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

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

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

Technical drawing and CAD (part 2)
Introduction to CAD	GÜ	2

Introduction to Economics
Introduction to Economics	VL	2
Introduction to Economics	HÜ	2

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

Project Management and Accounting
Foundations of project management	VL	2
Foundations of cost and activity accounting	VL	2

Practical module 3 (dual study program, Bachelor's degree)
Practical term 3	0

Transportation Planning and Traffic Engineering
Transport Planning and Traffic Engineering	PBL	4

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 Investment	VL	2

IT applications for logistics and mobility
Introduction to Geoinformation Science	PBL	3
IT applications for logistics and mobility	VL	1
IT applications for logistics and mobility	GÜ	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

Ethics and Technology - Responsible Innovation
Ethics and Technology - Responsible Innovation	VL	4

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

Project Course Logistics and Mobility

Gamification of Strategic Thinking
Gamification of Strategic Thinking	SE	4

Legal Foundations of Logistics and Mobility
Legal Foundations of Transportation and Logistics	VL	2
Legal Foundations of Transportation and Logistics	HÜ	1

Stochastics
Stochastics	VL	2
Stochastics	GÜ	2

Machine Learning I
Machine Learning I	VL	2
Machine Learning I	GÜ	3

Bachelor thesis (dual study program)

Semester rows: 1–36

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.