



Universidad
Politécnica
de Cartagena | Campus
de Excelencia
Internacional

How to prepare LaTeX presentations and posters: The Beamer package

Cómo preparar presentaciones y posters en LaTeX: El paquete Beamer

**Actividades Transversales de Doctorado
Universidad Politécnica de Cartagena
Curso 2023/24**

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/Streaming/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 Juan Carlos Trillo Moya	
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 (Juan Ruiz) Escuela de Civil/Navales 2.02 (Juan Carlos Trillo)	
Teléfono /Telephone		968325528 (Juan Ruiz) 968325584 (Juan Carlos Trillo)	email juan.ruiz@upct.es jc.trillo@upct.es
URL / WEB		https://personas.upct.es/perfil/juan.ruiz	
Horario de Atención /Office hours		Disponible en: https://personas.upct.es/perfil/juan.ruiz#docencia https://personas.upct.es/perfil/jc.trillo#docencia Available at: https://personas.upct.es/perfil/juan.ruiz#docencia https://personas.upct.es/perfil/jc.trillo#docencia	

3. Fechas por edición / Dates	
1ª edición / 1st edition-	Online
Fecha/Date	01/11/2023-31/01/2024
Horario/Hours	
2ª edición / 2nd edition	Online-Streaming-In person
Fecha/Date	01/02/2024-30/04/2024
Horario/Hours	En modalidad presencial se impartirá en febrero-abril de 2023 en una fecha acordada previamente con los alumnos que quieran seguir el curso en modo presencial. El horario se anunciará en febrero de 2023 In person, the classes will be taught in February-May 2023, at a time suitable for all the students.
3ª edición / 3rd edition-	Online
Fecha/Date	01/05/2024-30/06/2024
Horario/Hours	

4. Objetivos del curso/Course objectives
LaTeX is the standard typesetting system in scientific environments. The Beamer package provides the ability to create interactive presentations using LaTeX. Although the course is self-contained, it 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: 1. Be able to create a presentation for talks or congresses using LaTeX. 2. Be able to create simple graphs to include in the presentation. 3. Be able to create tables and to include images or multimedia content in the presentation. 4. Be able to create a poster for a congress using LaTeX.

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.

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./ Streaming.	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./Streaming	6
Homework: Prepare a Beamer presentation and a Poster		15
		30