

Modul Product Lifecycle Management (engl.) (PLM)

zugeordnet zu: Studiengang P54 Kernstudium M+P

Studiengang:	[P54] Kernstudium M+P	Pflichtkennzeichen:	[WP] Wahlpflichtfach
Credit Points:	5.0	Prüfungsform:	[MH] Klausur, Hausarbeit, münd
Prüfungsart:	[PL] Prüfungsleistung	Art der Notengebung:	[9a] Noten 0,7 - 5,0 zulässig
Modulkoordination / Modulverantwortliche/r	Schelberg		
Lehrende Professoren	Schelberg		
Empfohlenes Semester	1. oder 2. Semester		
Arbeitsaufwand (Workload)	Präsenzstudium 48 Stunden, Selbststudium 102 Stunden		
Lehrsprache	Englisch		

Zu erwerbende Kompetenzen / Lernziele

At the end of this course, the attendants will have acquired the necessary skills to substantially contribute to the definition and implementation of professional PLM initiatives.

Students will acquaint themselves a deep insight into Product Lifecycle Management fundamentals including strategy, guiding principles, concepts, processes, methods, organization, best practices, and tools. They will learn to analyze, to formally describe, and to evaluate as-is processes and tools used in the product life cycle across design disciplines. As a result, they will be enabled to define elements of a strategic approach and roadmap to implement PLM. Finally, the students will have the skillset to design and to implement selected engineering-related to-be processes such as CMII-based Global Change&Configuration Management, Requirements Management, Service Information Management, Product Document Management, or Environmental/Regulatory Compliance Management.

Lerninhalte

- Introduction to Product Life Cycle Management – Approach, Phases, Processes, Organization
- Enterprise strategy and product life cycle
- Product life cycle processes: Overview, Process Analysis, Process Maturity, and Process Optimization
- PLM-Systems: Technologies, Tools, Provider, Strategies
- Detailed investigation of selected processes such as:
 - CMII-based Global Change&Configuration Management
 - Requirements Management
 - Product Document Management
 - Service Information Management
 - Environmental/Regulatory Compliance
- Design and execution of a PLM initiative

Lehr- und Lernformen / Methoden / Medienformen

Facilitated Team Work, eLearning, Lectures, Self-paced Learning

Literatur / Arbeitsmaterialien

John Stark - Product Lifecycle Management: 21st century Paradigm for Product Realisation
 Antti Saaksvuori - Product Lifecycle Management
 Michael Grieves - Driving the Next Generation of Lean Thinking
 John Stark - Global Product: Strategy, Product Lifecycle Management and the Billion Customer Question
 Steven Eppinger - Product Design and Development