

## COURSE DESCRIPTION – ACADEMIC YEAR 2023/2024

<b>Course title</b>	<b>PLM Product Life Cycle Management</b>
<b>Course code</b>	43019
<b>Scientific sector</b>	ING-IND/17
<b>Degree</b>	Bachelor in Industrial and Mechanical Engineering (L-9)
<b>Semester</b>	2
<b>Year</b>	Optional
<b>Credits</b>	4
<b>Modular</b>	No
<b>Total lecturing hours</b>	39 = 24 (Lecture) + 15 (Exercise)
<b>Total lab hours</b>	0
<b>Attendance</b>	not compulsory
<b>Prerequisites</b>	no prerequisites
<b>Course page</b>	Microsoft Teams and <a href="https://ole.unibz.it/">https://ole.unibz.it/</a>
<b>Specific educational objectives</b>	<p>Under Product Lifecycle Management (PLM) refers to a strategic approach to the holistic management of information, processes and resources to support the product life cycle of products and services, from idea management to development to ramp up to series production, and the launch phase of sales and merchandising until the final call back or recycling of the product. PLM is more than a "pure" IT technology, namely an "integrated approach" of technologies, methods, processes and organizational structures.</p> <p>The aim of this course is to provide students with the basics of PLM through case studies and lessons learned from practice.</p>
<b>Lecturer</b>	Vittorio Franzellin <a href="https://www.unibz.it/it/faculties/engineering/academic-staff/person/5189-vittorio-franzellin">https://www.unibz.it/it/faculties/engineering/academic-staff/person/5189-vittorio-franzellin</a>
<b>Contact</b>	vittorio.franzellin@unibz.it 0471 017111
<b>Scientific sector of lecturer</b>	
<b>Teaching language</b>	German
<b>Office hours</b>	on Monday 18.00 to 20.00 via Teams, please check the official calendar. Office hours are posted in advance.
<b>Lecturing Assistant (if any)</b>	No Lecturing Assistant
<b>Contact LA</b>	
<b>Office hours LA</b>	
<b>List of topics</b>	<p>The course covers the following topics:</p> <ul style="list-style-type: none"> <li>● PLM processes and systems</li> <li>● Innovation Management</li> <li>● Product development</li> <li>● (Multi)Project management</li> <li>● CMS Content Management System</li> </ul>

	An extensive course Teaser is available upon request to the Lecturer <a href="mailto:vittorio.franzellin@unibz.it">vittorio.franzellin@unibz.it</a>
<b>Teaching format</b>	Frontal lectures, case study discussions and exercises. Script will be provided by the lecturer.

<b>Learning outcomes</b>	<p>Knowledge and understanding (ILO 1):</p> <ul style="list-style-type: none"> <li>Explain the PLM Essentials (Methods, Process, Technology)</li> </ul> <p>Applying knowledge and understanding (ILO 2):</p> <ul style="list-style-type: none"> <li>Describe the Reasons Why of the modern PLM Solutions</li> </ul> <p>Making judgments (ILO 3):</p> <ul style="list-style-type: none"> <li>Analyze and compare different solutions and requirements of the modern PLM processes and systems</li> </ul> <p>Communication skills (ILO 4):</p> <ul style="list-style-type: none"> <li>Demonstrate relate Techniques and Methods</li> </ul> <p>Learning skills (ILO 5)</p> <ul style="list-style-type: none"> <li>Report case study and lessons learned from practice</li> </ul>
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<b>Assessment</b>	<b>Formative assessment</b>			
	<b>Form</b>	<b>Length /duration</b>	<b>ILOs assessed</b>	
	Workshops Simulations	4 hrs	1,2,3,4,5	
	Case Studies Discussion	Part of the Lecture Techniques	1,2,3,4,5	
	<b>Summative assessment</b>			
	<b>Form</b>	<b>%</b>	<b>Length /duration</b>	<b>ILOs assessed</b>
	Written	100	2,5 hrs	1,2,3,4,5
<b>Assessment language</b>	German			
<b>Assessment Typology</b>	Written Exam, Monocratic commission			
<b>Evaluation criteria and criteria for awarding marks</b>	Exam point structure:		ILOs	
	10 Points	Multiple Choice Questions	1,2,3,4	
	70 Points	Theory Part	1,2,3,4	
	20 Points	Exercise Part	1,2,3,4	
	<b>100 Points</b>	<b>Total Exam points</b>		

<b>Required readings</b>	Course Handbook (Theory and Exercises) provided by the lecturer (synchronously with the progress of the course)
<b>Supplementary readings</b>	No supplementary readings



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Facoltà di Ingegneria  
Faculty of Engineering

**Software used**

No specific software used