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 wuden 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-CCE-M108-M-7

Laboratory "Plastics Technology" (M, 3.0 LP)

Module Identification

Module Number	Module Name	CP (Effort)
MV-CCE-M108-M-7	*Laboratory "Plastics Technology"*	3.0 CP (90 h)

Basedata

CP, Effort	3.0 CP = 90 h
Position of the semester	1 Sem. in WiSe
Level	[7] Master (Advanced)
Language	[DE] German
Module Manager	Lin, Leyu, Dr.-Ing. (WMA | DEPT: MV) (/staff/261/) Schlarb, Alois, Prof. Dr.-Ing. (PROF | DEPT: MV) (/staff/324/)
Lecturers	Schlarb, Alois, Prof. Dr.-Ing. (PROF | DEPT: MV) (/staff/324/)
Area of study	[MV-CCE] Composite Engineering
Reference course of study	[MV-88.B73-SG] M.Sc. Materials Science and Engineering (/mhb/FB-MV/cos-577/)
Livecycle-State	[NORM] Active

Courses

Type/SWS	Course Number	Choice in Module-Part	SL	PL	CP	Sem.
2L	**MV-CCE-86978-K-7** (/mhb/courses/MV-CCE-86978-K-7/)	P	LABOR	no	3.0	WiSe

- About **[MV-CCE-86978-K-7]**: Title: "Laboratory "Plastics Technology""; Presence-Time: 28 h; Self-Study: 62 h
- About **[MV-CCE-86978-K-7]**: The study achievement **[LABOR] practical laboratory / experimental work** must be obtained.
- About **[MV-CCE-86978-K-7]**:

  Depending on the examination regulations, the course work can/must be submitted as graded examination work. In this case the repetition rules of the examination regulations for practical laboratory work apply.

Evaluation of grades

The module is not graded (only study achievements)..

Contents

From [MV-CCE-86978-K-7] Laboratory "Plastics Technology" (/mhb/courses/MV-CCE-86978-K-7/):

- Identification of plastics
- Plastic extrusion
- Injection molding of plastics
- Additive manufacturing
- Welding of plastics
- Crystallization behavior under optical microscope
- Thermal analysis
- Mechanical testing of plastics
- Tribological testing of Plastics
- Stress cracking resistance of Plastics

Competencies / intended learning achievements

From [MV-CCE-86978-K-7] Laboratory "Plastics Technology" (/mhb/courses/MV-CCE-86978-K-7/):

The students are able to

- identify and describe the plastics based on their properties
- select suitable testing methods for plastics
- conduct the tests
- clarify the fundamentals of the processing and testing of plastics

Literature

From [MV-CCE-86978-K-7] Laboratory "Plastics Technology" (/mhb/courses/MV-CCE-86978-K-7/):

Scripts of the laboratory

Requirements for attendance (informal)

Modules:

- [MV-CCE-26-M-4] Introduction to Polymer Technology (M, 3.0 LP) (/mhb/modules/MV-CCE-26-M-4/)

Requirements for attendance (formal)

None

References to Module / Module Number [MV-CCE-M108-M-7]

Module-Pool	Name
[MV-ALL-MPOOL-6 (/mhb/modulepools/MV-ALL-MPOOL-6/)]	Wahlpflichtmodule allgemein
[MV-MatWerk-MPOOL-6 (/mhb/modulepools/MV-MatWerk-MPOOL-6/)]	Wahlpflichtmodule Materialwissenschaften und Werkstofftechnik
[MV-PT-MPOOL-6 (/mhb/modulepools/MV-PT-MPOOL-6/)]	Wahlpflichtmodule Produktionstechnik