



Contents

Stu	der	nt information	4
Loc	atio	on information	5
Ove	ervi	iew	6
Pro	gra	am	8
1.	Fι	undamentals	9
2.	Sp	pecializations	10
2	2.1	Specialization TG: Transport Governance	11
2	2.2	Specialization TN: Transport Networks	12
2	2.3	Specialization TO: Traffic Operations	13
2	2.4	Specialization LS: Logistics Systems	14
3.	Fr	ree Electives	15
3	3.1	Electives T&P – Transport and Planning	16
3	3.2	Electives T&L – Transport and Logistics	17
3	3.3	Electives MME – Multi-Machine Engineering	18
3	3.4	External Free Electives	19
3	3.5	TIL and Other Free Electives	20
4.	Pı	Projects and Thesis	21
4	l.1	Projects	22
4	1.2	Thesis	23
Ext	ras.		24
A	٨.	Honours Programme Master	25
E	3.	Schackelprogramma HBO	26
C	2.	Convergentieprogramma WO	27
	C.	1 Convergence Program – Specialization Transport Governance	28
	C.	2.2 Convergence Program – Specialization Transport Networks	28
	C.	2.3 Convergence Program – Specialization Traffic Operations	29
	C.	C.4 Convergence Program – Specialization Logistics Systems	29

Student information

Programme

til.tudelft.nl

Student Portal

student.tudelft.nl

Lecturers

phonebook.tudelft.nl

Courses

studyguide.tudelft.nl

Digital Learning
Environment

brightspace.tudelft.nl

Schedules

mytimetable.tudelft.nl

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Location information



Technische Universiteit Delft Delft University of Technology

MSc Programme
Transport Infrastructure and Logistics

is an interfaculty programme of:

Faculty of Civil Engineering and Geosciences

Building 23 Stevinweg 1 2628 CN Delft Faculty of Technology,
Policy and Management

Building 31 Jaffalaan 5 2628 BX Delft Faculty of Mechanical, Maritime, and Materials Engineering

Building 34 Mekelweg 2 2628 CD Delft

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Overview

MSc Transport, Infrastructure and Logistics 2022 (120 EC)

Courses (75 EC)

1 Fundamentals (28 EC)

TIL4030-20 TIL Research and Design Methods

TIL6022 TIL programming

CIEQ6002 Transport Modelling and Analysis
SEN1221 Statistical Analysis of Choice Behaviour
ME44206 Quantitative Methods for Logistics

ME44312 Machine learning for Transport and Multi-Machine Systems

2 Specialisations

2.1 Specialisation TG - Transport Governance (27 EC)

CIEQ6212 Regions, Transport and Networks
WM1301T Ethics of Transportation
SEN171a Advanced Evaluation Methods for Transport Policy Decision-making
SEN1721 Travel behavior research
TPM032a Multi Criteria Decision Analysis
AR0168 People, Movement and Public Space

2.2 Specialisation TN - Transport Networks (28 EC)

CIEQ6212 Regions, Transport and Networks
CIEM6301 Railway Traffic Management

CIEQ6232 Public Transport Demand and Network Planning and Operations

CIEQ6233 Railway Operations and Control SEN1721 Travel Behaviour Research

AE4423-20 Airline Planning and Optimization

2.3 Specialisation TO - Traffic Operations (27 EC)

CIEQ6003 Traffic Modelling and Management

CIEQ6223 Intelligent Vehicles for Safe and Efficient Traffic: Design and Assessment

SEN9110 Simulation Master Class

ME44200 Operations and Maintenance

ME44305 System Analysis and Simulation

AE4423-20 Airline Planning and Optimization

2.4 Specialisation LS - Logistics Systems (26 EC)

CIEQ6213 Freight Transport Networks and Systems SEN9720 Logistics and Supply Chain Innovations

TPM028a Decision Making in Multimodal Transport Systems

ME44101 Dynamics and Interaction of Material and Equipment

ME44300 Multi-Machine Coordination for Logistics
ME44311 Advanced Operations Management

3 Free Electives

3.1 Free Electives T&P - Transport and Planning

CIEQ6003 Traffic Modelling and Management
CIEM6303 Transitions, Sustainability and Innovations

CIEQ6211 Transport Modelling: Traffic Assignment

CIEQ6212 Regions, Transport and Networks

CIEQ6223 Intelligent Vehicles for Safe and Efficient Traffic: Design and Assessment

CIEQ6222 Traffic safety

CIEQ6224 Urban and Motorway Traffic Flow Modelling and Control

CIEQ6221 Active modes: traffic and transport

Railway traffic management

CIEQ6231 Public Transport System and Supply Planning and Operations

CIEQ6233 Railway operations and control

CIEQ6213 Freight Transport Networks and Systems

CIEQ6232 Public Transport Demand and Network Planning and Operations

3.2 Free Electives T&L - Transport and Logistics

SEN115a Law and Institutions

SEN171a Advanced Evaluation Methods for Transport Policy Decision-making

SEN1721 Travel Behaviour Research

SEN1741 Innovations in Transport and Logistics

SEN9110 Simulation Master Class

SEN9720 Logistics and Supply Chain Innovations

SEN9725 Supply Chain Gaming

TPM004a Transport Safety

TPM023a Cost-Benefit Analysis: Theory and Application
TPM028a Decision Making in Multimodal Transport Systems

TPM032a Multi-criteria Decision Analysis
TPM040a Logistics Systems Engineering

3.3 Electives MME - Multi-Machine Engineering

ME44101 Dynamics and Interaction of Material and Equipment

ME44106 Structural Design with FEM

ME44110 Integration Project Multi-Machine Systems
ME44115 Discrete Element Method (DEM) Simulation

ME44125 Reliability and Maintenance of Transport Equipment

ME44200 Operations and Maintenance

ME44210 Drive & Energy Systems

ME44300 Multi-Machine Coordination for Logistics

ME44305 System Analysis and Simulation
ME44311 Advanced Operations Management

3.4 Other Free Electives

3.4.1 Electives C&O - Control and Operations

AE4321-15 Air Traffic Management

AE4423-20 Airline Planning and Optimization
AE4446 Airport and Cargo Operations

3.4.2 Electives U - Urbanism

AR0168 People, Movement and Public Space

AR0228 Infrastructure and Environment Method Module

AR3CS021 Seminar Cross Domain City of the Future

AR8003TU Legal and Governance

3.4.3 Electives TIL - Other TIL fields

CME2300 Financial Engineering

ME41106 Intelligent Vehicles 3mE

MT44070 Shipping Management RO47016 Automotive Human Factors

WI4062TU Transport, Routing and Scheduling

WM1301TU Ethics of Transportation

3.5 TIL Free Electives

TIL6000 TIL Capita Selecta

TIL6020 TIL Scientific Assignment

Projects and Thesis (45 EC)

4 Projects (15 EC)

TIL4020-20 TIL Research Project

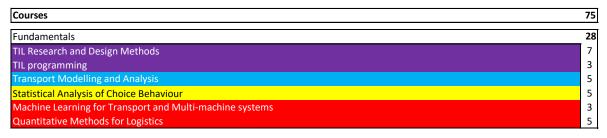
TIL5050-20 TIL Design Project

5 Thesis (30 EC)

TIL5060 TIL Thesis

Program

Category	EC
Courses Fundamentals	75 28
Specialization + Electives	47
Projects and Thesis	45
Projects	15
Thesis	30
Total	120



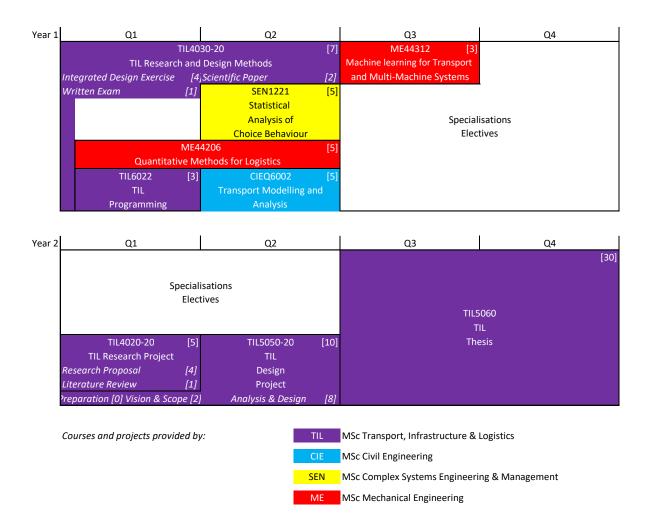
Specialisations								
Transport Governance 27 Transport Networks 28 Traffic Operations				27	Logistics Systems	26		
Regions, Transport and Networks	4	Regions, Transport and Networks	4	Traffic Modelling and Management	6	Freight Transport Networks and Systems	4	
Ethics of Transportation	3	Railway Traffic Management	5	Intelligent Vehicles for Safe and Efficient Traffic	4	Logistics and Supply Chain Innovations	5	
Adv. Evaluation Methods for Transp.Policy Decision making	5	Public Transport Demand and Network Planning and Operations	5	Simulation Master Class	5	Decision Making in Multi- modal Transport Systems	5	
Multi criteria decision analysis	5	Railway Operations and Control	5	Operations and Maintenance	3	Dynamics and Interaction of Material and Equipment	4	
Travel Behaviour Research	5	Travel Behaviour Research	5	System Analysis and Simulation	5	Multi-Machine Coordination for Logistics	3	
People, Movement and Public Space	5	Airline Planning and Optimization	4	Airline Planning and Optimization	4	Advanced Operations and Production Management	5	
Free Electives		Transport & Planning		Transport & Logistics		Multi-Machine Engineering		
TIL electives		Control & Operations		Urbanism		Other electives		

Projects and Thesis		
Projects TIL Research Project TIL Design Project		
Thesis TIL Thesis		
Courses and projects provided by:	MSc Civil Engineering MScTIL	MSc CoSEM MSc Mechanical Engineering MSc Aerospace Engineering MSc Architecture*

^{*}Courses offered by MSc Architecture require registration into the BIS system (https://bis.bk.tudelft.nl/student)

1. Fundamentals

	Course		EC
TIL4030-20 TIL4030-20 P1	3 3	4	7
TIL4030-20 P2 TIL4030-20 P3		1 2	
TIL6022	TIL Programming		3
CIEQ6002	Transport Modelling and Analysis		5
SEN1221	Statistical Analysis of Choice Behaviour		5
ME44312	Machine learning for Transport and Multi-Machine Systems		3
ME44206	Quantitative Methods for Logistics		5
	Total		28
	Compulsory		



2. Specializations

Specialisation TG: Transport Governance (27 EC) Specialisation TN: Transport Networks (28 EC) Specialisation TO: Traffic Operations (27 EC) Specialisation LS: Logistics Systems (26 EC)

Choose 1 Specialization

Transport Governance	Transport Networks		Traffic Operations		Logistics Systems		
Regions, Transport and Networks	4	Regions, Transport and Networks	4	Traffic Modelling and Management	6	Freight Transport Networks and Systems	4
Ethics of Transportation	3	Railway Traffic Management	5	Intelligent Vehicles for Safe	4	Logistics and Supply Chain Innovations	5
Adv. Evaluation Methods for Transp.PolicyDecision making	5	Public Transport Demand and Network Planning and Operations	5	Airline Planning and Optimization	4	Decision Making in Multi- modal Transport Systems	5
Travel Behaviour Research	5	Railway Operations and Control	5	Simulation Master Class	5	Dynamics and Interaction of Material and Equipment	4
Multi criteria decision analysis	5	Travel Behaviour Research	5	Operations and Maintenance	3	Multi-Machine Coordination for Logistics	3
People, Movement and Public Space	5	Airline Planning and Optimization	4	System Analysis and Simulation	5	Advanced Operations and Production Management	5

Courses provided by:

MSc Civil Engineering

MSc Complex Systems Engineering & Management

MSc Mechanical Engineering

MSc Aerospace Engineering

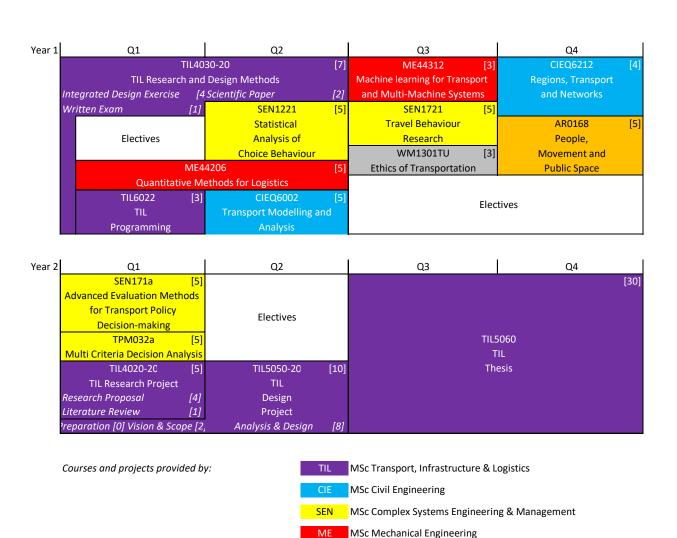
MSc Architecture, Urbanism & Building Sciences

Interfaculty education

2.1 Specialization TG: Transport Governance

	Course	EC
CIEQ6212	Regions, Transport and Networks	4
SEN1721	Travel Behaviour Research	5
SEN171a	Advanced Evaluation Methods for Transport Policy Decision-making	5
TPM032a	Multi Criteria Decision Analysis	5
WM1301TU	Ethics of Transportation	3
AR0168	People, Movement and Public Space	5
	Total	27

In a chosen specialisation all courses are compulsory



AR

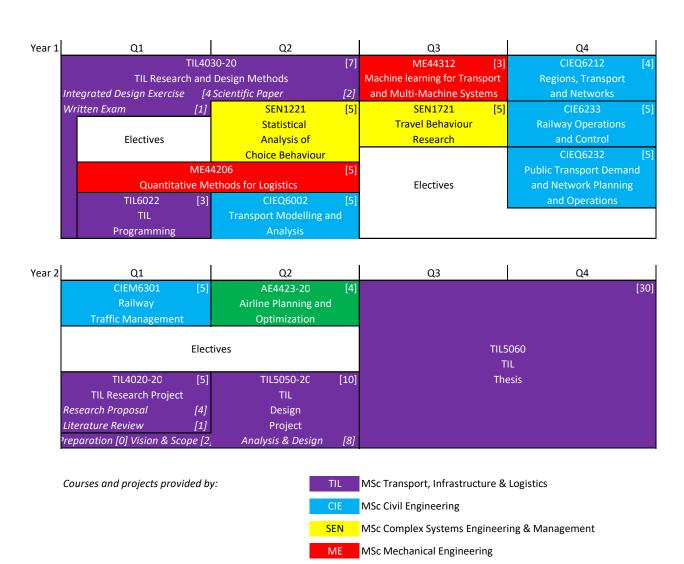
Interfaculty Education

MSc Architecture, Urbanism & Building Sciences

2.2 Specialization TN: Transport Networks

	Course	EC
CIFOCATA	Desires Transport and Native de	4
CIEQ6212	Regions, Transport and Networks	4
CIEM6301	Railway Traffic Management	5
CIEQ6233	Railway Operations and Control	5
CIEQ6232	Public Transport Demand and Network Planning and Operations	5
SEN1721	Travel Behaviour Research	5
AE4423-20	Airline Planning and Optimization	4
	Total	28

In a chosen specialisation all courses are compulsory



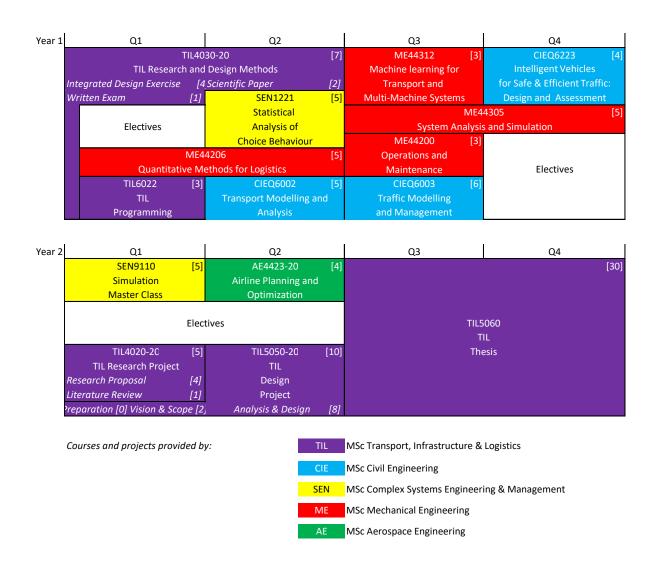
MSc Aerospace Engineering

MSc Architecture, Urbanism & Building Sciences

2.3 Specialization TO: Traffic Operations

	Course	EC
CIEQ6003 CIEQ6223 SEN9110	Traffic Modelling and Management Intelligent Vehicles for Safe and Efficient Traffic: Design and Assessment Simulation Master Class	6 4 5
ME44200	Operations and Maintenance	3
ME44305	System Analysis and Simulation	5
AE4423-20	Airline Planning and Optimization	4
	Total	27

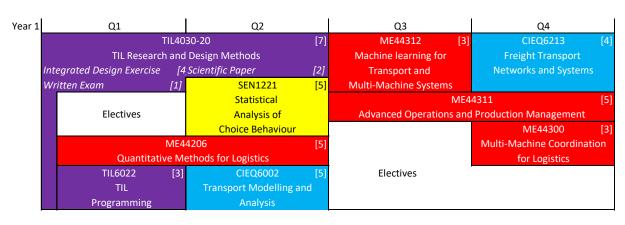
In a chosen specialisation all courses are compulsory

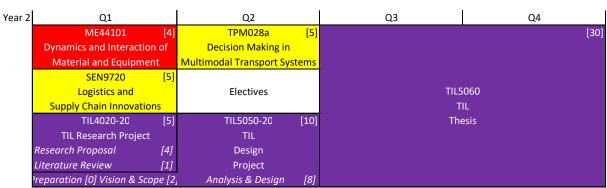


2.4 Specialization LS: Logistics Systems

	Course	EC
CIEQ6213	Freight Transport Networks and Systems	4
SEN9720	Logistics and Supply Chain Innovations	5
TPM028a	Decision Making in Multimodal Transport Systems	5
ME44101	Dynamics and Interaction of Material and Equipment	4
ME44300	Multi-Machine Coordination for Logistics	3
ME44311	Advanced Operations and Production Management	5
	Total	26

In a chosen specialisation all courses are compulsory





Courses and projects provided by:

TIL MSc Transport, Infrastructure & Logistics

CIE MSc Civil Engineering

SEN MSc Complex Systems Engineering & Management

ME MSc Mechanical Engineering

AE MSc Aerospace Engineering

AR MSc Architecture, Urbanism & Building Sciences

3. Free Flectives

Free Electives T&P - Transport and Planning
Free Electives T&L - Transport and Logistics
Free Electives MME - Multi-Machine Engineering

Free External electives

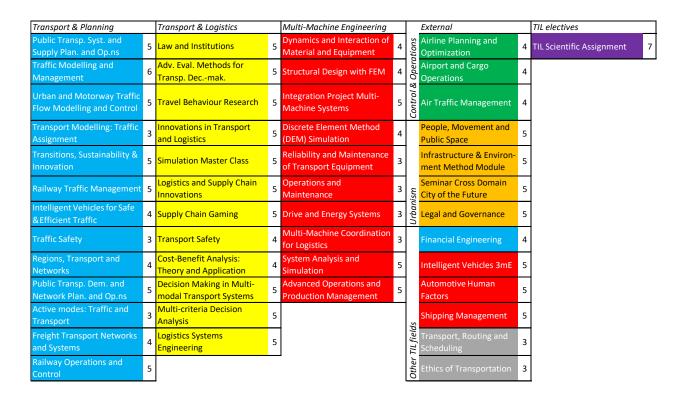
Free Electives C&O - Control and Operations

Free Electives U - Urbanism

Free Electives TIL - Other TIL fields

Choose any free elective from the list. Choices outside the list are subject to the approval of the Board of Examiners and should be preliminarily checked by the program coordinator.

Minimum number of credits required per specialization: TG (20EC), TN (19EC), TO (20EC), LS(21 EC)





Course is part of Specialisation TG - Transport Governance

Course is part of Specialisation TN - Transport Networks

Course is part of Specialisation TO - Traffic Operations

Course is part of Specialisation LS - Logistics Systems

(TN)

(TO)

(LS)

3.1 Electives T&P – Transport and Planning

	Course	EC
CIEQ6231	Public Transport System and Supply Planning and Operations	5
CIEQ6003	Traffic Modelling and Management	6
CIEQ6224	Urban and Motorway Traffic Flow Modelling and Control	5
CIEQ6211	Transport Modelling: Traffic Assignment	3
CIEQ6212	Regions, Transport and Networks	4
CIEQ6223	Intelligent Vehicles for Safe and Efficient Traffic: Design and Assessme	ı 4
CIEQ6222	Traffic safety	3
CIEM6303	Transitions, Sustainability & Innovation	5
CIEQ6221	Active modes: traffic and transport	3
CIEQ6233	Railway operations and control	5
CIEQ6213	Freight Transport Networks and Systems	4
CIEQ6232	Public Transport Demand and Network Planning and Operations	5
CIEM6301	Railway traffic management	5

Choose only courses not already chosen as part of specialisation

Q1	Q2	Q3			Q	.4	
(TN) CIEM6301 [5]		(TO) CIEQ6003	[6]	CIEQ6231 [5	5]	(LS) CIEQ6213	[4]
Railway Traffic		Traffic Modelling and		Public Transp. System	1	Freight Transport Networks	S
Management		Management		& Supply Plann. & Op.ns		and Systems	
CIEM6303 [5]				(TN) CIEQ6233 [5	5]	(TN) CIEQ6232	[5]
Transitions, Sustainability				Railway Operations	1	Public Transp. Demand	
& Innovations				and Control	1	& Netw. Plann & Op.tions	5
				(TO) CIEQ6223 [4	4]	CIEQ6211	[3]
				Intelligent Vehicles for	1	Transport Modelling:	
				Safe & Efficient Traffic	1	Traffic Assignment	
				CIEQ6221 [5	5]	(TG -TO) CIEQ6212	[4]
				Active Modes:	1	Regions,	
				Traffic and Transport	1	Transport and Networks	
					٦	CIEQ6222	[3]
					1	Traffic Safety	
					1		
					ı	CIEQ6224	[5]
					1	Urban and Motorway	
Courses provided by:					ŀ	Traff. Flow Mod. and Control	
					_		
CIE MSc Civil Engineering							
Track Traffic and Trans	port Engineering						

3.2 Electives T&L – Transport and Logistics

	Course	EC
SEN115a	Law and Institutions	5
SEN171a	Advanced Evaluation Methods for Transport Policy Decision-making	5
SEN1721	Travel Behaviour Research	5
SEN1741	Innovations in Transport and Logistics	5
SEN9110	Simulation Master Class	5
SEN9720	Logistics and Supply Chain Innovations	5
SEN9725	Supply Chain Gaming	5
TPM004a	Transport Safety	4
TPM023a	Cost-Benefit Analysis: Theory and Application	4
TPM028a	Decision Making in Multimodal Transport Systems	5
TPM032a	Multi-criteria Decision Analysis	5
TPM040a	Logistics Systems Engineering	5

Choose only courses not already chosen as part of specialisation

	Q1		Q2		Q3		Q4
(TG)	SEN171a	[5]	SEN1741	[5]	SEN115a	[5]	
Adva	anced Evaluation Meth	ods	Innovations in		Law and		
for T	ransport Decision-mak	ing	Transport and Logistics		Institutions		
(TO)	SEN9110	[5]	SEN9725	[5]	(TG - TN) SEN1721	[5]	
	Simulation		Supply Chain		Travel Behaviour		
	Master Class		Gaming		Research		
(LS)	SEN9720	[5]	(LS) TPM028a	[5]			
	Logistics and		Decision Making in				
Su	upply Chain Innovation	S	Multimodal Transport Syste	ems			
(P)	TPM004a	[4]	TPM040a	[5]			
	Transport		Logistics Systems				
	Safety		Engineering				
	TPM023a	[4]					
	Cost-Benefit Analysis:						
T	Theory and Application						
(TG)	TPM032a	[5]					
	Multi-criteria						
	Decision Analysis						

Courses provided by:

SEN	MSc Systems Engineering, Policy Analysis and Management
	Track Transport & Logistics
(TG)	Course is part of Specialisation TG - Transport Governance
(TN)	Course is part of Specialisation TN - Transport Networks
(TO)	Course is part of Specialisation TO - Traffic Operations
(LS)	Course is part of Specialisation LS - Logistics Systems

3.3 Electives MME – Multi-Machine Engineering

	Course	EC
ME44101	Dynamics and Interaction of Material and Equipment	4
ME44106	Structural Design with FEM	4
ME44110	Integration Project Multi-Machine Systems	5
ME44115	Discrete Element Method (DEM) Simulation	4
ME44125	Reliability and Maintenance of Transport Equipment	3
ME44200	Operations and Maintenance	3
ME44210	Drive & Energy Systems	3
ME44300	Multi-Machine Coordination for Logistics	3
ME44305	System Analysis and Simulation	5
ME44311	Advanced Operations and Production Management	5

Choose only courses not already chosen as part of specialisation

Q1	Q2	Q3	Q4
(LS) ME44101 [4]	ME44106 [4]	ME4	4110 [5]
Dynamics and Interaction of	Structural Design	Integration	on Project
Material and Equipment	with FEM	Multi-Mach	ine Systems
ME44210 [3]		ME44115 [4]	(LS) ME44300 [3]
Drive & Energy		Discrete Element Method (DEM)	Multi-Machine Coordination
Systems		Simulation	for Logistics
		ME44125 [3]	(TO) ME44200 [3]
		Reliability and Maintenance	Operations and
		of Transport Equipment	Maintenance
		(TO) ME4	4305 [5]
		System	Analysis
		and Sin	nulation
		(LS) ME4	4311 [5]
		Advanced Op	perations and
		Production N	Management

Courses provided by:

ME	MSc Mechanical Engineering
	Track Multi-Machine Engineering
(TG)	Course is part of Specialisation TG - Transport Governance
(TN)	Course is part of Specialisation TN - Transport Networks
(TO)	Course is part of Specialisation TO - Traffic Operations
(LS)	Course is part of Specialisation LS - Logistics Systems

3.4 External Free Electives

Free Electives C&O - Control and Operations Free Electives U - Urbanism Free Electives TIL - Other TIL fields

Choose only courses not already chosen as part of specialisation

Q1		Q2		Q3		Q4	
	AR30	CS021	[5]	(TG) WM1301TU	[3]	(TG) AR0168	[5]
Semin	ar Cr	oss Domain		Ethics of		People, Movement an	d
City	of t	he Future		Transportation	n	Public Space	
AR8003TU	[5]	AR0228	[5]	MT44070	[5]	AR0228	[5]
Legal and		Infrastructure and Environ	ment	Shipping		Infrastructure and Environ	ment
Governance		Method Module		Managemer	t	Method Module	
CME2300	[4]		AE43		[4]	RO47016	[5]
Financial			Air	raffic		Automotive	
Engineering			Mana	gement		Human Factors	
WI4062TU	[3]	(TN - TO) AE4423-20	[4]				
Transport, Routing		Airline Planning and					
and Scheduling		Optimisation					
		AE4446	[4]				
		Airport and Cargo					
		Operations					
		ME41106	[5]				
		Intelligent					
		Vehicles 3mE					
Courses provided by:				MSc Aerosn	ace Engine	ering, Track Control & Oper	ations
courses provided by.					Ü	ering, Truck Control & Open	400113
				AR Electives	i		
				CEG Elective	es		
				3mE Electiv	es		
				Interfaculty	Education	EEMCS / TPM	
(70)							
(TG) Course is part of	Spe	cialisation TG - Transport Go	vern	ance			

- (TN) Course is part of Specialisation TN Transport Networks
- (TO) Course is part of Specialisation TO Traffic Operations
- (LS) Course is part of Specialisation LS Logistics Systems

3.5 TIL and Other Free Electives

Course EC

TIL6020

TIL Scientific Assignment Free electives (Require approval)

7



L	Q1	Q2	Q3	Q4
Free elective		Free elective	Free elective	Free elective
	TIL6020 [7]	TIL6020 [7]	TIL6020 [7]	TIL6020 [7]
		TIL	TIL	TIL
	Scientific Assignment	Scientific Assignment	Scientific Assignment	Scientific Assignment

Courses provided by:

MSc Transport, Infrastructure and Logistics



Universiteit Leiden Leiden



Erasmus Universiteit ... Rotterdam



Technische Universiteit ... Eindhoven



Universiteit Twente Enschede



Wageningen University ... Wageningen



Tilburg University Tilburg



Universiteit van Amster... Amsterdam



Vrije Universiteit ... Amsterdam



Universiteit Utrecht Utrecht



Rijksuniver... Rac Groningen Uni Groningen Nijr



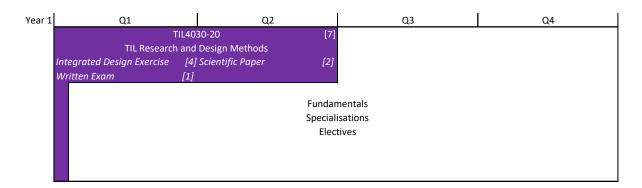
Radboud Universiteit Nijmegen

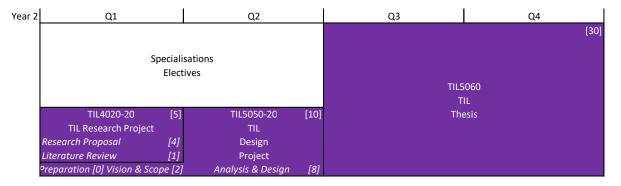


Maastricht University Maastricht

4. Projects and Thesis

Project type	EC
Projects Thesis	15 30
Total	45



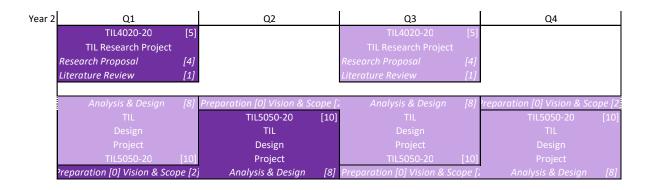


Courses and projects provided by:

MSc Transport, Infrastructure and Logistics

4.1 Projects

	Project		EC
TIL4020-20 P1	TIL Research Project Research Proposal Literature Review	4	5
TIL4020-20 P2 TIL5050-20 TIL5050-20 P0 TIL5050-20 P1 TIL5050-20 P2	TIL Design Project Preparation Vision & Scope Analysis & Design	1 0 2 8	10
	Total		15



Projects provided by:

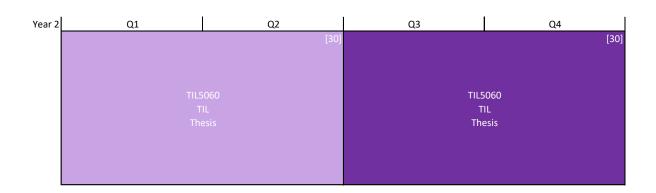
MSc Transport, Infrastructure and Logistics

4.2 Thesis

Project EC

TIL Thesis 30

Compulsory



Projects provided by:

MSc Transport, Infrastructure and Logistics

Extras

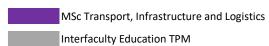
- A Honours Programme Master
- B Schakelprogramma HBO (Bridging Programme)
- C Convergentieprogramma WO (Convergence Programme)
 - C.1 Convergence Programme: Specialisation TG Transport Governance
 - C.2 Convergence Programme: Specialisation TN Transport Networks
 - C.3 Convergence Programme: Specialisation TO Traffic Operations
 - C.4 Convergence Programme: Specialisation LS Logistics Systems

A. Honours Programme Master

	Course or project	EC
UD2010 UD2012 TPM019A	Interfaculty course 5 credits - Choose one course Critical Reflection on Technology Business Leadership for Engineers Leadership Skills for Engineers	5 5 5
TIL6020	TIL Scientific Assignment Thematically consistent set of Electives Total	7 8 20
	Optional 20 EC on top of MSc programme	

Q1	Q2	Q3	Q4
Electives	Electives	Electives	Electives
TIL6020 [7] TIL6020 [7]	TIL6020 [7]	TIL6020 [7]
TIL Scientific	TIL Scientific	TIL Scientific	TIL Scientific
Assignment	Assignment	Assignment	Assignment
UD2010 [5	UD2010 [5]	UD2	2012 [5]
Critical Reflection	Critical Reflection	Business L	eadership
on Technology	on Technology	for Eng	gineers
TPM019a [5			UD2010 [5]
Leadership Skills			Critical Reflection
for Engineers			on Technology

Courses provided by:



B. Schackelprogramma HBO

	Vak	EC
IFEEMCS012100	5 5	3
IFEEMCS012200	5 5,	3
IFEEMCS012300	Calculus for Engineering, deel 3	3
IFEEMCS010400	Lineaire Algebra	5
IFEEMCS010500	Kansrekening en Statistiek	3
WI1909TH	Differentiaalvergelijkingen	3
CTB1420-17	Transport & Planning	5
TB111c	Probleemanalyse	5
	Totaal	30

Verplicht of te ronden vóór aanvang MSc-opleiding

Schakeljaar	ar Q1		Q2	Q3	Q4	
	IFEEMCS012100	[3]	IFEEMCS012200 [3]	IFEEMCS012300 [3]	IFEEMCS010500	[3]
	Calculus for Engineeri	ng	Calculus for Engineering	Calculus for Engineering	Kansrekening en	
	deel 1		deel 2	deel 3	Statistiek	
	IFEEMCS010400	[5]	WI1909TH [3]		CTB1420-17	[5]
	Lineaire		Differentiaal-		Transport &	
	Algebra		vergelijkingen		Planning	
	TB111c	[5]				
	Probleem-					
	analyse					

Vak afkomstig uit:

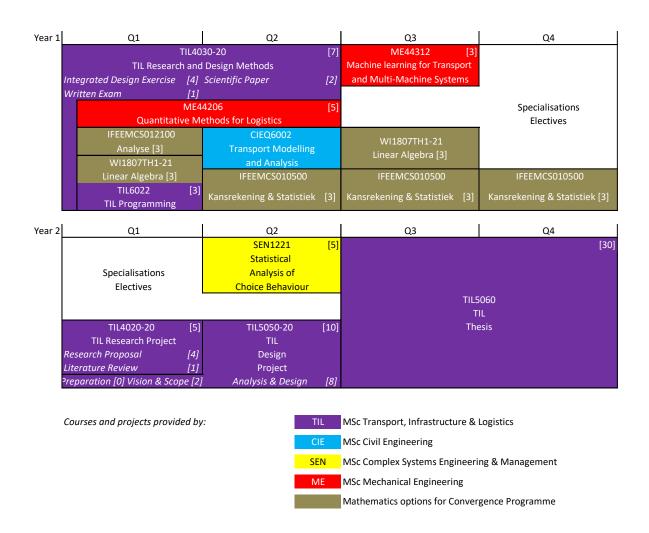
IFEEMCS Interfacultair onderwijs EWI

CTB BSc Civiele Techniek

TB BSc Technische Bestuurskunde

C. Convergentieprogramma WO

	Vak	Onderdeel	EC
IFEEMCS012100	Analyse Calculus for Eng ingangseis voor	ineering, deel 1 CIE4801-18 Transport Modelling	3
WI1807TH1-21	Lineaire Algebro Linear Algebra ingangseis voor	o CIE4801-18 Transport Modelling	3
IFEEMCS010500	Kansrekening ei Kansrekening ei ingangseis voor		3 our
	Op te	nemen als Free Elective in MSc-opleiding	



C.1 Convergence Program – Specialization Transport Governance

Year 1	Q1	Q2	1	Q3		Q4
	TIL4030-20			ME44312	[3]	CIEQ6212 [4]
	TIL Research and	Design Methods		Machine learning for Transport		Regions
	Integrated Design Exercise [4]	Scientific Paper [2	2]	and Multi-Machine Systems		Transport and
	Written Exam [1]			SEN1721	[5]	Networks
	ME4	.4206 [5	5]	Travel Behaviour		AR0168 [5]
	Quantitative M	ethods for Logistics		Research		People, Movement
	IFEEMCS012100	CIEQ6002 [5	5]	WM1301TU	[3]	and Public Space
	Analyse [3]	Transport Modelling		Ethics of Transportation		
	WI1807TH1-21	and Analysis				Electives
	Linear Algebra [3]	IFEEMCS010500		Kansrek. & Statistiek [3]		
	TIL6022 [3]	Kansrekening & Statistiek [3]	ı -			Kansrek. &
	TIL Programming	Kansiekening & Statistick [5]	1	Lineaire Algebra 1 [3]		IFEEMCS010500 Statistiek [3]
		1				1
Year 2		Q2		Q3		Q4
	SEN171a [5]		5]			[30]
	Advanced Evaluation Methods	Statistical				
	for Transport Policy	Analysis of				
	Decision-making	Choice Behaviour				
	TPM032a [5]	Electives		TI	IL50	160
Multi Criteria Decision Analysis TIL4020-20 [5]					TIL	
		TIL5050-20 [10	.0]	1	Thes	sis
	TIL Research Project TIL					
	Research Proposal [4]	Design				
	Literature Review [1]	Project				
	Preparation [0] Vision & Scope [2)	8]			

C.2 Convergence Program – Specialization Transport Networks

e.z convergence riogram specialization riansport wetworks						
Year 1	Q1		Q2	Q3	Q4	
	TI	IL40	30-20 [7]	ME44312 [3	CIEQ6212 [4]	
	TIL Research	and	Design Methods	Machine learning for Transport	Regions, Transport	
	Integrated Design Exercise	[4]	Scientific Paper [2]	and Multi-Machine Systems	and Networks	
	Written Exam	[1]		SEN1721 [5	CIE6233 [5]	
	l l	ME4	4206 [5]	Travel Behaviour	Railway Operations	
	Quantitative	e Me	thods for Logistics	Research	and Control	
	IFEEMCS012100		CIEQ6002 [5]		CIEQ6232 [5]	
	Analyse [3]		Transport Modelling	Electives	Public Transport Demand	
	WI1807TH1-21		and Analysis		and Network Planning	
	Linear Algebra [3]		IFEEMCS010500	Kansrek. & Statistiek [3]	and Operations	
	TIL6022	[3]	Kansrekening & Statistiek [3]		-	
	TIL Programming		numbrenemma & Statistick [5]	Lineaire Algebra 1 [3]		
., .	l 04		0.2			
Year 2		f=1	Q2	Q3	Q4	
	CIEM6301	[5]	AE4423-20 [4]		[30]	
	Railway		Airline Planning and			
	Traffic Management		Optimization			
			SEN1221 [5]			
			Statistical Analysis of		5060	
			Choice Behaviour		ΠL	
	TIL4020-20	[5]	TIL5050-20 [10]	Th	esis	
	TIL Research Project		TIL			
		[4]	Design			
	Literature Review	[1]	Project			
	reparation [0] Vision & Scope	e [2]	Analysis & Design [8]			

C.3 Convergence Program – Specialization Traffic Operations

Year 1		Q2	ĺ	Q3	Q4	
	TIL4	030-20 [7	7]	ME44312 [3]	CIEQ6223 [4]	
	TIL Research an	d Design Methods	Machine learning	Intelligent Vehicles		
	Integrated Design Exercise [4]	Scientific Paper [2	2]	for Transport	for Safe & Efficient Traffic:	
	Written Exam [1]			and Multi-Machine Systems	Design and Assessment	
	ME	44206 [5	5]	ME44	1305 [5]	
		lethods for Logistics		System Analysis and Simulation		
	IFEEMCS012100		5]	ME44200 - Operations and Maintenance [3]		
	Analyse [3]	Transport Modelling	ı	CIEQ6003 - Traffic Modelling and Management [6]		
	WI1807TH1-21	and Analysis	4	Cie Quodo Tranie Moderning and Management [0]	_, .	
	Linear Algebra [3]	IFEEMCS010500		Kansrek. & Statistiek [3]	Electives	
	TIL6022 [3	Kansrekening & Statistiek [3]	ı	Lineaire Algebra 1 [3]	IFEEMCS010500 Kansrek. &	
	TIL Programming				Statistiek [3]	
Year 2	Q1	Q2	ı	Q3	Q4	
	SEN9110 [5	AE4423-20 [4	4]		[30]	
	Simulation	Airline Planning and				
	Master Class	Optimization				
			5]			
	Electives	Statistical Analysis of		TIL50		
		Choice Behaviour	_	TII		
	TIL4020-20 [5	·	0]	The	sis	
	TIL Research Project	TIL				
	Research Proposal [4]	_				
	Literature Review [1]	-	01			
	Preparation [0] Vision & Scope [2	?]	5]			

C.4 Convergence Program – Specialization Logistics Systems

