

Overview

MSc Transport, Infrastructure and Logistics 2021 (120 EC)

Courses (75 EC)

1 Fundamentals (23 EC)

TIL4030-20 TIL Research and Design Methods

CIE4801-18 Transport Modelling

SEN1221 Statistical Analysis of Choice Behaviour

ME44206 Quantitative Methods for Logistics

2 Specialisations (27 EC) (1 specialisation)

2.1 Specialisation P - Policy: Infrastructure, Planning and Environment (27 EC)

CIE5816 Urban Regions, Transport and Economics

CIE5817 Assessment of Transport Infrastructure and Systems

SEN171a Advanced Evaluation Methods for Transport Policy Decision-making

TPM004a Transport Safety

AR0168 People, Movement and Public Space

AR0228 Infrastructure and Environment Method Module

2.2 Specialisation D - Design: Transport Systems and Networks (27 EC)

CIE4811-18 Planning and Operations of Public Transport Systems

CIE5803-18 Railway Traffic Management

CIE5826 Railway Operations and Control

SEN1721 Travel Behaviour Research

AE4423-20 Airline Planning and Optimization

AE4426 Airport Operations

2.3 Specialisation O - Operations: Traffic, Technology and Control (27 EC)

CIE4825 Traffic Flow Modelling and Control Part 1

CIE5821 Traffic Flow Modelling and Control Part 2

CIE5805-18 Intelligent Vehicles for Safe and Efficient Traffic: Design and Assessment

SEN9110 Simulation Master Class

ME44200 Operations and Maintenance

ME44305 System Analysis and Simulation

2.4 Specialisation E - Engineering: Transport, Logistics and Supply Chains (27 EC)

CIE5830 Freight Transport Systems: Analysis and Modelling

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 Electives (25 EC)

3.1 Electives T&P - Transport and Planning (at least 1 course)

CIE4811-18 Planning and Operations of Public Transport Systems

CIE4825 Traffic Flow Modelling and Control Part 1

CIE4831-18 Empirical Analysis for Transport and Planning

CIE4845 Emerging Topics for Transport & Planning

CIE5802-18 Advanced Transportation Modelling

CIE5803-18 Railway Traffic Management

CIE5805-18 Intelligent Vehicles for Safe and Efficient Traffic: Design and Assessment

CIE5810-19 Traffic Safety

CIE5815 Resilient Transport Systems: Analysis and Interventions

CIE5816 Urban Regions, Transport and Economics

CIE5817 Assessment of Transport Infrastructure and Systems

CIE5821 Traffic Flow Modelling and Control Part 2

CIE5822 Active modes: Traffic and Transport

CIE5825 Advanced Public Transport Modelling and Operations

CIE5826 Railway Operations and Control

CIE5830 Freight Transportation Systems: Analysis and Modelling

3.2 Electives T&L - Transport and Logistics (at least 1 course)

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

3.3 Electives MME - Multi-Machine Engineering (at least 1 course)

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 and Production Management
ME44312	Machine Learning for Transport and Multi-Machine Systems

3.4 External electives (at least 1 course)

3.4.1 Electives C&O - Control and Operations

AE4321-15	Air Traffic Management
AE4423-20	Airline Planning and Optimization
AE4446	Airport 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

CIE4330	Ports and Waterways 1
CIE4874	Elements of Railway Engineering
CIE5306	Ports and Waterways 2
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 Free electives (optional)

TIL6000	TIL Capita Selecta
TIL6010	TIL Programming
TIL6020	TIL Scientific Assignment
	Free electives

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
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