

Transport, Infrastructure and Logistics

MSc Programme



Transport is everywhere and logistics is the motor behind it, 24/7, 365 days of the year. It influences heavily how we plan our environment and our economy, how politicians determine policies and how everyone makes choices about where we live, where we work, which activities we undertake and how we spend our lives. If there is one engineering discipline which by nature is multi- and interdisciplinary, it's TIL. In life, there is almost nothing that we do that is not in some way dependent upon transport, infrastructure and logistics. Everything is connected to everything, and good logistics is key to figuratively make the world go round and round.

Degree	Master of Science
Starts	September
Type	full-time
Credits	120 ECTS, 24 months
Language	English
Application deadline	1 April: International students 1 July: Dutch degree
Tuition fee	€ 18.750 (non EU) € 2.168 (EU)
Scholarships	scholarships.tudelft.nl

Programme

This master offers a comprehensive programme, which aims to provide you with the broad knowledge and skills to understand all phases of the life cycle of transport and logistics systems. From spatial planning and the making of transport policy, through the design of transport systems, supply chains and infrastructure networks, to the operation, management and control of these systems. Throughout the programme you will work on modern day cases in interdisciplinary projects and courses, with students who have different backgrounds and specialisations. Just like in the real world. Courses constitute a major

part of the programme, and some involve projects. There are three types of courses in the programme: fundamentals, specialisations and electives. A fundamental course is a basic component of the programme that provides broad and systematic insight into the design and analysis of machines, infrastructures and organisations related to TIL. The electives are separate courses that students can choose in order to satisfy their specific knowledge needs. The remainder of the programme consists of full projects, including a research project, a design project and thesis.

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Fundamentals				23 EC
2 courses	1 course	1 course	2 courses	
Specialisations				27 EC
<i>Policy</i>	<i>Design</i>	<i>Operations</i>	<i>Engineering</i>	
2 courses	3 courses	3 courses	1 course	
2 courses	1 course	1 course	2 courses	
3 courses	2 courses	2 courses	3 courses	
Electives				25 EC
>= 1 course	>= 1 course	>= 1 course	>= 1 course	
Projects				15 EC
2 projects				
Thesis				30 EC
1 thesis project				

Courses and projects
provided by:

 MSc Civil Engineering	 MSc CoSEM	 MSc Mechanical Engineering
 MSc TIL	 MSc Aerospace Engineering	 MSc Architecture

Specialisations

Specialisations are packages of courses with a common theme or application domain. Students must choose one out of four specialisations:

Specialisation Policy, focusing on the development and assessment of transport, spatial and environmental policy, as well as on infrastructure and spatial planning.

Specialisation Design, focusing on the design of transport service and infrastructure networks in the context of urban design, spatial planning and regional economy.

Specialisation Operations, focusing on the operational management and control of traffic in transport systems, as well as on the technologies and methodologies in vehicles that facilitate these processes.

Specialisation Engineering, focusing on the control and optimisation of transportation and production systems, as well as on the supply chains to which they belong.

Graduation examples

Some examples of thesis projects:

- The impact of 3D printing on the world container transport.
- Design of the inner Schiphol Transport.
- Flows with an optional central pickup and

drop-off point. Improving Heineken's export transport modality choices.

- Planning safe pedestrian mass events.
- Long-term spatial impacts of commuting tax policies.
- Increasing customer satisfaction with public transport.
- Use of drones in parcel services.

Career prospects

After graduating you are capable of designing new road, rail, air and water transportation services for passengers and/or freight, efficiently managing transportation networks, and designing and controlling complex supply chains. You will find opportunities to work in design, planning, management and control in the field. After substantial job experience you should be able to move into management positions most often in public or private organisations such as ministries, consultancy firms, research organizations, and in businesses such as public transportation companies, real estate development firms, large engineering or construction firms, and TIL-related industries. Others choose to broaden their expertise by pursuing advanced academic studies, including doctoral studies in programmes such as those offered at the TRAIL Research School, a Dutch institute for transport, infrastructure and logistics that is operated jointly by several Dutch universities.



4th

in Shanghai subject ranking
Transport Science and
Technology 2020



97

first year students in 2020



12%

international students



66%



34%

Jointly offered by 3 faculties:

- Civil Engineering and Geosciences
- Mechanical, Maritime and Materials Engineering
- Technology, Policy and Management