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

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

Specialisation Traffic Planning and Systems

Column 1 (Core Qualification)

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

Column 2

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

Column 3

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

Column 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

Mobility Concepts
Mobility Research and Transportation Projects	PBL	3
Mobility in Megacities and Developing Countries	SE	3

Introduction to Transportation Economics
Introduction to Transportation Economics	VL	3

Column 5

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

Traffic systems and handling technology
Traffic systems and handling technology	VL	2
Traffic systems and handling technology	GÜ	2

Business Administration and Enterprise Resource Planning: CERMEDES AG
Business Administration and Enterprise Resource Planning: CERMEDES AG	SE	2
Business Administration and Enterprise Resource Planning: CERMEDES AG	VL	2

Project Seminar WILUM
Project Seminar WILUM	SE	3

Simulation of Transport and Handling Systems
Simulation of Transport and Handling Systems	VL	1
Simulation of Transport and Handling Systems	GÜ	3

Column 6

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

Aeronautical Systems
Air Transportation Systems	VL	2
Fundamentals of Aircraft Systems	VL	2
Fundamentals of Aircraft Systems	GÜ	1
Air Transportation Systems	HÜ	1

Introduction to Railways
Introduction to Railways	VL	2
Introduction to Railways	HÜ	1

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.