

Module: Materials Handling

Level	Bachelor	Short Name		
Responsible Lecturers	Rainer Lehmann; Prof. Dr. rer. pol. DiplIng. 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	SuSe	Presence Hours	60	
Teaching Language	English	Self-Study Hours	90	
The following section is filled on	ly if there is exactly or	ne 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: Analyze and optimize the material flow in factories, warehouses etc. Select and design material handling systems in factories, warehouses etc. 			
Participation Prerequisites				
The previous section is filled on	ly if there is exactly on	e 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.) 			
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Applicability			<u> </u>	

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Module Course: Materials Handling

(of Module: Materials Handling)

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		
he following section is filled on	ly if there is a course	-specific exam.		
Exam Type		Exam Language		
Exam Length (minutes)		Exam Grading System		
Learning Outcomes				
Participation Prerequisites				
he previous section is filled on	ly if there is a course	-specific exam.		
Contents	 Introduction Packaging and Unitization Material Handling Equipment Warehousing Planning of Material Handling Systems IT-Systems for Material Handling 			
Literature	Bartholdi III, John J.; Hackman, St. T.: Warehouse and Distribution Science. Release 0.96. Georgia Institute of Technology 2014			
	Frazelle, F.: World Class Warehousing and Material Handling. New York eal: McGraw-Hill 2001			
	Heragu, S.S.: Facilities Design. Boca Raton: CRC 2008			
	Kay, M.G.: Material Handling Equipment. Fitts Department of Industrial and Systems Engineering. North Carolina State University 2012			
	Martin, H.: Warehousing and Transportation Logistics. London: Kogan Page 2018			
	Richards, G.: Warehouse Management. London: Kogan Page 2014			
	ten Hompel, M.; Schmidt, Th.: Warehouse Management. Berlin et al: Springer 2007			
	Springer 2007			
		n to Materials Handling. New Deh	li et al: New Age 200	

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