

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

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Course WIW-POM-QMP-K-6

Quantitative Methods in Operations Management (2K, 3.0 LP)

Course Type

SWS	Type	Course Form	CP (Effort)	Presence-Time / Self-Study
2	K		3.0 CP	30 h / 60 h
(2K)			3.0 CP	30 h / 60 h

Basedata

SWS	2K
CP, Effort	3.0 CP = 90 h
Position of the semester	1 Sem. in WiSe
Level	[6] Master (General)
Language	[EN] English
Lecturers	Sahling, Florian, Prof. Dr. (PROF DEPT: WIW) (/staff/53/)
Area of study	[WIW-POM] Production Management
Lifecycle-State	[NORM] Active

Contents

- Introduction in modelling software GAMS
- Modelling mixed integer programs
- Matheuristics, e.g. Fix-and-Relax, Fix-and-Optimize
- Column Generation

Literature

Slides are made available that contain a list of complementary literature.

Requirements for attendance (informal)

None

Requirements for attendance (formal)

None

References to Course [WIW-POM-QMP-K-6]

Module	Name	Context	
[WIW-KM-QTM4-M-6 (/mhb/modules/WIW-KM-QTM4-M-6/)]	Quantitative Methods 4(CP)	P: Obligatory	2K, 3.0 LP
[WIW-KM-QTM-M-6 (/mhb/modules/WIW-KM-QTM-M-6/)]	Quantitative Methods	WP: Obligation to choose	2K, 3.0 LP
[WIW-POM-PMW-M-7 (/mhb/modules/WIW-POM-PMW-M-7/)]	Operations Management für WI	P: Obligatory	2K, 3.0 LP