



FICHA MEMORIA DOCENTE

Curso Académico 2006/07

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CODE	3104	COURSE NAME/TITLE	Informatics						
DEGREE	Agricultural, forestry, engineering and food technology					TYPE	Optative		
ORIENTATION	All								
ESTUDIES PROGRAM	1999	CYCLE	1	COURSE	1	SEMESTER	A	FOUR-MONTH PERIOD	September December

DEPARTMENT ⁽¹⁾	Applied Mathematics								
AREA ⁽¹⁾	Applied Mathematics								
COURSE COORDINATOR ⁽¹⁾	Félix Martínez Giménez								
TEACHING STAFF	José Marín Mateos-Aparicio Félix Martínez Giménez José Mas Marí								

⁽¹⁾ En el caso de haber **más de un departamento ó área** que imparta docencia en la asignatura, rellenar **una ficha para cada uno de ellos y una conjuntamente firmada por los responsables y directores de todos ellos.**

TOTAL CREDITS:	4.5			
TOTAL THEORY	2.25	TOTAL PRACTICE	2.25	
T. AULA (TA) CLASSROOM	2.25	P. AULA (PA) CLASSROOM		
T. SEMINARIO(TS) SEMINAR		P. INFORMATICA ⁽³⁾ (PI) LABORATORY	2.25	<small>COLLEGE</small> <small>DEPT.</small>
T. TUTORIZADA ⁽²⁾ (TT) TUTORIALS		P.LABORATORIO LABORATORY PRACTICE		
		P. CAMPO FIELD WORK		
		P. TUTORIZADA ⁽²⁾ (PT) TUTORIALS		

⁽²⁾ Únicamente en el caso de asignaturas con actividades programa de innovación educativa y convergencia europea (PAEEES)

⁽³⁾ Especificar si los créditos se imparte en aulas de la Escuela o del Departamento

Valencia, a 3 de abril de 2006

Fdo. Alfredo Peris Manguillot Director departamento	Fdo. Félix Martínez Giménez Profesor responsable	Fdo. Firmas del profesor/es responsable y del Director/es del Departamento
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«ASI» «NOMASI»

«DEP»/ «v_dptos»
«v_areas»

COURSE TITLE: Informatics

OBJECTIVES

The main objectives for this course are:

- (i) to give a general view of the main aspects (mainly practice aspects) of the scientific field known as informatics.
- (ii) to show the computer resources that the UPV have for the use of the students during their studies in this university.
- (iii) introduction to programming.

The first and second objective include a vague description of computer fundamentals and also a close-up of the students to different software levels as operating systems, and also applications as word processors, spreadsheets, databases, etc.

It is also a main objective to introduce the student to the use of modern technologies, mainly internet.

The third objective pretend to set easy and basic ideas about computer programming. For this part we will use the mathematical environment MATLAB.

EVALUATION

The final mark is obtained from the final (open books) exam and from laboratory marks. The weight of the exam mark is 75%, and the weight of the laboratory mark is 25%.

All questions in the exam are evaluated according to the topic level and the final result.

The marks of the Lab Topics will be maintained for the second exam if necessary.



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CONTENTS: THEORY

1. Introduction to informatics
2. The operating system (Windows)
3. Word processors (Word)
4. Spreadsheets (Excel)
5. Internet
6. Web pages with HTML (FrontPage)
7. Graphic presentations (PowerPoint)
8. Databases (Access)
9. Introduction to MATLAB
10. Introduction to computer programming



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CONTENTS: PRACTICE

1. Lab: Introduction to informatics. Windows operating system.
2. Lab: Word processor WORD I.
3. Lab: Word processor WORD II.
4. Lab: Spreadsheet EXCEL I.
5. Lab: Spreadsheet EXCEL II.
6. Lab: INTERNET.
7. Lab: Creating a web page with HTML using FrontPage
8. Lab: Creating a graphic presentation using PowerPoint .
9. Lab: Database ACCESS I.
10. Lab: Database ACCESS II.
11. Lab: Introduction to MATLAB.
12. Lab: Introduction to programming in MATLAB.



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RECOMMENDED BIBLIOGRAPHY

There are no required books for this course but if you want to go forward in the use of Windows, Word, Excel, PowerPoint, FrontPage and Access any book named something like “User guide for ...”, “Learning ...”, “.... for beginners”, “..... for dummies”, etc will be ok.

For Internet and MATLAB you may use:

- The complete guide to using and understanding the internet. Linda Bird, Prentice-Hall, 2004.
- Introduction to MATLAB for engineers. William J. Palm. McGraw-Hill, 1998