

# Engineering and Management – Major in Logistics and Mobility

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## WHAT IS ENGINEERING AND MANAGEMENT?

The study of engineering and management combines technical and scientific engineering with economics. Students are interested in both technology and its management and usually aim for a management position after graduation. Engineers find solutions to complex challenges. But often it is not enough to just find innovative technological or organizational solutions. Rather, it is also necessary to design the implementation process economically and the ethical aspects of value added processes must not be neglected either. However, engineers and economists do not always speak the same language. This is where graduates of the study program come into the picture. Thanks to their interdisciplinary studies in natural sciences, technology and economics, they create the link between economic, technical, social and scientific thinking. Graduates are therefore generalists who use their broad knowledge to ensure effective cooperation and communication between different disciplines and are able to make their own management decisions.

## WHAT IS LOGISTICS AND MOBILITY?

Logistics and mobility are very important for the future of our society. The efficient, timely and customer-oriented provision of goods, people and information is an important success factor in the production and distribution of complex products and services of globally networking companies. Logistics experts manage and shape the flows between and

within these companies. Logistics requires an efficient and functioning transport infrastructure, which is also a prerequisite for the mobility of people. Transport systems provide access not only to goods and merchandise, but also for people to workplaces, educational institutions, leisure and shopping facilities. In doing so, it is also important to meet sustainability goals so that the mobility of people and goods does not overexploit natural resources and has as little impact as possible on people and nature.

## WHERE DO I ENCOUNTER LOGISTICS AND MOBILITY IN MY EVERYDAY LIFE?

Every day and everywhere. How does a T-shirt get to the store? How do groceries get to the refrigerated section and to my home? Where does my smartphone come from and how do I get to school quickly and safely? These and many more questions are being addressed by stakeholders in the fields of mobility, logistics and transport.

## WHAT LOGISTICS AND MOBILITY TOPICS IS TUHH RESEARCHING?

TUHH's research is focused on sustainable logistics and mobility. In addition to this superior research approach, current issues on socially relevant topics, such as the development and use of autonomous vehicles or on the use of drones, e.g. for the delivery of goods, the benefits and realization of electro mobility, security in supply chains, and the design of efficient goods handling at

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container ports and in intralogistics are investigated. In addition, solutions for logistics planning problems, such as the planning of sustainable supply chains in commercial or humanitarian logistics, are developed, and research is also conducted in the areas of business start-ups, innovation management, digitalization, e.g. on the topic of block chain, and other interdisciplinary areas of business and engineering.

## WHAT WILL I LEARN IN THE STUDY PROGRAM?

The study program provides the necessary knowledge to be able to plan, manage and control transport schemes and production processes. Basic questions on topics such as sustainable mobility, design of freight and passenger transport systems and their interaction are answered. Likewise, the technical infra- and suprastructure as a prerequisite for transport and logistics and the means of transportation are dealt with. These core topics are taught from a scientific-methodological and practical perspective and are supported by the business fundamentals of corporate organization and management.

In the second half of the program, students can choose one of the following three specializations:

- Transport planning and systems
- Production management and processes
- Information technology

## WHAT SHOULD I BRING WITH ME?

The study of engineering and management is interdisciplinary by nature. The Logistics and Mobility specialization therefore requires inquisitiveness in both technical and business topics. In addition to the necessary mathematical fundamentals, a prerequisite for their understanding is an interest in dealing with the ecological and social interactions of logistics and mobility. This is more successful the more one is able to work in groups in a goal-oriented manner.

During your studies, you often have to motivate yourself to learn something. Attendance is less compulsory than at school and some exams are not taken until the very end of the semester. Personal responsibility and a high degree of self-organization are therefore very important. If you are open-minded and participate in campus life, you will quickly find study groups and also get to know students from higher semesters and other disciplines.

## WHERE CAN I FIND A JOB?

After graduating, you can start working directly in management positions in this promising industry and thus move up the salary ladder. The interdisciplinary education as well as the broad methodological competence allow you to work in a variety of fields. Every company and every organization has logistical processes that need to be controlled or optimized. But also cities and municipalities need graduates who deal with the mobility of people and

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and goods in order to be able to provide the infrastructure according to demand. Wherever mobility is of importance and is comprehensively considered and planned, there is a possible workplace for graduates of engineering and management with a major in logistics and mobility.

## HOW TO STUDY FURTHER?

These master's degree programs at TUHH are available after completion of the bachelor's degree:

→ Logistics, Infrastructure, Mobility (M.Sc. LIM)

→ International Management and Engineering (M.Sc. IWI)

→ [www.tuhh.de/](http://www.tuhh.de/) 