1,6	
12	23	**Audits.** Definition and implementation of an audit.	X		Classroom	NO	Preparation of the final work of the subject. Each group will produce a report containing all information relating to the software project, with particular emphasis on corporate and organizational aspects. Integration of Modules **Audit (Continuous Assesment)**	1,6	5
12	24	Integration of modules.		X	Computer classroom	YES		1,6	
13	25	Conclusions	X		Classroom	NO	(Continue) Preparation of the final work of the subject. Each group will produce a report containing all information relating to the software project, with particular emphasis on corporate and organizational aspects. Integration of Modules	1,6	5
13	26	Work in project. Documentation.		X	Computer classroom	NO		1,6	
14	27	Work in project. Documentation.	X		Classroom	NO	P2: Finish the final work. **(Continuous assessment)**	1,6	5
14	28	Work in project. Documentation.		X	Computer classroom	NO		1,6	
	29	Work in Project. Documentation.	X		Classroom	NO		1,66	
								48,33	**86**

Total 1 *(Hours of class plus student homework hours between weeks 1-14)*	134,33

15		Tutorials, handing in, etc						3	
16		Assessment						3	14
17									
18									
							Subtotal 2	**6**	**14**

Total 2 *(Hours of class plus student homework hours between weeks 15-18)*	20

TOTAL *(Total 1 + Total 2)*	**154,33**