Course of Study Engineering and Management - Major in Logistics and Mobility (Study Cohort w22)

Sample course plan C Bachelor Engineering and Management - Major in Logistics and Mobility (WILUMBS) Dual study program

Specialisation: Information Technology

Legend:

Core Qualification Compulsory	Specialisation Compulsory
Core Qualification Elective Compulsory	Specialisation Elective Compulsory
Focus Compulsory	Thesis Compulsory
Focus Elective Compulsory	Interdisciplinary complement

Semester 1

Course	Form	Hrs/wk
Introduction to Logistics and Mobility		
Freight Traffic and Logistics	VL	2
Freight Traffic and Logistics	PBL	2
Introduction to Scientific Work	VL	1
Foundations of Management		
Introduction to Management	VL	3
Management Tutorial	GÜ	2
Mathematics I		
Mathematics I	VL	4
Mathematics I	HÜ	2
Mathematics I	GÜ	2
Practical module 1 (dual study program, Bachelor's degree)		
Practical term 1		0
Engineering Mechanics I (Stereostatics)		
Engineering Mechanics I	VL	2
Engineering Mechanics I	GÜ	2
Engineering Mechanics I	HÜ	1

Semester 2

Course	Form	Hrs/wk
Mathematics II		
Mathematics II	VL	4
Mathematics II	HÜ	2
Mathematics II	GÜ	2
Logistics Management		
Logistics Economics	PBL	3
Introduction into Production Logistics	VL	2
Technical Logistics		
Technical Logistics	VL	3
Technical Logistics	GÜ	2
Technical drawing and CAD (part 1)		
Fundamentals of Technical Drawing	VL	1
Fundamentals of Technical Drawing	HÜ	1
Practical module 2 (dual study program, Bachelor's degree)		
Practical term 2		0
Engineering Mechanics II (Elastostatics)		
Engineering Mechanics II	VL	2
Engineering Mechanics II	GÜ	2
Engineering Mechanics II	HÜ	2

Semester 3

Course	Form	Hrs/wk
Technical drawing and CAD (part 2)		
Introduction to CAD	GÜ	2
Transportation Planning and Traffic Engineering		
Transport Planning and Traffic Engineering	PBL	4
Introduction to Economics		
Introduction to Economics	VL	2
Introduction to Economics	GÜ	2
IT applications for logistics and mobility		
IT applications for logistics and mobility	VL	3
IT applications for logistics and mobility	GÜ	1
Computer Science for Engineers - Introduction and Overview		
Computer Science for Engineers - Introduction and Overview	VL	3
Computer Science for Engineers - Introduction and Overview	GÜ	2
Practical module 3 (dual study program, Bachelor's degree)		
Practical term 3		0

Semester 4

Course	Form	Hrs/wk
Introduction to Operations Research and Statistics		
Introduction to Statistics	VL	2
Introduction to Operations Research	VL	2
Exercises to Introduction in Quantitative Methods in Logistics	GÜ	2
Management		
Foundations of Management	VL	2
Finance and Accounting	VL	2
Project Management and Controlling		
Foundations of project management	VL	2
Foundations of Controlling	VL	2
Practical module 4 (dual study program, Bachelor's degree)		
Practical term 4		0
Computer Science for Engineers - Programming Concepts, Data Handling & Communication		
Computer Science for Engineers - Programming Concepts, Data Handling & Communication	VL	3
Computer Science for Engineers - Programming Concepts, Data Handling & Communication	GÜ	2
Graph Theory and Optimization		
Graph Theory and Optimization	VL	2
Graph Theory and Optimization	GÜ	2

Semester 5

Course	Form	Hrs/wk
Project Course Logistics and Mobility		
Ethics and Technology		
Technology Assessment	VL	2
Practical module 5 (dual study program, Bachelor's degree)		
Practical term 5		0
Mathematics III		
Analysis III	VL	2
Analysis III	GÜ	1
Analysis III	HÜ	1
Differential Equations 1	VL	2
Differential Equations 1	GÜ	1
Differential Equations 1	HÜ	1
Automation in logistics		
Automation in logistics - seminar	SE	2
Automation in logistics - Lab	PBL	2
Gamification of Strategic Thinking		
Gamification of Strategic Thinking	SE	4

Semester 6

Course	Form	Hrs/wk
Legal Foundations of Logistics and Mobility		
Legal foundations for logistics and mobility	VL	4
Stochastics		
Stochastics	VL	2
Stochastics	GÜ	2
Machine Learning I		
Machine Learning I	VL	2
Machine Learning I	GÜ	2
Bachelor thesis (dual study program)		

Linking theory and practice (dual study program, Bachelor's degree) (from catalogue) - 6LP

Technical Complementary Course for Logistics and Mobility (according to Subject Specific Regulations) - 6LP

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.