Transport Engineering and Management

Transport Planning and Modelling			Transport and Logistics		
Profile Courses (minimum 30 EC)	*EC*	*Quartile*	**Profile Courses (minimum 30 EC)**	*EC*	*Quartile*
Transport Research Project (mandatory)	5	any	Transport Research Project (mandatory)	5	any
Planning & Process Management	5	1	Simulation (IEM)	5	1
Modelling Consumer Behaviour	5	1	Traffic Operations	5	1
Rail Transport	5	2	Traffic Forecasting & Analysis	5	2
Choice Modelling	5	2	Network Modelling & Forecasting	5	2
Land Use and Transport Interactions	5	3	Mathematical Optimization (DMMP)	5	3
Public Transport Modelling	5	3	Public Transport Modelling	5	3
Sustainable Transport	5	4	Traffic Management	5	4
			Network Equilibrium Analysis	5	4
Profile Electives ***- Free to choose any of the CEM-courses*** *(pay attention to the required prior knowledge)* ***- Below: list of CEM-courses that fit best in this profile (in addition to profile courses)*** ***- Below: courses from other programmes that fit in this profile*** *(If you include courses from other programmes, we recommend you to make a selection, such that the majority of the programme is still formed by CEM-courses)*			**Profile Electives** ***- Free to choose any of the CEM-courses*** *(pay attention to the required prior knowledge)* ***- Below: list of CEM-courses that fit best in this profile (in addition to profile courses)*** ***- Below: courses from other programmes that fit in this profile*** *(If you include courses from other programmes, we recommend you to make a selection, such that the majority of the programme is still formed by CEM-courses)*		
Legal & Governance Aspects	7,5	1	Planning & Process Management	5	1
Traffic Forecasting & Analysis	5	2	Construction Supply Chain and Digitization	5	1
Network Modelling & Forecasting	5	2	Statistics and Probability (IEM) 191506103	5	1
Data Science (CSC)	5	2 or 3	Modelling Consumer Behaviour	5	1
Data Science Additional Topics (CSC)	5	3	Operations Research Techniques (IEM) (2018-2019)	5	1
Public Governance & Policy Networks (PA)	5	3	Rail Transport	5	2
Infrastructure Asset Management	5	4	Choice Modelling	5	2
Traffic Management	5	4	Data Science (CSC)	5	2 or 3
Network Equilibrium Analysis	5	4	Land Use and Transport Interactions	5	3
Geospatial Modelling (2019-2020)			Supply Chain Finance (IEM)	5	3
Smart City Engineering (2019-2020)			Data Science Additional Topics (CSC)	5	3
Transport in Smart Cities (2019-2020)			Transportation and Logistics (IEM)	5	3
			Sustainable Transport	5	4
			Infrastructure Asset Management	5	4
			Operations Research Techniques 2 (IEM)	5	4
			Planning and Scheduling (IEM)	5	4
			Warehousing (IEM)	5	4
			Smart City Engineering (2019-2020)		
			Transport in Smart Cities (2019-2020)		
Policy Instr and Evaluation in Environm+Sust. (PA) 194106100	5	3	Discrete Optimization (AM) 191581100	6	1 or 2
Policy Analysis in Public & Technol.Domains (PA) 201100077	5	1	Cognition and Technical Systems (PSY)	5	1 or 3
Methods of Sustainability Assessment (PA) 201100073	5	1	Optimization Modelling (AM) 191581420	5	3
Statistics and probability (IEM) 191506103	5	1	Scientific Computing (AM) 191551200	6	3 or 4
Simulation (IEM; follow-up of Module 8 CiT/TBK) 191820210	5	1	Human Computer Interaction (PSY)	5	3
Cognition and Technical Systems (PSY)	5	1 or 3	Stochastic Models (part of module 8, BSc-TW) 201400434	± 6	4
Electric Vehicle System Design (IDE) 201500009	5	2	Markov Chains & Stoch.Sim. (part mod 8, BSc-TW) 201400434	± 6	4
Public Governance & Policy Networks (PA) 194111240	5	3			
Energy, Sustainability and Society (SET)	5	3			
Human Computer Interaction (PSY)	5	3			

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*		
Thesis **	*EC*	*Quartile*	**Thesis ****	*EC*	*Quartile*
Preparation Master Thesis	5 or 10		Preparation Master Thesis	5 or 10	
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