

## Transport Engineering and Management 2024-2025

### PROFILES

Integrated Urban Transport			Transport and Logistics		
Profile Courses (≥25 EC)	EC	Quartile	Profile Courses (≥25 EC)	EC	Quartile
Civil Engineering Challenges*	5	1	Civil Engineering Challenges*	5	1
Planning & Process Management	5	1	Simulation (IEM)	5	1
Public Transport Modelling	5	2	Traffic Operations	5	1
Sustainable Transport	5	2	Public Transport Modelling	5	2
Rail Transport	5	2	Data Science (BIT)	5	2 or 3
Traffic Safety	5	2	Network Modelling and Forecasting	5	3
Data Science (BIT)	5	2 or 3	Transportation & Logistics Management (IEM)	5	3
Land Use and Transport Interactions	5	4	Traffic Management	5	3
			Mathematical Optimization in Transport	5	4
			Smart Mobility	5	4
<b>Profile Electives (~40 EC)</b>			<b>Profile Electives (~40 EC)</b>		
<i>- Free to choose any of the CEM courses offered (pay attention to the required prior knowledge)</i>			<i>- Free to choose any of the CEM courses offered (pay attention to the required prior knowledge)</i>		
<i>- Below: list of CEM-courses that fit best in this profile (in addition to profile courses)</i>			<i>- Below: list of CEM-courses that fit best in this profile (in addition to profile courses)</i>		
Suggested Profile Electives	EC	Quartile	Suggested Profile Electives	EC	Quartile
Simulation (IEM)	5	1	Planning & Process Management	5	1
Traffic Operations	5	1	Sustainable Transport	5	2
Empirical Methods for Designers (IDE)	5	2	Rail Transport	5	2
Network Modelling and Forecasting	5	3	Empirical Methods for Designers (IDE)	5	2
Urban Resilience in a Changing Climate	5	3	Traffic Safety	5	2
Transportation & Logistics Management (IEM)	5	3	Land Use and Transport Interactions	5	4
Traffic Management	5	3	Infrastructure Asset Management	5	4
Infrastructure Asset Management	5	4			
Mathematical Optimization in Transport	5	4			
Smart Mobility	5	4			

### GENERAL COURSES

Free Electives (max 15 EC)	EC	Quartile	Free Electives (max 15 EC)	EC	Quartile
Any course from UT or approved other university**			Any course from UT or approved other university**		
On the CEM/CME Canvas page there is a list of courses from other MSc programmes available that fit this track. In some occasions, you can include courses from other programmes as a profile elective. In that case you need approval of your track-coordinator.			On the CEM/CME Canvas page there is a list of courses from other MSc programmes available that fit this track. In some occasions, you can include courses from other programmes as a profile elective. In that case you need approval of your track-coordinator.		
Other usefull courses (0 EC)	EC	Quartile	Other usefull courses (0 EC)	EC	Quartile
Boost your Competences	0	1,2,3,4	Boost your Competences	0	1,2,3,4
Thesis ***	EC	Quartile	Thesis ***	EC	Quartile
Academic Research Skills in CEM/CME	5	2,4	Academic Research Skills in CEM/CME	5	2,4
Preparation Master Thesis	5	-	Preparation Master Thesis	5	-
Master Thesis Traffic	30	-	Master Thesis Traffic	30	-

#### PLANNING AND CONSULTATION FOR THE MASTER PROFILES

Track-coordinator: Prof.dr.ir. Eric van Berkum  
Coordinator Master Theses: Prof.dr.ir. Eric van Berkum

\* Second year MSc course

\*\* an "approved university" is any university in The Netherlands (not HBO-schools), or any international university that is partner of the UT or of the faculty of ET.

The Free Electives should be at MSc-level and should have no overlap with other courses in your programme. For courses from other universities, contact your track-coordinator.

\*\*\* [Click here for the procedure of how to start the course Preparation MSc-thesis and your MSc-thesis project](#)