

Second year Track elective programme – Accepted Track electives

If you wish to take a course in the area of your Track (at TU Delft or other universities) that is not mentioned here, you can suggest this course to the track coordinator:

- Energy (E) [Lydia Stougie](#)
- Information & Communication (I&C) [Sepinoud Azimi Rashti](#)
- Transport & Logistics (T&L) [Jan Anne Annema](#)

The Examination Board will decide whether you can indeed take that course as Track Elective. Check the [study guide](#) for the courses offered by TU Delft.

ENERGY (Lydia Stougie)

NB: check the course descriptions for the expected prior knowledge, especially the courses marked with (*), as some courses are only feasible for students with a specific BSc degree.

Accepted electives Energy track in Q1 + Q2

AE4T40	Airborne Wind Energy
AE4W02TU	Introduction to Wind Turbines: Physics and Technology (*)
AP3333	Physics of Energy Materials (*)
AP3352	Introduction to Nuclear Science and Engineering
CH3632	Chemistry and Physics of Solar Cells
CH3771	Nuclear Chemistry
ET4103	High Voltage Technology (*)
ET4107	Power Systems Analysis II (*)
ET4117	Electrical Machines and Drives (*)
ET4376	Photovoltaic Basics
GEO5014	Geomatics as support for energy applications(*)
ME45001	Advanced Heat Transfer (*)
ME45075	Refrigeration & Heat Pumps Fundamentals (*)
SET3014	Renewable Energy (*)
SET3070	Thermochemistry of Biomass Conversion (*)
SET3080	The Necessity of Storage Technology
SET3090	Fossil-Free Fuel and Feedstock (discontinued; only exam possibility in 2022-2023)
TPM0931SET	Sustainable Energy Innovation and Transitions

Accepted electives Energy track in Q3 + Q4

AE4W09	Wind Turbine Design (*)
AE4W31	Floating Offshore Wind Energy
AESM1400	<i>Geothermal Energy (discontinued; only exam possibility in 2022-2023)</i>
AP3341	Nuclear Reactor Physics
CH3222	<i>Energy Storage in Batteries (*) (discontinued, new course code: SET3110)</i>
CH3513	Electrochemistry for renewable energy (*)
CH3783	Materials Chemistry for the Nuclear Fuel Cycle (*)
CIE5304	<i>Waterpower Engineering (discontinued; only exam possibility in 2022-2023)</i>
EE4545	Electrical Power Systems of the Future (*)
EE4655	Co-simulation of Energy Systems
ET4377	Photovoltaic Technologies (*)
ET4378	Photovoltaic Systems (*)
ME45160	Advanced Applied Thermodynamics (*)
ME45165	Equipment for Heat & Mass Transfer (*)
ME45201	Electrochemical Energy Storage (*)
ME45203	Electrolysers, Fuel Cells and Batteries (*)
OE44076	Offshore Renewable Energy
OE44120	<i>Offshore Wind Farms Design (discontinued; only exam possibility in 2022-2023)</i>
SET3065	Intelligent Electrical Power Grids (*)
SET3085	Hydrogen technology (*)
SET3110	Energy Storage in Batteries (*)
SET3995	Direct use of Geothermal Energy

I&C (Sepinoud Azimi Rashti)

Accepted electives I&C track in Q1 + Q2

CS4015	Behaviour Change Support Systems
GEO1002	Geographical Information Systems (GIS) and Cartography
GEO1003	Positioning and Location Awareness

[ID5311-TB](#) *Design innovation 4.0 in supply networks – not offered*
[IN4191](#) Security and Cryptography
[IN4252](#) Web Science & Engineering
[IN4392](#) *Cloud Computing – not offered*
[SEN9720](#) Logistics and Supply Chain Innovations
[TPM027a](#) Cyber Risk Management

Accepted electives I&C track in Q3 + Q4

[CS4145](#) Crowd Computing
[IN4185](#) *Globally Distributed Software Engineering – not offered*
[IN4315](#) Software Architecture
[IN4391](#) *Distributed Systems – not offered*
[MOT1531](#) Digital Business Process Management
[TPM030a](#) Introduction to Cloud as Infrastructure: the effects of the new business of computing on practice

T&L (Jan Anne Annema)

Accepted electives T&L track in Q1 + Q2

[AE441-16](#) Operations optimisation
[AE4422-20](#) Agent-based Modelling and Simulation in Air Transport
[AE4423-20](#) Airline Planning & Optimization
[AE4431](#) Aircraft noise and emissions
[AR3CS021](#) Seminar Cross Domain City of the Future
[CIE4330](#) *Ports and Waterways (discontinued; only exam possibility in 2022-2023)*
[CIE4811-18](#) *Planning and Operations of Public Transport Systems (discontinued; only exam possibility in 2022-2023)*
[CIE5802-18](#) *Advanced Transport Modelling (discontinued; only exam possibility in 2022-2023)*
[CIE5810-19](#) *Traffic Safety (discontinued; only exam possibility in 2022-2023)*
[CME4300](#) Engineering Asset Management
[EE4C06](#) Networking
[EPA112A](#) Programming for Data Science
[EPA122A](#) Spatial Data Science
[ME41106](#) Intelligent Vehicles 3ME
[ME44206](#) Quantitative Methods for Logistics
[SEN9720](#) Logistics and supply chain innovations
[SEN9725](#) Supply Chain Gaming
[TPM004A](#) Transport safety
[TPM026A](#) System Reliability in Quantitative Risk Assessment
[TPM028a](#) Decision making in multimodal transport systems

Accepted electives T&L track in Q3 and Q4

[AE4446](#) Airport Operations
[AE4462-17](#) Aircraft Emissions and Climate Effects
[AR0049](#) Urban Geography
[AR0168](#) People, Movement and Public Space
[CIE5803-18](#) *Railway Traffic Management (discontinued; only exam possibility in 2022-2023)*
[CIE5805-18](#) *Intelligent Vehicles for Safe and Efficient Traffic: Design and Assessment Innovations in Dynamic Traffic Management (discontinued; only exam possibility in 2022-2023)*
[CIE5816](#) *Urban Regions, Transport and Economics (discontinued; only exam possibility in 2022-2023)*
[CME4481](#) Systems Engineering Design
[CME4701](#) Construction Management Systems
[EPA141A](#) Model-Based Decision Making
[EPA142A](#) Ethics of Large System Interventions
[EPA143A](#) Macro Economics for Policy Analysis
[ME41000](#) Automotive Human Factors
[ME44305](#) System Analysis and Simulation
[ME44312](#) Machine Learning for Transport and Multi-Machine Systems
[SET3100](#) Electric vehicle and charging technology
[TPM593A](#) Internship TPM
[WM1301TU](#) Ethics of Transportation