

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, bzw. am 13.01.2021 verabschiedet.

Ausnahmen:

- 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)
- 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-TVT-79-M-4

Laboratory Thermal Process Engineering I (M, 3.0 LP)

Module Identification

Module Number	Module Name	CP (Effort)
MV-TVT-79-M-4	Laboratory Thermal Process Engineering 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	von Harbou, Erik, Prof. Dr.-Ing. (PROF DEPT: MV) (/staff/684/)
Lecturers	The Lecturers of the department Mechanical and Process Engineering (/staff/dept/MV/)
Area of study	[MV-TVT] Separation Science and Technology
Reference course of study	[MV-82.B10-SG] B.Sc. Energy and Process Engineering (/mhb/FB-MV/cos-528/)
Lifecycle-State	[NORM] Active

Courses

Type/SWS	Course Number	Choice in Module-Part	SL	PL	CP	Sem.
2L	MV-TVT-86418-K-4 (/mhb/courses/MV-TVT-86418-K-4/)	P	L-Schein	no	3.0	WiSe

- About **[MV-TVT-86418-K-4]** (/mhb/courses/MV-TVT-86418-K-4/): Title: "Thermal Separation Processes Laboratory I"; Presence-Time: 28 h; Self-Study: 62 h
- About **[MV-TVT-86418-K-4]** (/mhb/courses/MV-TVT-86418-K-4/): The study achievement "**[L-Schein] proof of successful participation in the practical course / lab**" must be obtained.
- About **[MV-TVT-86418-K-4]**:

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-TVT-86418-K-4] Thermal Separation Processes Laboratory I** (/mhb/courses/MV-TVT-86418-K-4/):

Laboratory tests

- Properties of mixtures (phase equilibrium): LLE,VLE
- Rektifikation (continous / batch.)
- Extraction (Mixer-Settler)
- Long tube evaporator
- Drying

Competencies / intended learning achievements

From **[MV-TVT-86418-K-4] Thermal Separation Processes Laboratory I** (/mhb/courses/MV-TVT-86418-K-4/):

The students are able to

- describe and explain thermal separation processes
- plan and carry out experimental investigations on selected thermal separation processes

- evaluate and discuss the results in a professional manner
- present their findings to the practice group and consult with each other as a team effort

Literature

From [MV-TVT-86418-K-4] Thermal Separation Processes Laboratory I (/mhb/courses/MV-TVT-86418-K-4/):
Written laboratory instructions

Requirements for attendance of the module (informal)

Recommended:

Modules:

- [MV-TVT-59-M-4] Thermal Separation Processes I (M, 6.0 LP) (/mhb/modules/MV-TVT-59-M-4/)

Requirements for attendance of the module (formal)

None

References to Module / Module Number [MV-TVT-79-M-4]

Course of Study	Section	Choice/Obligation
[MV-82.B10-SG] B.Sc. Energy and Process Engineering (/mhb/FB-MV/cos-528/)	[Core Modules (non specialised)] Ingenieurwissenschaftliche Grundlagen II	[P] Compulsory
[MV-82.A29-SG] B.Sc. Biological and Chemical Engineering (/mhb/FB-MV/cos-526/)	[Compulsory Elective Modules] Grundlagenlabore	[WP] Compulsory Elective