

Module Handbook (<https://modhb.uni-kl.de/>)

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Notes on the module handbook of the department Mechanical and Process Engineering

Die hier dargestellten veröffentlichten Studiengang-, Modul- und Kursdaten des Fachbereichs Maschinenbau und Verfahrenstechnik ersetzen die Modulbeschreibungen im KIS und wurden mit Ausnahme folgender Studiengänge am 28.10.2020 verabschiedet.

Ausnahmen:

- BSc. Bio- und Chemieingenieurwissenschaften (Stand WS 20/21): https://www.mv.uni-kl.de/fileadmin/mv/Studium_Lehre/Modulhandbuecher/MH_BSc_BCI.pdf (https://www.mv.uni-kl.de/fileadmin/mv/Studium_Lehre/Modulhandbuecher/MH_BSc_BCI.pdf)
- BEd. Lehramt Metalltechnik (Stand WS 19/20): https://www.mv.uni-kl.de/fileadmin/mv/Studium_Lehre/Modulhandbuecher/MHB_Bachelor_Lehramt_Metalltechnik.pdf (https://www.mv.uni-kl.de/fileadmin/mv/Studium_Lehre/Modulhandbuecher/MHB_Bachelor_Lehramt_Metalltechnik.pdf)
- MSc. Bio- und Chemieingenieurwissenschaften (Stand WS 20/21): https://www.mv.uni-kl.de/fileadmin/mv/Studium_Lehre/Modulhandbuecher/MH_Msc_BCI.pdf (https://www.mv.uni-kl.de/fileadmin/mv/Studium_Lehre/Modulhandbuecher/MH_Msc_BCI.pdf)
- MEd. Lehramt Metalltechnik Werkstoffe und Fertigung (Stand WS 19/20): https://www.mv.uni-kl.de/fileadmin/mv/Studium_Lehre/Modulhandbuecher/MHB_Master_Lehramt_Metalltechnik_-_Werkstoffe_und_Fertigung.pdf (https://www.mv.uni-kl.de/fileadmin/mv/Studium_Lehre/Modulhandbuecher/MHB_Master_Lehramt_Metalltechnik_-_Werkstoffe_und_Fertigung.pdf)
- MEd. Lehramt Metalltechnik Maschinen- und Fahrzeugtechnik (Stand WS 19/20): https://www.mv.uni-kl.de/fileadmin/mv/Studium_Lehre/Modulhandbuecher/MHB_Master_Lehramt_Metalltechnik_-_Fahrzeugtechnik.pdf (https://www.mv.uni-kl.de/fileadmin/mv/Studium_Lehre/Modulhandbuecher/MHB_Master_Lehramt_Metalltechnik_-_Fahrzeugtechnik.pdf)
- MEd. Lehramt Metalltechnik Verfahrenstechnik (Stand WS 19/20): https://www.mv.uni-kl.de/fileadmin/mv/Studium_Lehre/Modulhandbuecher/MHB_Master_Lehramt_Metalltechnik_-_Verfahrenstechnik.pdf (https://www.mv.uni-kl.de/fileadmin/mv/Studium_Lehre/Modulhandbuecher/MHB_Master_Lehramt_Metalltechnik_-_Verfahrenstechnik.pdf)

Module MV-VPE-M151-M-4

Engineering Management (M, 3.0 LP)

Module Identification

Module Number	Module Name	CP (Effort)
MV-VPE-M151-M-4	<i>Engineering Management</i>	3.0 CP (90 h)

Basedata

CP, Effort	3.0 CP = 90 h
Position of the semester	1 Sem. in WiSe
Level	[4] Bachelor (Specialization)
Language	[DE] German
Module Manager	Göbel, Jens-Christian, Prof. Dr.-Ing. (PROF DEPT: MV) (/staff/312/)
Lecturers	Bitzer, Michael, Dr.-Ing. (EXT DEPT: MV) (/staff/252/) Göbel, Jens-Christian, Prof. Dr.-Ing. (PROF DEPT: MV) (/staff/312/)
Area of study	[MV-VPE] Virtual Product Engineering
Reference course of study	[MV-88.B78-SG] M.Sc. Production Engineering in Mechanical Engineering (/mhb/FB-MV/cos-578/)
Lifecycle-State	[NORM] Active

Courses

Type/SWS	Course Number	Choice in Module-Part	SL	PL	CP	Sem.
2V	MV-VPE-86714-K-4	P	-	PL1	3.0	WiSe

- About **[MV-VPE-86714-K-4]**: Title: "Engineering Management"; Presence-Time: 28 h; Self-Study: 62 h

Examination achievement PL1

- Form of examination: **written or oral examination**
- Examination Frequency: each semester
- Examination number: 10147 ("Engineering Management")

written (60 - 90 minutes) or oral (15 - 30 minutes) examination

Evaluation of grades

The grade of the module examination is also the module grade.

Contents

From **[MV-VPE-86714-K-4] Engineering Management** (/mhb/courses/MV-VPE-86714-K-4/):

The lecture enables students to think strategically, future-oriented and to draw the necessary conclusions for increasing the competitiveness of industrial companies. The listeners know the systematic of the planning and implementation of complex development projects in industry and the basic approaches and structures of development departments. You will be able to play a key role in defining business, production and technology strategies for industrial manufacturing companies. Corporate management skills are taught.

- Basic terms for strategy, organization and processes in product development.
- Overview of the structure and process of creating services in the product creation process (e.g. Engineer to Order, Assemble to Order, Manufacture to Order).
- Development and supplier network.
- Product-oriented vs. component-oriented structures (design bill of materials).
- Process and method management in development management (e.g. process and method libraries).

- Information technology to support development work (e.g. CAD, PLM, ERP).

Competencies / intended learning achievements

From [MV-VPE-86714-K-4] Engineering Management (/mhb/courses/MV-VPE-86714-K-4/):

Students are able

- to explain the system for planning and implementing complex development projects,
- to explain approaches and structures of development departments,
- to define business, production and technology strategies,
- to name principles of corporate governance.

Literature

From [MV-VPE-86714-K-4] Engineering Management (/mhb/courses/MV-VPE-86714-K-4/):

Will be announced during the course.

Requirements for attendance (informal)

None

Requirements for attendance (formal)

None

References to Module / Module Number [MV-VPE-M151-M-4]

Module-Pool	Name
[MV-ALL-MPOOL-6 (/mhb/modulepools/MV-ALL-MPOOL-6/)]	Wahlpflichtmodule allgemein
[MV-MBINFO-MPOOL-6 (/mhb/modulepools/MV-MBINFO-MPOOL-6/)]	Wahlpflichtmodule Maschinenbau mit angewandter Informatik
[MV-PE-MPOOL-6 (/mhb/modulepools/MV-PE-MPOOL-6/)]	Wahlpflichtmodule Produktentwicklung im Maschinenbau