Fakultät für Ingenieurwesen
Facoltà di Ingegneria
Faculty of Engineering

COURSE DESCRIPTION – ACADEMIC YEAR 2024/2025

Course title	**PLM Product Life Cycle Management**
Course code	43019
Scientific sector	ING-IND/17
Degree	Bachelor in Industrial and Mechanical Engineering (L-9)
Semester	2
Year	Optional
Credits	4
Modular	No

Total lecturing hours	39 = 24 (Lecture) + 15 (Exercise)
Total lab hours	0
Attendance	not compulsory
Prerequisites	no prerequisites
Course page	Microsoft Teams and https://ole.unibz.it/

Specific educational objectives	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. The aim of this course is to provide students with the basics of PLM through case studies and lessons learned from practice.

Lecturer	Vittorio Franzellin https://www.unibz.it/it/faculties/engineering/academic-staff/person/5189-vittorio-franzellin
Contact	vittorio.franzellin@unibz.it 0471 017111
Scientific sector of lecturer	
Teaching language	German
Office hours	on Monday 18.00 to 20.00 via Teams, please check the official calendar. Office hours are posted in advance.
Lecturing Assistant (if any)	No Lecturing Assistant
Contact LA	
Office hours LA	
List of topics	The course covers the following topics: • PLM processes and systems • Innovation Management • Product development • (Multi)Project management • CMS Content Management System

	An extensive course Teaser is available upon request to the Lecturer vittorio.franzellin@unibz.it
Teaching format	Frontal lectures, case study discussions and exercises. Script will be provided by the lecturer.
Learning outcomes	Knowledge and understanding (ILO 1): • Explain the PLM Essentials (Methods, Process, Technology) Applying knowledge and understanding (ILO 2): • Describe the Reasons Why of the modern PLM Solutions Making judgments (ILO 3): • Analyze and compare different solutions and requirements of the modern PLM processes and systems Communication skills (ILO 4): • Demonstrate relate Techniques and Methods Learning skills (ILO 5) • Report case study and lessons learned from practice

Assessment	**Formative assessment**

Form	Length /duration	ILOs assessed
Workshops Simulations	4 hrs	1,2,3,4,5
Case Studies Discussion	Part of the Lecture Techniques	1,2,3,4,5

Summative assessment

Form	%	Length /duration	ILOs assessed
Written	100	2,5 hrs	1,2,3,4,5

Assessment language	German
Assessment Typology	Written Exam, Monocratic commission
Evaluation criteria and criteria for awarding marks	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 **100 Points** **Total Exam points**
Required readings	Course Handbook (Theory and Exercises) provided by the lecturer (synchronously with the progress of the course)
Supplementary readings	No supplementary readings
Software used	No specific software used