



TRAIL basic course program (March 2019)

Introduction to TRAIL and the PhD student process (0.5d) (Marchau & Van Wee)	TRAIL	S	0.25	0.5	discipline/ research
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I TRAIL Basic Courses ⁰	By	Part ²	ECTS ³	TUD GS credits ^{3,4}	TUD GS category
TRAIL Fundamental Domain Knowledge (4d) ^{1,5} (Annema & Van Wee)	OML	D	1 - 4	4 - 5	discipline
TRAIL Theories and Methods (3d) (Marchau & others)	TRAIL	T, M	1 - 3	3 - 5	discipline/ research ⁶

II General TRAIL Courses ¹	By	Part ²	ECTS ³	TUD GS credits ^{3,4}	TUD GS category
TRAIL Data-analysis and Statistics (3d) ⁵ (Kroesen & Molin)	TRAIL	S	1 - 3	3 - 5	discipline/ research
Machine Learning (4d) ⁵ (Van Hoesel)	OML	M	1 - 4	4 - 5	discipline/ research
TRAIL Writing a Literature Review in the TIL Domain (2d) (Van Wee)	TRAIL	S	1 - 4	2 - 5	discipline/ research
Societal Relevance of your PhD Research (1d) (Annema & Van Wee)	TRAIL	S	0.25 – 1	0.5 - 2	discipline/ research
Writing and Publishing a TRAIL Research Article (1d) (Geurs & Rezaei)	TRAIL	S	0.5 - 1	1 - 2	discipline/ research
Discrete Choice Analysis: micro-econometrics and machine learning approaches (3d) (Chorus & Van Cranenburgh)	TRAIL	T	2	3	discipline/ research
Stated Choice Data Collection (Rasouli & Caiati)	TRAIL	M	1	2	discipline/ research
Transport Innovations (1d) (Annema, Geerlings & Wiegmans)	TRAIL	D	1 - 2	1 - 3	discipline

III TRAIL Specialisation Courses ¹	By	Part ⁷	ECTS ³	TUD GS credits ^{3,4}	TUD GS category
Traffic Flow Phenomena (3d) (Hoogendoorn/Van Lint)	TRAIL	I	1 - 3	3 - 5	discipline
Behavioural Aspects in Transport (1d) (De Waard & Veldstra)	TRAIL	I	0.5 – 1	1 - 2	discipline
Transport Logistics Modelling (4d) ⁵ (Tavasszy & Zuidwijk)	OML	L	1 - 4	4 - 5	discipline/ research
Facility Logistics Management (4d) ⁵ (Adan & De Koster)	OML	L	1 - 4	4 - 5	discipline
Quantitative Modelling and Analysis of Supply Chains (4d) ⁵ (De Kok)	OML	L	1 - 4	4 - 5	discipline/ research
Advanced Inventory Theory (4d) ⁵ (Dekker & Van Houtum)	OML	L	1 - 4	4 - 5	discipline
Freight Transport Management (4d) ⁵ (Vis & Coelho)	OML	L	1 - 4	4 - 5	discipline
Passenger Transport Systems (4d) ⁵ (Cats & Schmidt)	OML	L	1 - 4	4 - 5	discipline

Yearly
Every 1,5 years
Every 2 years

⁰ Mandatory courses for the TRAIL Diploma

¹ Between brackets number of course days

² D= Domain Knowledge

T = Theory

M = Methodology

S = Skills

³ First number = participated in course – second number = participated in course & passed assignment/exam

⁴ The Promotor decides about the number of TUD GS credits to be administered in DMA

⁵ Courses given by TRAIL and Research School Beta within the Graduate Program Operations Management and Logistics (GP-OML).

⁶ PhD student can choose either category, since TRAIL 'methodology' and 'skills' courses are strongly linked to the TRAIL 'discipline'

⁷ T: Transport, I: Infrastructure, L: Logistics

► Detailed information on all courses: www.rstrail.nl