



Universidad
Politécnica
de Cartagena | Campus
de Excelencia
Internacional

LaTeX, a scientific document preparation system

**Transversal Activities of Doctorate
Universidad Politécnica de Cartagena
Academic year: 2016-2017**

1. General course information

Name	LaTeX, a scientific document preparation system		
Level	Doctorate		
Code	2016-2017		
University	Universidad Politécnica de Cartagena		
Language	Spanish and English		
ECTS	1	hours / ECTS	10
			Total hours 30

2. Lecture data

Lecturer in charge	Carlos Angosto Hernández		
Department	Departamento de Matemática Aplicada y Estadística		
Knowledge area	Functional Analysis		
Office location	Escuela de Civil/Navales 2.07		
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Office hours			

3. Course objectives

LaTeX is a high-quality typesetting system; it includes features designed for the production of technical and scientific documentation. LaTeX is the de facto standard for the communication and publication of scientific documents. The student should be able to do at least the following:

1. Format an article or book in a correct and structured manner, and using fonts other than the default ones.
2. Be familiar with the tools for producing bibliography and indexes.
3. Include graphics files in the document Produce professional-looking PDF documents.

4. Theory programme

1. Introduction to LaTeX. Simple examples, structuring, crossreferencing, footnotes.
2. Basic tools for formatting text. Changing fonts, creating lists, paragraph justification, creating tables.
3. Bibliography and indexes.
4. Mathematical formulas. Using mathematical mode, simple mathematical formulas, changing mathematical style, mathematical symbols, alignments.

5. Practical programme

The theoretical programme is the same that the practical programme:

1. Introduction to LaTeX. Simple examples, structuring, crossreferencing, footnotes.
2. Basic tools for formatting text. Changing fonts, creating lists, paragraph justification, creating tables.

3. Bibliography and indexes.

4. Mathematical formulas. Using mathematical mode, simple mathematical formulas, changing mathematical style, mathematical symbols, alignments.

6. Hours distribution

Activity	Location	Student work	Hours
Theory programme	To be announced.	Attend class	4
		Homework: study of the theory contents	5
Practice	To be announced.	Attend class	6
		Homework:	14
Tutoring	Virtual	Virtual ...	1
			30