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

Sample course plan A  Bachelor Engineering and Management - Major in Logistics and Mobility (WILUMBS)
Specialisation Traffic Planning and Systems

**Legend:**

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|---|---|
| Core Qualification Compulsory | Specialisation Compulsory |
| Core Qualification Elective Compulsory | Specialisation Elective Compulsory |

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|---|---|
| Focus Compulsory | Thesis Compulsory |
| Focus Elective Compulsory | Interdisciplinary complement |

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**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**
| | | |
|---|---|---|
| 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)**
| | | |
|---|---|---|
| Mechanics I | VL | 2 |
| Mechanics I | GÜ | 2 |
| Mechanics I | HÜ | 1 |

**Mechanics II: Mechanics of Materials**
| | | |
|---|---|---|
| Mechanics II | VL | 2 |
| Mechanics II | GÜ | 2 |
| Mechanics II | HÜ | 2 |

**Mathematics II**
| | | |
|---|---|---|
| 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**
| | | |
|---|---|---|
| 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 |

**Technical drawing and CAD (part 2)**
| | | |
|---|---|---|
| Introduction to CAD | GÜ | 2 |

**Transportation Planning and Traffic Engineering**
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|---|---|---|
| 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 |

**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 |

**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 |

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

**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**
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|---|---|---|
| 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**
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|---|---|---|
| Simulation of Transport and Handling Systems | VL | 1 |
| Simulation of Transport and Handling Systems | GÜ | 3 |

**Legal Foundations of Logistics and Mobility**
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|---|---|---|
| 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**

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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.