



Universidad
Politécnica
de Cartagena

Campus
de Excelencia
Internacional



HOW TO DESIGN A GOOD RESEARCH PLAN

Actividades Transversales de Doctorado
Universidad Politécnica de Cartagena

1. General course information					
Name	How to Design a Good Research Plan / Cómo diseñar un buen plan de investigación				
Level	Doctorado				
Academic Year	2019-2020				
University	Universidad Politécnica de Cartagena				
Language	Español				
ECTS	1	hours / ECTS	30	Total hours	30

2. Lecture data			
Lecturer in charge	Juan Suardíaz Muro		
Department/Service	Electronics Technology		
Knowledge area	Electronics Technology		
Office location			
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Office hours			

3. Dates	
	On line

4. Course objectives
<p>Royal Decree 99/2011, of January 28th, which regulates the official teaching of a doctorate in Spain, imposes that, prior to the end of the first year, a PhD student will prepare a research plan, endorsed by the tutor and the director of his or her work.</p> <p>The objective of this transversal activity is to analyse and study the different parts that constitute a research plan, as well as the methodologies and tools, in order to acquire the competencies recommended for a proper design and redaction of this document.</p>

5. Theory programme

1. The concept of scientific research. Characteristics of scientific research.
2. The scientific method. Types of research methods.
3. Legal framework of research in Spain. Royal decree 99/2011.
4. The research plan document. Recommended structure
5. Setting the Theoretical Framework.
6. Setting the Methodological Framework.
7. Working Plan.

6. Practical programme

1. Introduction to ORCID and the Research ID.
2. Searching Tools for writing the Theoretical Framework.
3. Tools for designing a working plan. Gantt diagrams.

7. Hours distribution

Activity	Location	Student work	Hours
Theory programme	Virtual	Attend Virtual class	7
		Homework: study of the theory contents	7
Practice	Virtual	Attend Virtual Practice	3
		Homework: practical problems resolution	10
Tutoring	Virtual	Virtual	3
			30

8. System of evaluation

Intermediate work (10%): Working reports
Final Work (90%): A proposal of research plan will be reported and presented by each student.