

Module Handbook

TUK MODHB Homepage

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
- 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
- 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
- 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

Course MV-TVT-86418-K-4

Thermal Separation Processes Laboratory I (2L, 3.0 LP)

Course Type

SWS	Type	Course Form	CP (Effort)	Presence-Time / Self-Study
2	L	Laboratory course	3.0 CP	28 h 62 h
(2L)			3.0 CP	28 h 62 h

Basedata

SWS	2L
CP, Effort	3.0 CP = 90 h
Position of the semester	1 Sem. in WiSe
Level	[4] Bachelor (Specialization)
Language	[DE] German
Lecturers	von Harbou, Erik, Prof. Dr.-Ing. (PROF DEPT: MV)
Area of study	[MV-LRF] Separation Science and Technology
Additional informations	Informations about the course
Lifecycle-State	[NORM] Active

Possible Study achievement

- Verification of study performance: **practical laboratory / experimental work**
- Examination number (Study achievement): 10418 ("Thermal Separation Processes Laboratory I")
- Details of the examination (type, duration, criteria) will be announced at the beginning of the course.

Study achievement consists of pre-test, participation in the laboratory, written laboratory report, main test.

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.

Contents

Laboratory tests

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

Competencies / intended learning achievements

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

Written laboratory instructions

Materials

Written instructions for the individual laboratory experiments as well as pre and post discussions with the laboratory supervisors

Registration

Requires registration!

Requirements for attendance (informal)

Recommended:

Modules:

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

Requirements for attendance (formal)

None

References to Course [MV-TVT-86418-K-4]

Module	Name	Context	
[MV-MEMT-13-M-6]	Thermal Process Engineering	P: Obligatory	2L, 3.0 LP
[MV-TVT-79-M-4]	Laboratory Thermal Process Engineering I	P: Obligatory	2L, 3.0 LP