

ENGINEERING COMPUTATION

Fall 2010

General Information

Course outline: Numerical analysis.

Instructors: Prof. Amparo Gil
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Prof. Jaime Puig-Pey
Depto. Matemática Aplicada y Ciencias de la Computación.
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Lectures: Thursday-Friday, 9:30-11:30,
Room UC-Cornell.

Computer sessions: Tuesday, 13:00-14:00
Computer Lab of the Depto. Matemática Aplicada y Ciencias de la Computación.

Office hours: by appointment via e-mail (amparo.gil@unican.es).

Course computer framework: PC computers (Windows XP); MATLAB, EXCEL

Textbook: *Numerical Methods for Engineers*
by Chapra & Canale.

Several copies of the textbook are available at the Escuela de Caminos' Library.

Reading: Students are expected to read the chapters listed in the course schedule **prior** to each lecture.

Homework: Homework assignments will be posted regularly (see below):

Exams: There will be two preliminary exams and one final exam.

Course schedule: Detailed course schedule with deadlines for the assignments will be found here.

Material:	Lectures	Docs for the Comput. Sessions	Problem Sets/Homework assignement
	Material for the first part of the course can be found at Prof. Jaime Puig-Pey's web page.	<u>Computer Assig. 3</u>	<u>Problem Set 3</u>
	<u>Lecture 1</u>	<u>Computer Assig. 4</u>	<u>Problem Set 4</u>
	<u>Lecture 2</u>	<u>Computer Assig. 5</u>	
	<u>Lectures ODEs</u>	<u>Computer Assig. 6</u>	
	<u>LecturesBVPandEDPs</u>	<u>Computer Assig. 7</u>	
		<u>Computer Assig. 8</u>	

Final grade contributions: The final grade will be calculated based on contributions given below

Computer Assignments (CA)	20%
Final grades:	
2 Preliminary exams	40%
Final Exam	20%
Attendance & participation & various	20%