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

Legend:

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

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

| LP | Semester 1 | Form | Hrs/wk | Semester 2 | Form | Hrs/wk | Semester 3 | Form | Hrs/wk | Semester 4 | Form | Hrs/wk | Semester 5 | Form | Hrs/wk | Semester 6 | Form | Hrs/wk |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | **Introduction to Logistics and Mobility** | | | **Mechanics II: Mechanics of Materials** | | | **Technical drawing and CAD (part 2)** | | | **Introduction to Operations Research and Statistics** | | | **Project Course Logistics and Mobility** | | | **Legal Foundations of Logistics and Mobility** | | |
| 2 | Freight Traffic and Logistics | VL | 2 | Mechanics II | VL | 2 | Introduction to CAD | GÜ | 2 | Introduction to Statistics | VL | 2 | | | | Legal foundations for logistics and mobility | VL | 4 |
| 3 | Freight Traffic and Logistics | PBL | 2 | Mechanics II | GÜ | 2 | | | | Introduction to Operations Research | VL | 2 | | | | | | |
| 4 | Introduction to Scientific Work | VL | 1 | Mechanics II | HÜ | 2 | | | | Exercises to Introduction in Quantitative Methods in Logistics | GÜ | 2 | | | | | | |
| 5 | | | | | | | **Transportation Planning and Traffic Engineering** | | | | | | | | | | | |
| 6 | | | | | | | Transport Planning and Traffic Engineering | PBL | 4 | | | | | | | | | |
| 7 | **Foundations of Management** | | | **Mathematics II** | | | | | | **Management** | | | **Ethics and Technology** | | | **Stochastics** | | |
| 8 | Introduction to Management | VL | 3 | Linear Algebra II | VL | 2 | | | | Foundations of Management | VL | 2 | Technology Assessment | VL | 2 | Stochastics | VL | 2 |
| 9 | Management Tutorial | GÜ | 2 | Linear Algebra II | GÜ | 1 | | | | Finance and Accounting | VL | 2 | | | | Stochastics | GÜ | 2 |
| 10 | | | | Linear Algebra II | HÜ | 1 | **Introduction to Economics** | | | | | | **Mathematics III** | | | | | |
| 11 | | | | Analysis II | VL | 2 | Introduction to Economics | VL | 2 | | | | Analysis III | VL | 2 | | | |
| 12 | | | | Analysis II | HÜ | 1 | Introduction to Economics | GÜ | 2 | | | | Analysis III | GÜ | 1 | | | |
| 13 | **Mathematics I** | | | Analysis II | GÜ | 1 | | | | **Project Management and Controlling** | | | Analysis III | HÜ | 1 | **Machine Learning I** | | |
| 14 | Linear Algebra I | VL | 2 | | | | | | | Foundations of project management | VL | 2 | Differential Equations 1 | VL | 2 | Machine Learning I | VL | 2 |
| 15 | Linear Algebra I | GÜ | 1 | **Logistics Management** | | | | | | Foundations of Controlling | VL | 2 | Differential Equations 1 | GÜ | 1 | Machine Learning I | GÜ | 2 |
| 16 | Linear Algebra I | HÜ | 1 | Logistics Economics | PBL | 3 | | | | | | | Differential Equations 1 | HÜ | 1 | | | |
| 17 | Analysis I | VL | 2 | Introduction into Production Logistics | VL | 2 | **IT applications for logistics and mobility** | | | | | | | | | | | |
| 18 | Analysis I | GÜ | 1 | | | | IT applications for logistics and mobility | VL | 3 | | | | **Automation in logistics** | | | | | |
| 19 | Analysis I | HÜ | 1 | | | | IT applications for logistics and mobility | GÜ | 1 | | | | Automation in logistics - seminar | SE | 2 | | | |
| 20 | | | | | | | | | | **Computer Science for Engineers - Programming Concepts, Data Handling & Communication** | | | Automation in logistics - Lab | PBL | 2 | **Bachelor Thesis** | | |
| 21 | **Mechanics I (Statics)** | | | **Technical Logistics** | | | | | | Computer Science for Engineers - Programming Concepts, Data Handling & Communication | VL | 3 | | | | | | |
| 22 | Mechanics I | VL | 2 | Technical Logistics | VL | 3 | **Computer Science for Engineers - Introduction and Overview** | | | Computer Science for Engineers - Programming Concepts, Data Handling & Communication | GÜ | 2 | **Gamification of Strategic Thinking** | | | | | |
| 23 | Mechanics I | GÜ | 2 | Technical Logistics | GÜ | 2 | Computer Science for Engineers - Introduction and Overview | VL | 3 | | | | Gamification of Strategic Thinking | SE | 4 | | | |
| 24 | Mechanics I | HÜ | 1 | | | | Computer Science for Engineers - Introduction and Overview | GÜ | 2 | **Graph Theory and Optimization** | | | | | | | | |
| 25 | | | | | | | | | | Graph Theory and Optimization | VL | 2 | | | | | | |
| 26 | | | | | | | | | | Graph Theory and Optimization | GÜ | 2 | | | | | | |
| 27 | | | | **Technical drawing and CAD (part 1)** | | | | | | | | | | | | | | |
| 28 | | | | Fundamentals of Technical Drawing | VL | 1 | | | | | | | | | | | | |
| 29 | | | | Fundamentals of Technical Drawing | HÜ | 1 | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | |

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.