



Universidad  
Politécnica  
de Cartagena

Campus  
de Excelencia  
Internacional

# OPEN RESEARCH DATA AND DATA MANAGEMENT PLANS



Research and Innovation



**Transversal Activities of Doctorate**  
**Universidad Politécnica de Cartagena**

1. General course information			
<b>Name</b>	Open Research Data and Data Management Plans		
<b>Level</b>	Doctorate		
<b>Code</b>	300001027		
<b>University</b>	Universidad Politécnica de Cartagena		
<b>Language</b>	English		
<b>ECTS</b>	1	<b>hours / ECTS</b>	10
			<b>Total hours</b>
			30

2. Lecture data			
<b>Lecturer in charge</b>	RAÚL ZORNOZA BELMONTE		
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### 3. Course objectives

The main objective of this course is to show students how to make their research data findable, accessible, interoperable and reusable (FAIR), to ensure it is soundly managed, a requisite from the European Union. Good research data management is the key conduit leading to knowledge discovery and innovation, and to subsequent data and knowledge integration and reuse.

The research programs from the European Commission, and soon also from Spanish State, aim to improve and maximize access to and re-use of research data generated by projects and takes into account the need to balance openness and protection of scientific information, commercialization and Intellectual Property Rights. Every researcher should know how to manage the generated research data and how to make it accessible and available, or to protect it when needed.

### 4. Theory programme

Unit 1. Why to manage our research data. The FAIR concept (findable, accessible, interoperable and reusable data)

Unit 2. Data Management Plan. Identification of types of data we can generate. Content of the Plan. Online resources to write a Data Management Plan.

Unit 3. Public and free repositories to make our data FAIR. Database search engines.

### 5. Practical programme

1. Identify the data you will generate in your research.
2. Use the online platform DPMonline to learn how to make Data Management Plans.
3. Select the most suitable repository to make your data FAIR.

### 6. Hours distribution

Activity	Location	Student work	Hours
Theory programme	On-line	Theory contents	5
		Study of the theory contents	10
Practice	On-line	Practice exercises	5
		Resolution of practice exercises	6
Tutoring	Virtual	Virtual	4
			<b>30</b>