



# Lesson plan

<b>Subject of the lesson</b>	Computer systems		
<b>Name of education</b>	Cross-Platform software development		
<b>Name of the course</b>	File systems of Operating systems.		
<b>Duration of course</b>	2 hours		
<b>Learning objectives</b>	<ol style="list-style-type: none"> <li>1. Knowing the file system of an operating system.</li> <li>2. Introducing directories structure of an operating system.</li> <li>3. Learning to work with absolute and relative pathnames.</li> <li>4. Managing files and folders using the operating system terminal.</li> <li>5. Knowing some commands of the operating system terminal.</li> </ol>		
<b>Initial situation</b>	<ul style="list-style-type: none"> <li>- Students are all of them 18 and older and they are in the 2<sup>nd</sup> month of the 1<sup>st</sup> year of this education.</li> <li>- Students have attended to some sessions about operating systems, and they are now learning about its basic components.</li> <li>- They know now the basic components of an operating system, but they don't know how they manage to carry out their main functions.</li> <li>- In this lesson they will learn in depth the file system component, and they will get to work with its main structures, whose handling is essential in their professional future.</li> </ul>		
<b>Time</b>	<b>Learning objectives</b>	<b>Learning activity</b>	<b>Learning sources</b>
<b>Start</b> 20 minutes	<p>Students know what the lesson is about.</p> <p>Students know why the file system is so important.</p> <p>Students know how the files and folders are organised in a storage unit.</p> <p>Students know what is the terminal and why it is important to use it.</p>	<p>Showing the videos:</p> <ul style="list-style-type: none"> <li>- El sistema de ficheros.</li> <li>- El terminal o consola de un sistema operativo.</li> </ul> <p>Student try to identify the storage units that their computers have.</p> <p>Student access the terminal of the operating systems installed on their computers and try to execute some basic commands.</p>	<p>A computer</p> <p>A conection to the internet</p> <p>The educational platform of the subject</p>

<p><b>Middle</b> 60 minutes</p>	<p>Students learn what a directory tree is and how to create one.</p> <p>Students learn some commands of the operating system terminal.</p> <p>Students learn what kind of pathnames a folder and a file can have.</p> <p>Students learn how to calculate absolute and relative pathnames .</p>	<p>Showing the videotutorial:</p> <ul style="list-style-type: none"> <li>- Rutas absolutas y relativas de archivos y directorios.</li> </ul> <p>Students practise doing some exercises of absolute and relative pathnames proposed.</p>	<p>A computer</p> <p>A conection to the internet</p> <p>The educational platform of the subject</p>
<p><b>End</b> 40 minutes</p>	<p>Students know about directory trees and units.</p> <p>Students work with files and directories pathnames.</p> <p>Students manage terminal commands.</p>	<p>Students share advantages and disadvantages about working with the graphical environment versus working with the terminal.</p> <p>Students do the activity “Rutas absolutas y relativas de los archivos” proposed in the evaluation section and they are graded.</p>	<p>A computer</p> <p>A conection to the internet</p> <p>The educational platform of the subject</p>