

GENERAL INFORMATION					
Subject name		TR2. Product Lifecycle Management			
Semester	1	Character	Compulsory	Type of module	Transversal
ECTS	3		Modality	On line	
Higher Education Institution(s)			FHJ, ESTIA		
Lecturer(s)			Klaus Zamazal Christophe Merlo		
LEARNING AND TEACHING					
ESCO Occupation(s)		Manufacturing engineer			
ESCO Skill & Competences (*no ESCO)		Define technical requirements Interpret technical requirements Product life-cycle Design thinking Apply strategic thinking PLM as decision support systems			
Learning outcomes (meaning of the acronyms in Annexe 4)		EA2, ED1, ED2, EP6			
Teaching methods		Lectures Case Studies Collaborative and Problem-Based Learning			
Assessment methods		Examinations Short Online quizzes			
CONTENTS					
Previous requirements (if necessary)					
None					
Content index					
1. PLM concept: conceptual, organisational, process-oriented and IT levels <ul style="list-style-type: none">• Product and portfolio management (PPM)• Product design (CAx)• Manufacturing process management (MPM)• Product data management (PDM)					
2. Strategic PLM Approach <ul style="list-style-type: none">• PLM solutions as the backbone of virtual product development• Organizational and methodological prerequisites for the introduction and application of PLM concepts• Digital twin and digital threat• Process Management (Product-, Core-, Support-Processes)• Economic benefits of using PLM concepts					
3. PLM Solutions Integration <ul style="list-style-type: none">• Components and core features of PLM solutions• Technical infrastructure and system functions of PLM solutions• Integration of different product data within IT systems and design solutions for PDM or PLM systems• Implementation of PLM solutions in enterprises					
4. PLM for Engineering processes: Configuration Management activities <ul style="list-style-type: none">• Controlling product definition data: versions/revisions					

- Verification/Validation/certification processes based on CM
- Managing product change request for implementing a new version of a product

5. Case studies

SUPPORTING BIBLIOGRAPHIC REFERENCES

M. Eigner, R. Stelzer: Product Lifecycle Management;
J. Stark: Product Lifecycle Management; A. Saaksvuori, A. Immonen:
Product Lifecycle Management

SOFTWARE

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