

Module: Operations Management

Level	Bachelor	Short Name	
Responsible Lecturers	Rainer Lehmann; Prof. Dr. rer. pol. Dipl.-Ing. oec.		
Department, Facility	Mechanical Engineering and Business Administration		
Course of Studies	Business Administration and Engineering, Bachelor		
Compulsory/elective	Compulsory	ECTS Credit Points	5
Semester of Studies	6	Semester Hours per Week	4
Length (semesters)	1	Workload (hours)	150
Frequency	WiSe	Presence Hours	60
Teaching Language	English	Self-Study Hours	90

The following section is filled only if there is **exactly one** module-concluding exam.

Exam Type	Written Exam	Exam Language	English
Exam Length (minutes)	90	Exam Grading System	One-third Grades
Learning Outcomes	The course enables the students to: <ul style="list-style-type: none"> • Prepare and support strategic and operational operations management decisions • Apply the essential tools and methods of operations management 		
Participation Prerequisites			

The previous section is filled only if there is **exactly one** module-concluding exam.

Consideration of Gender and Diversity Issues	✓ Use of gender-neutral language (THL standard) ✗ Target group specific adjustment of didactic methods ✗ Making subject diversity visible (female researchers, cultures etc.)
Applicability	
Remarks	

Module Course: Operations Management

(of Module: Operations Management)

Course Type	Lecture	Form of Learning	Presence
Mandatory Attendance	no	ECTS Credit Points	5
Participation Limit		Semester Hours per Week	4
Group Size		Workload (hours)	150
Teaching Language	English	Presence Hours	60
Study Achievements ("Studienleistung", SL)		Self-Study Hours	90
SL Length (minutes)		SL Grading System	

The following section is filled only if there is a course-specific exam.

Exam Type		Exam Language	
Exam Length (minutes)		Exam Grading System	
Learning Outcomes			
Participation Prerequisites			

The previous section is filled only if there is a course-specific exam.

Contents	<ul style="list-style-type: none"> • Introduction • Designing Operations <ul style="list-style-type: none"> • Process design • Design of products and services • Supply network design • Job design and work organization • Managing Operations <ul style="list-style-type: none"> • Supply Chain Management • Managing Inventory • Forecasting, planning and scheduling • Manufacturing Management • Lean Operations and JIT
Literature	<p>Arnold, J.R.T; Chapman, St.N.; Clive; L.M.: Introduction to Materials Management. Harlow: Pearson: 2014</p> <p>Ballou, R.H.: Business Logistics Management. Upper Saddle River: Prentice-Hall 1999</p> <p>Bowersox, D.J.; Closs, D.J.; Cooper, M.B.: Supply Chain Logistics Management. New York et al: McGraw-Hill 2010</p> <p>Chase, R.B.; Aquilano, N.J.; Jacobs, F.R.: Operations Management. New York et al: McGraw-Hill 2006</p> <p>Coward, D.G.: Manufacturing Management. London: Macmillan 1998</p>

Frazelle, F.: Supply Chain Strategy. New York et al: McGraw-Hill 2002

Heizer, J.; Render, B.: Operations Management. Boston u.a.: Pearson 2015

Slack, N.; Brandon-Jones, A.; Johnston, R.: Operations Management. Harlow: Pearson: 2013

Stock, J.R., Lambert, D.M.: Strategic Logistics Management. New York et al: McGraw-Hill 2001

Tersine, R. J: Principles of Inventory and Materials Management. Englewood Cliffs: Prentice-Hall 1994

Remarks	
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