



Universidad  
Politécnica  
de Cartagena | Campus  
de Excelencia  
Internacional

# **How to prepare LaTeX presentations: The Beamer package**

## **Cómo preparar presentaciones en LaTeX: El paquete Beamer**

**Actividades Transversales de Doctorado  
Universidad Politécnica de Cartagena  
Curso 2020/21**

1. Información general de la actividad /General course information					
Nombre/ Name	How to prepare LaTeX presentations: The Beamer package				
Nivel /Level	Doctorado				
Modalidad de impartición / Teaching mode	Online/In person				
Lengua impartición/ Language	Español/English				
ECTS	1	hours / ECTS	30	Total hours	30

2. Datos del profesorado / Lecture data			
Profesor /Lecturer in charge	Juan Ruiz Álvarez		
Departamento o Servicio/ Department/Service	Departamento de Matemática Aplicada y Estadística		
Area de conocimiento /Knowledge area	Matemática Aplicada/Applied Mathematics		
Despacho /Office location	Escuela de Civil/Navales 2.07		
Teléfono /Telephone	968325528	email	<a href="mailto:juan.ruiz@upct.es">juan.ruiz@upct.es</a>
URL / WEB	<a href="https://personas.upct.es/perfil/juan.ruiz">https://personas.upct.es/perfil/juan.ruiz</a>		
Horario de Atención /Office hours	Disponible en: <a href="https://personas.upct.es/perfil/juan.ruiz#docencia">https://personas.upct.es/perfil/juan.ruiz#docencia</a> Available at: <a href="https://personas.upct.es/perfil/juan.ruiz#docencia">https://personas.upct.es/perfil/juan.ruiz#docencia</a>		

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<b>3. Fechas por edición / Dates</b>	
<b>1ª edición / 1st edition-</b>	<p>En modalidad online se puede cursar durante todo el curso con una evaluación a principios de junio y otra en septiembre.</p> <p>En modalidad presencial se impartirá en mayo de 2021 en una fecha acordada previamente con los alumnos que quieran seguir el curso de esta manera.</p> <p>The subject will be available the whole course in online mode with one assessment at the beginning of June and another one in September. In person, the classes will be taught in May 2021, at a time suitable for all the students.</p>
<b>Fecha/Date</b>	<p>Mayo 2021 May 2021</p>
<b>Horario/Hours</b>	<p>Se anunciará en febrero-mayo de 2021. To be announced.</p>
<b>2ª edición / 2nd edition</b>	
<b>Fecha/Date</b>	
<b>Horario/Hours</b>	
<b>3ª edición / 3rd edition-</b>	
<b>Fecha/Date</b>	
<b>Horario/Hours</b>	

(añadir o eliminar tantas ediciones se haga. Si la docencia es continua a lo largo del curso se indicará solo en la 1ª edición)

<b>4. Objetivos del curso/Course objectives</b>
<p>LaTeX is the standard typesetting system in scientific environments. The Beamer package provides the ability to create interactive presentations using LaTeX. This course is intended to be a complement of the LaTeX course also offered by the UPCT and is oriented to those students interested in exploring the possibilities that LaTeX provides for research activities. The students should be able to acquire the following competences once the course is finished:</p> <ol style="list-style-type: none"> <li>1. Be able to create a presentation for talks or congresses using LaTeX.</li> <li>2. Be able to create simple graphs to include in the presentation.</li> <li>3. Be able to create tables and to include images or multimedia content in the presentation.</li> <li>4. Be able to create a poster for a congress using LaTeX.</li> </ol>

## **5. Contenidos teóricos / Theory programme**

1. Introduction to the Beamer package: First examples.
2. Document Structure: Title page and information. Table of contents. Sections and Subsections. References.
3. Style: Themes.
4. Multimedia: Including tables, graphs, images and other stuff.
5. Creating a presentation from scratch.
6. Creating a poster from scratch.

## **6. Contenidos prácticos / Practical programme**

The practical programme follows the same structure as the theoretical one.

## **7. Sistema de evaluación/ System of evaluation**

Students will be assessed through classroom exercises and assignments. The assignments will consist in writing parts of a Beamer presentation and a poster that the students will have to present to the rest of the class at the end of the course.

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## 8. Distribución horaria de los contenidos, incluyendo las tareas de los alumnos / Hours distribution

Activity	Location	Hours
Attend class. (In online mode, this part can be replaced by following the online course).	Computer room Escuela de Civil/Navales UPCT.	4
Homework: study of the theoretical contents.		5
Practice. (In online mode, this part can be replaced by following the online course).	Computer room Escuela de Civil/Navales UPCT.	6
Homework: Prepare a Beamer presentation and a Poster		15
		<b>30</b>