

Data Structure for Production Technology

Module code:	Workload:	Semester:
MITM	150 h	(WiSe) Sem.
Credits:	Duration:	Frequency:
5	1 Sem.	Each winter term
Independent study:	Class size:	Contact hours:
90 h		60 h
Module-No.:	Exam.-No.:	Percentage of final score:
7916	5260	PEM: 4,39; PuM, HI: 5,55
Language of instruction:	Vers. BPO/MPO min.:	Internal: Code/Status
english	MPO-2017	613 / aktiv

Type of course:

- Seminaristic lecture: 2 hours per week / 30 h Practical part: 2 hours per week / 30 h;
- E-Learning platform ILIAS: Learning modules, online tests, submission of tasks;
- PC tutorials using relevant IT-Systems

Learning outcomes/Competencies:

The students understand the concept of Product Lifecycle Management (PLM) and are able to manage selected scenarios in a real world environment. They can apply PLM concepts in practice.

Content/subject aim:

- Introduction to Product Lifecycle Management
- Data Structures and Data Management
- Details on PLM process: Requirements Engineering
- Details on PLM process: Release and Change Management
- Details on PLM process: Variant Management

- Tutorials using a PLM tool

Teaching methods:

- Seminaristic lecture with computer, charts, moderation material;
- PC tutorials using relevant IT systems

Prerequisites for participation:

None

Assessment methods / First Examiner / Second Examiner:

Oral examination and submission of scientific paper / Prof. Deuter / M.Sc. Otte

Requirements to get the credit points:

Passed examination of this part of the course

This module is used in the following degree program: (in semester-no.)

(WiSe) M.Sc. Produktion und Management (WP)

(WiSe) M.Sc. Production Engineering and Management (WP)

(WiSe) M.Sc. Wirtschaftsingenieurw der Holzindustrie (WP)

Weight of grade for final grade:

5/90: M.Sc. Produktion und Management

5/114: M.Sc. Production Engineering and Management

5/90: M.Sc. Wirtschaftsingenieur der Holzindustrie

Responsibility for module / Teacher of the submodule:

Prof. Dr. rer. nat. Dipl.-Ing. Andreas Deuter

Other information / literature:

Recommended literature:

- Saaksvuori, A., Immonen, A.: Product Lifecycle Management, Springer, 2008.
- Stark, J.: Product Lifecycle Management (Volume 1), Springer, 2015
- Pohl, K., Rupp, C.: Requirements Engineering Fundamentals, Rocky Nook, 2 edition, 2015.
- Kosman, M., Requirements Management: How to Ensure You Achieve What You Need

from Your Projects, Routledge, 2016.

- VDI 2206, Design methodology for mechatronic systems, 2004.