Course of Study Engineering and Management - Major in Logistics and Mobility (Study Cohort w21)

Sample course plan B Bachelor Engineering and Management - Major in Logistics and Mobility (WILUMBS)
Specialisation Information Technology

Semester 1

Introduction to Logistics and Mobility
	Form	Hrs/wk
Freight Traffic and Logistics	VL	2
Freight Traffic and Logistics	PBL	2
Introduction to Scientific Work	VL	1

Foundations of Management
	Form	Hrs/wk
Introduction to Management	VL	3
Management Tutorial	GÜ	2

Mathematics I
	Form	Hrs/wk
Linear Algebra I	VL	2
Linear Algebra I	GÜ	1
Linear Algebra I	HÜ	1
Analysis I	VL	2
Analysis I	GÜ	1
Analysis I	HÜ	1

Mechanics I (Statics)
	Form	Hrs/wk
Mechanics I	VL	2
Mechanics I	GÜ	2
Mechanics I	HÜ	1

Semester 2

Mechanics II: Mechanics of Materials
	Form	Hrs/wk
Mechanics II	VL	2
Mechanics II	GÜ	2
Mechanics II	HÜ	2

Mathematics II
	Form	Hrs/wk
Linear Algebra II	VL	2
Linear Algebra II	GÜ	1
Linear Algebra II	HÜ	1
Analysis II	VL	2
Analysis II	HÜ	1
Analysis II	GÜ	1

Logistics Management
	Form	Hrs/wk
Logistics Economics	PBL	3
Introduction into Production Logistics	VL	2

Technical Logistics
	Form	Hrs/wk
Technical Logistics	VL	3
Technical Logistics	GÜ	2

Technical drawing and CAD (part 1)
	Form	Hrs/wk
Fundamentals of Technical Drawing	VL	1
Fundamentals of Technical Drawing	HÜ	1

Semester 3

Technical drawing and CAD (part 2)
	Form	Hrs/wk
Introduction to CAD	GÜ	2

Transportation Planning and Traffic Engineering
	Form	Hrs/wk
Transport Planning and Traffic Engineering	PBL	4

Introduction to Economics
	Form	Hrs/wk
Introduction to Economics	VL	2
Introduction to Economics	GÜ	2

IT applications for logistics and mobility
	Form	Hrs/wk
IT applications for logistics and mobility	VL	3
IT applications for logistics and mobility	GÜ	1

Computer Science for Engineers - Introduction and Overview
	Form	Hrs/wk
Computer Science for Engineers - Introduction and Overview	VL	3
Computer Science for Engineers - Introduction and Overview	GÜ	2

Semester 4

Introduction to Operations Research and Statistics
	Form	Hrs/wk
Introduction to Statistics	VL	2
Introduction to Operations Research	VL	2
Exercises to Introduction in Quantitative Methods in Logistics	GÜ	2

Management
	Form	Hrs/wk
Foundations of Management	VL	2
Finance and Accounting	VL	2

Project Management and Controlling
	Form	Hrs/wk
Foundations of project management	VL	2
Foundations of Controlling	VL	2

Computer Science for Engineers - Programming Concepts, Data Handling & Communication
	Form	Hrs/wk
Computer Science for Engineers - Programming Concepts, Data Handling & Communication	VL	3
Computer Science for Engineers - Programming Concepts, Data Handling & Communication	GÜ	2

Simulation of intra logistics
	Form	Hrs/wk
Simulation of intra logistics	SE	4

Semester 5

Project Course Logistics and Mobility

Ethics and Technology
	Form	Hrs/wk
Technology Assessment	VL	2

Mathematics III
	Form	Hrs/wk
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
	Form	Hrs/wk
Automation in logistics - seminar	SE	2
Automation in logistics - Lab	PBL	2

Business Administration and Enterprise Resource Planning: CERMEDES AG
	Form	Hrs/wk
Business Administration and Enterprise Resource Planning: CERMEDES AG	SE	2
Business Administration and Enterprise Resource Planning: CERMEDES AG	VL	2

Semester 6

Legal Foundations of Logistics and Mobility
	Form	Hrs/wk
Legal foundations for logistics and mobility	VL	4

Logistics, Transport and Environment
	Form	Hrs/wk
Transport Logistics	PBL	2
Environmental Management and Corporate Responsibilty	SE	2

Process Management
	Form	Hrs/wk
Basics of process management	VL	2
Process management practice	SE	2

Bachelor Thesis

Non-technical Courses for Bachelors (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.