

# RESEARCH DATA MANAGEMENT

LEVEL EQF6  EQF7  EQF8


ECTS	2
LA Aims	The aim of this course is to provide students with the skills needed to manage the research data of a research project, taking into account the data policy of an institution.
Learning Goals	Upon completion of this LA students are expected to: <ol style="list-style-type: none"> <li>I. Learn the fundamentals of the Data Lifecycle</li> <li>II. Understand the FAIR principles</li> <li>III. Acquire the skills to write a Data Management Plan. At institutional and European level.</li> <li>IV. Identify sensitive data in your datasets and manage it.</li> </ol>
Selected Learning Outcomes	Upon the completion of this LA, students will be able: <ul style="list-style-type: none"> <li>● to manage the research data generated in projects,</li> <li>● to write a Data Management Plan and</li> <li>● to understand the data policy defined by an institution.</li> </ul>

## Main characteristics of the LA

Format	The format of the course will be blended. <ul style="list-style-type: none"> <li>● Theoretical lessons will be resources published for the community.</li> <li>● Use cases will be lectures given by invited speakers by online.</li> <li>● The practical exercises will be a face to face activity.</li> </ul>
Pedagogical methods/tools:	Presentations, lectures and group exercises
Assessment methods:	Each theoretical lesson will have a short questionnaire to assess the knowledge acquired by the student. The practical exercises will be evaluated based on the quality of the work presented and in the oral presentation. Also, the participation of the student (making questions) during the other students' presentations will be taken into account.
Evaluation:	The student will be evaluated based on quantitative and qualitative metrics. The practical exercises will be evaluated based on public rubrics.
LA Leader	<b>UPM</b>
LA Participants	<b>UNIBO</b>



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## Course Description

Learning Goal	Learning model	Time
<b>Introduction to Research Data Management: Data Life Cycle.</b>		<b>1 hour</b>
<i>Students learn the role of data in the research process and in research projects.</i>	Lectures: Esteban González - UPM	10 min
<i>Understand the different research artifacts (datasets, software, publications, etc.) involved in a research.</i>	Lectures: Esteban González - UPM	15 min
<i>Comprehend the evolution of the data in a research project, from raw data to processed data.</i>	Lectures: Esteban González - UPM	25 min
<i>Discussion with students about the data managed in their thesis.</i>	Case discussion	10 min
<b>Introduction to FAIR principles.</b>		<b>1 hour</b>
<i>Reason why FAIR data is important and its role in Europe.</i>	Lectures: Silvio Peroni UniBO	10 min
<i>Understand each principle of the FAIR data. We will analyze each principle and its meaning.</i>	Lectures: Silvio Peroni UniBO	30 min
<i>Know the reference paper about FAIR data. Students will have to read the paper before the session.</i>	Case discussion	10 min
<i>Discussion with students about how they can apply FAIR principles in their thesis and the value to do it.</i>	Case discussion	10 min
<b>Ethical and legal considerations.</b> <ul style="list-style-type: none"> <li>● <i>Students will understand the ethical and legal aspects of the data and how to manage them. This will include the different licences used for data.</i></li> <li>● <i>Students will learn how to handle sensitive data.</i></li> </ul>		<b>2 hours</b>
<i>Understand what is a license and why is important. Students will learn the different parts of a license.</i>	Lectures: Victor Rodriguez - UPM	10 min

Identify the main licenses used in researching both open and private.	Lectures: Victor Rodriguez - UPM	20 min
Apply a license to your work. Students will analyze their data and will select a license to apply them.	Lecture, case discussion: Victor Rodriguez - UPM	20 min
Identify any kind of sensitive data present in your research. Different representative cases will be exposed. For example: personal data, protected species, etc.	Lectures: Victor Rodriguez - UPM	30 min
Understand the main points in the GDPR and learn how to manage them	Lectures: Victor Rodriguez - UPM	20 min
Apply the GDPR to the data generated in their research	Case discussion	20 min
<b>Practical exercise: Amnesia.</b> <ul style="list-style-type: none"> <li>In this unit, students will learn how to use the tool Amnesia, from OpenAire, to anonymize sensitive data.</li> </ul>		<b>2 hours</b>
Acquire the skills to use tools like AMNESIA. We will use a video created by the OpenAIRE team.	Video ( <a href="https://www.youtube.com/watch?v=0lo6c1MPOY">https://www.youtube.com/watch?v=0lo6c1MPOY</a> )	60 min
Apply pseudonymization techniques to their data using the tool AMNESIA.	Case discussion	60 min
<b>Data publication &amp; Metadata standards.</b> <ul style="list-style-type: none"> <li>Students will learn how to share and publish their data, following the most popular standards.</li> </ul>		<b>1 hour</b>
Understand what is metadata	Lectures: Esteban González - UPM	5 min
Understand what is a schema and the most popular (DCAT, Dublin Core, etc .)	Lectures: Esteban González - UPM	55 min
<b>Practical exercise: Zenodo</b> <ul style="list-style-type: none"> <li>In this unit, students will learn how to share and publish their data in Zenodo, a general-purpose repository.</li> </ul>		<b>2 hours</b>

<i>Learn how to use a repository as Zenodo to publish your research. We will use a video created by the OpenAIRE team.</i>	Video ( <a href="https://www.youtube.com/watch?v=yj2r8RaylX8">https://www.youtube.com/watch?v=yj2r8RaylX8</a> )	60 min
<i>Identify repositories where you can publish your data and how to do it (metadata that should be completed to be FAIR).</i>	Case discussion	60 min
<b>Introduction to a Data Management Plan.</b> <ul style="list-style-type: none"> <li><i>In this lesson, the different sections of a DMP will be described.</i></li> </ul>		<b>1 hour</b>
<i>Understand the different sections of a DMP. We will focus on the template used for European projects (Horizon).</i>	Lectures: Esteban González - UPM	60 min
<b>Practical exercise: Argos.</b> <ul style="list-style-type: none"> <li><i>Students will see a real implementation of a Data Management Plan. The tool Argos (OpenAIRE) will be used during the exercise.</i></li> </ul>		<b>2 hours</b>
<i>Learn how to use the tool Argos to create DMPs. We will use a video created by the OpenAIRE team.</i>	Video ( <a href="https://www.youtube.com/watch?v=xOdcmandj4">https://www.youtube.com/watch?v=xOdcmandj4</a> )	60 min
<i>Students will know representative use cases of DMPs (different domains). These examples will help them to create a DMP for their data.</i>	Lecture, case discussion: Esteban González - UPM	60 min
<b>Practical exercise.</b> <ul style="list-style-type: none"> <li><i>Students will be divided in groups and they will have to create a Data Management Plan. After this, students will have to present their work to the other students.</i></li> </ul>	(2 hours of team work + 2 hours presentations depending on the number of groups)	<b>4 hours</b>
<i>Learn how to write a DMP. The students will be grouped in teams and they will work in a real case.</i>	Practical exercise	120 min
<i>Students will present their DMP, where the other students will have to identify potential problems.</i>	Case discussion	120 min

### Teaching materials

- Presentations + notes for theoretical lessons
- Teamwork material for practical exercises

#### Questionnaires

All the PowerPoint material used for the lecture will be made available to the students at the dedicated website

<https://drive.google.com/drive/u/0/folders/1kn8jaQbqbw5sE1W3IB6JE9niQAVinPoH> (the folder will be populated during the piloting of the courses)

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# RESEARCH DATA POLICY

LEVEL EQF6  EQF7  EQF8

ECTS	2
LA Aims	The aim of this course is to provide students with the skills needed to define and to implement the data policies of an institution.
Learning Goals	Upon the completion of this LA, students will be able to understand and to define the data policy of an institution.
Selected Learning Outcomes	<p>Upon the completion of this LA, students will be able:</p> <ul style="list-style-type: none"> <li>● to define and implement a data policy for an institution, including:           <ul style="list-style-type: none"> <li>▪ FAIR principles</li> <li>▪ Licences</li> <li>▪ Infrastructure needed (repositories &amp; human resources)</li> <li>▪ Data Management Plan</li> <li>▪ Personal &amp; Sensitive data</li> </ul> </li> </ul>

## Main characteristics of the LA

Format	<p>The format of the course will be blended.</p> <ul style="list-style-type: none"> <li>● Theoretical lessons will be resources published for the community.</li> <li>● Use cases will be lectures given by invited speakers by online.</li> <li>● The practical exercises will be a face-to-face activity.</li> </ul>
Pedagogical methods/tools:	Presentations, lectures and group exercises
Assessment methods:	<p>Each theoretical lesson will have a short questionnaire to assess the knowledge acquired by the student.</p> <p>The practical exercises (DMP and data policy) will be evaluated based on the quality of the work and the oral presentation. Also, the student participation (making questions) during the other students' presentations will be taken into account.</p>
Evaluation:	<p>The student will be evaluated based on quantitative and qualitative metrics.</p> <p>The practical exercises will be evaluated based on public rubrics.</p>
LA Leader	<b>UPM</b>
LA Participants	<b>UNIBO</b>



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## Course Description

Learning Goal	Learning model	Time (minutes)
<b>Introduction to Research Data Management: Data Life Cycle.</b> <ul style="list-style-type: none"> <li>Brief introduction to research data life cycle, which stages must be defined in the data policy</li> </ul>		<b>1 hour</b>
<i>The role of data in the research process and in research projects.</i>	Lectures: Esteban González - UPM	10 min
<i>Understand the different research artifacts (datasets, software, publications, etc.) involved in a research.</i>	1 Lectures: Esteban González - UPM	15 min
<i>Comprehend the evolution of the data in a research project, from raw data to processed data.</i>	Lectures: Esteban González - UPM	25 min
<i>Discussion with students about the data managed in their thesis.</i>	Case discussion	10 min
<b>Open &amp; Private data.</b> <ul style="list-style-type: none"> <li>The students will learn the difference between the two models, and how to implement them in a research environment. We will focus on FAIR principles and the main licences used for both sharing policies.</li> </ul>		<b>1 hour</b>
<i>Understand each principle of the FAIR data.</i>	Lectures: Victor Rodriguez - UPM	20 min
<i>Identify the main licenses used in researching both open and private.</i>	Lectures: Victor Rodriguez - UPM	20 min
<i>Understand the main points in the GDPR and learn how to manage them</i>	Lectures: Victor Rodriguez - UPM	20 min
<b>Main data infrastructures elements in an organisation.</b> <ul style="list-style-type: none"> <li>The student will learn what is a data repository, a data management plan tool, a data storage service, etc.</li> </ul>		<b>1 hour</b>

<i>Understand what is a data repository and the different policies applied to publish on it. We analyze concepts like metadata schemas and persistent identifiers.</i>	Lectures: Esteban González - UPM	30 min
<i>Understand what is a data management plan and the tools that can be used to create it</i>	Lectures: Esteban González - UPM	30 min
<b>Use case: Institutional and European data infrastructures.</b> <ul style="list-style-type: none"> <li><i>In this unit, we present a representative collection of data infrastructures based on partners' institutions infrastructures and European as EOSC services.</i></li> </ul>		<b>2 hours</b>
<i>Analyze the data infrastructures of students' institutions</i>	Case discussion	50 min
<i>Identify EOSC data tools such as Zenodo, Argos, B2Share, Amnesia, B2Handle, AMNESIA, etc .</i>	Lectures: Esteban González - UPM	50 min
<i>Learn how EOSC tools can be adopted in the students' institutions</i>	Case discussion	20 min
<b>Introduction to Data Governance.</b> <ul style="list-style-type: none"> <li><i>Students will learn the main aspects of an institutional data policy, which includes how the data is gathered, stored, processed, etc.</i></li> </ul>		<b>1 hour</b>
<i>Learn the different sections of a data policy. It includes, where data can be published, how to manage the GDPR, where and how private data can be stored, etc.</i>	Lectures: Esteban González - UPM	60 min
<b>Roles and Responsibilities of a data stewardship organisation.</b> <ul style="list-style-type: none"> <li><i>This unit will show how to create a data stewardship and how to integrate it in the institution's structure. Also, we analyse the different roles of a data steward.</i></li> </ul>		<b>1 hour</b>

<i>Learn how data managers are structured in different organizations.</i>	Lectures: Esteban González - UPM	20 min
<i>Learn the functions of data stewardship.</i>	Lectures: Esteban González - UPM	20 min
<i>Learn how to acquire the skills to be a data stewardship.</i>	Lectures: Esteban González - UPM	20 min
<b>Data governance tools.</b> <ul style="list-style-type: none"> <li><i>In this unit, students will learn the use of some tools to communicate the data policies to the staff. This includes websites, communication plans, training courses, networking and roadmaps.</i></li> </ul>		<b>2 hours</b>
<i>Understand the different tools the use of some tools to communicate the data policies to the staff.</i>	Lectures: Esteban González - UPM	15 min
<i>Learn how to structure a website to show the data policies to researchers.</i>	Lectures: Esteban González - UPM	15 min
<i>Define a communication plan to assure that researchers know the data policy.</i>	Lectures: Esteban González - UPM	15 min
<i>Learn how to prepare training courses for researchers</i>	Lectures: Esteban González - UPM	15 min
<i>Define a roadmap to apply data policies in a research infrastructure</i>	Lectures: Esteban González - UPM	60 min
<b>Data policies use cases.</b> <ul style="list-style-type: none"> <li><i>In this unit, we will analyse the different data policies defined in several institutions.</i></li> </ul>		<b>2 hours</b>
<i>Know the data policies landscape in europe. We will focus on universities and research facilities.</i>	Lectures: Esteban González - UPM	60 min
<i>Comprehend the data policies implemented in students' institutions</i>	Case discussion	60 min
<b>Practical exercise.</b> <ul style="list-style-type: none"> <li><i>Students will be divided in groups and they will have to elaborate a data policy for a research institution. They will present the work to the other students</i></li> </ul>	(2 hours of team work + 2 hours presentations depending on the number of the group)	<b>4 hours</b>

<i>Learn how to write a data policy document. The students will be grouped in groups and they will work in a real case</i>	Practical exercise	120 min
<i>Students will present their data policies, where the other students will have to identify potential problems.</i>	Case discussion	120 min

### Teaching Materials

All the PowerPoint material used for the lecture will be made available to the students at the dedicated website <https://drive.google.com/drive/u/0/folders/1kn8iaQgbw5sE1W3IB6IE9niQAVinPoH> (the folder will be populated during the piloting of the courses)

### Bibliography/Sitography/Videos

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