

Data Structure for Production Technology

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| Module code: | Workload: | Semester: |
| MITM | 150 h | 2. u. 3. 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: 4,16; HT: 5,55 |
| Language of instruction: | Vers. BPO/MPO min.: | |
| english | | 150 |

Type of course:

Seminaristic lecture: 2 hours per week / 30 h Practical part: 2 hours per week / 30 h

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

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.)

(3) Production Engineering and Management (M.Sc.)

(2) Holztechnologie (M.Sc.)

Weight of grade for final grade:

5/120 M.Sc. Production Engineering and Management

5/90 M.Sc. Holztechnologie

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
- 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.