

Academic Year 2024-2025

# Technology, Policy and Management

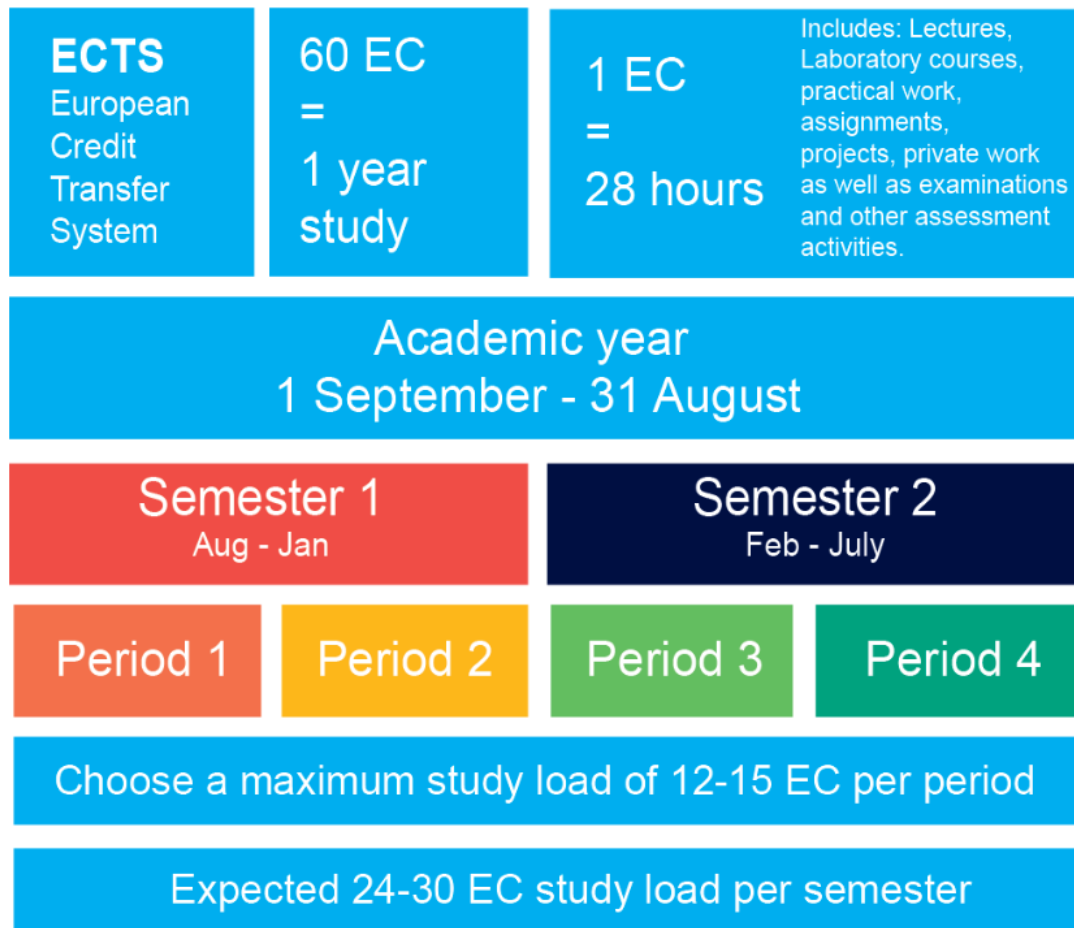
## Exchange courses





# Course selection guidelines

The table below shows how the academic year is divided and what is expected of you from each semester and/or period. With the details below of how many EC you are expected to obtain, you will be able to make a preliminary study plan that will need to be approved by your home university and TU Delft.



## Things to consider when you choose your courses

1. Will you be staying for 1 or 2 semesters? This will affect the number of EC you need to choose.
2. You must take a course load equal to 24-30 EC per semester, 12-15 EC per period.
3. Changes to your course plan after your arrival still need to meet the above requirements.
4. Carefully consider your course workload (minimum 24 EC), and the manageability of it. Students are not permitted to re-sit exams after the end of the official exchange period. Alternative course/s will need to be taken at your home university when you return.
5. The majority of courses (at least 51%) should be chosen from TPM.
6. The first year of the MSc Engineering & Policy Analysis (EPA) is taught at Campus The Hague, located at the city centre of The Hague.
7. Please read the description in the study guide carefully; a lot of courses have prerequisites.

# TPM

Please note the course list is from academic year 2023/2024 and subject to change. At the end of April 2024 the final course list for academic year 2024-2025 will be published. Check the TU Delft study guide for the most up to date information.

## Requirements and Restrictions

### BSc

- BSc students can take MSc courses as long as they meet the pre-requisites as stated in the course description of the [TU Delft study guide](#).

### MSc

- All first-year Master courses of the MSc Management of Technology (MOT) have a limited capacity and are only available to exchange students from the faculty TPM.
- For all courses in the MSc Industrial Ecology (IE) a separate admission is required from the IE programme coordinator. Only Master level students can apply. Courses in IE take place either in Leiden or in Delft.
- At TPM all Master courses are given in English. You can follow MSc courses at our faculty as long as you have the pre-required knowledge.

### Minor Courses

- Exchange students are not allowed to take separate minor courses, unless approved by the coordinator or module manager. We offer 3 minors in Q1 and Q2 that can be chosen by exchange students.
  - [Med-Tech Based Entrepreneurship](#)
  - [Companies and innovation: economical, ethical, juridical and safety perspectives](#)
  - [Security, Safety and Justice \(LDE minor\)](#)
- If you are interested in taking one of those minors, please contact [internationaloffice-tbm@tudelft.nl](mailto:internationaloffice-tbm@tudelft.nl)

### (Research) Projects

- The Faculty TPM does not facilitate any (research) projects; these are only allowed if specifically agreed upon in the bilateral agreement.

Please note that the following courses (projects) are **NOT** available for Exchange Students:

MOT2004*	Preparation for Master Thesis
MOT9611*	Project Entrepreneurship Thesis related
SEN111A	Introduction to Design in Complex Systems
SEN1161	Design Project
SEN1541	Sociotechnology of Future Energy Systems
SEN232A	Master Thesis Preparation
SEN2331	CoSEM Master Thesis
EPA2934	Preparation Master Thesis
EPA2942	Master Thesis EPA
TPM008a	Summer School Health Entrepreneurship
TPM330A	Engineering Ethics and Risk
IFHPM0020	Leadership Skills for Engineers
Courses starting with UDxxxx	These are Honours courses.

\*Other first year MOT courses are only available to exchange students of the faculty TPM. There are a limited number of places available. Please contact [internationaloffice-tbm@tudelft.nl](mailto:internationaloffice-tbm@tudelft.nl).

## Courses Bachelor first year

Course code	Course name	Cat.	Ec.	Period (Q)
TB133D	Introduction to Programming with Python	BSc	5	Q3

## Courses Bachelor second year

TB241IB	Object Oriented Programming	BSc	5	Q1
TB241TB	Logistics 2	BSc	5	Q1
TB242IC	Interconnected Engineering Systems	BSc	5	Q2
TB243EA	Analysis of Industrial Systems	BSc	5	Q4

## Courses Bachelor third year

TBM024B	Introduction to Energy Systems	BSc	5	Q1
TBM045A	Argumentation: Analysis and Reasoning	BSc	3	Q1
TBM301A	Writing a Bachelor's Thesis in English	BSc	2.5	Q1 / Q3
TBM610A	Process Management and Decision-making in Project Environments	BSc	5	Q2
TB341TC	Quantitative Models for Transport	BSc	5	Q3
TBM007A	Critical Thinking in Engineering	BSc	3	Q4

## Courses Master Engineering and Policy Analysis (EPA)

The first year of the EPA programme is taught at Campus The Hague, in the city centre.

Course code	Course name	Cat.	Ec.	Period (Q)
EPA111a	Policy Analysis for International Challenges	MSc	5	Q1
EPA112a	Programming for Data Science	MSc	5	Q1
EPA113a	Political Decision Making	MSc	5	Q1
EPA121a	Actor and Strategy Models	MSc	5	Q2
EPA122a	Spatial Data Science	MSc	5	Q2
EPA123a	Introduction to TPM Modelling	MSc	5	Q2
EPA131a	Behaviour in Transitions	MSc	5	Q3
EPA141a	Model-based Decision-making	MSc	5	Q4
EPA142a	Ethics of Large System Interventions	MSc	5	Q4
EPA143a	Macro-economics for Policy Analysis	MSc	5	Q4

## Courses Master Complex Systems Engineering and Management (CoSEM)

Course code	Course name	Cat.	Ec.	Period (Q)
SEN1121	Complex Systems Engineering	MSc	5	Q1
SEN1131	Institutional Economics for Designing in Socio-technical Systems	MSc	3	Q1
SEN1511	Engineering Optimization and Integrating Renewables in Electricity Markets	MSc	5	Q1

SEN1611	I&C Architecture Design	MSc	5	Q1
SEN171A	Advanced Evaluation Methods for Transport Policy Decision-making	MSc	5	Q1
SEN9110	Simulation Masterclass	MSc	5	Q1
SEN9235	Game Design Project	MSc	5	Q1
SEN9720	Logistics and Supply Chain Innovations	MSc	5	Q1
SEN1141	Managing Multi-actor Decision-making	MSc	5	Q2
SEN1211	Agent-based Modelling	MSc	5	Q2
SEN1221	Statistical Analysis of Choice Behaviour	MSc	5	Q2
SEN1522	Electricity and Gas: Market Design and Policy Issues	MSc	5	Q2
SEN1622	I&C Service Design	MSc	5	Q2
SEN1721	Travel Behaviour Research	MSc	5	Q2
SEN1741	Innovations in Transport and Logistics	MSc	5	Q2
SEN9115	Participatory Systems	MSc	5	Q2
SEN9725	Supply Chain Gaming	MSc	5	Q2
SEN115B	Law & Institutions	MSc	5	Q3
SEN1231	Mixed Research Methods for Multi-actor Systems	MSc	5	Q3
SEN124A	Design in Networked Systems	MSc	5	Q3
SEN1531	Design of Integrated Energy Systems	MSc	5	Q3
SEN163B	Responsible Data Analytics	MSc	5	Q3
SEN173A	Analysis and Design of Freight and Logistic Systems	MSc	5	Q4
SEN131B	CoSEM Research Challenges	MSc	5	Q4
SEN1641	Digital Platform Design	MSc	5	Q4

## Courses Master Electives

Course code	Course name	Cat.	Ec.	Period (Q)
TPM001B	Sociotechnology of Future Energy Systems	MSc	5	Q1
TPM004A	Transport Safety	Msc	4	Q1
TPM020B	Economics of Cybersecurity	Msc	5	Q1
TPM022A	Intermediate Economics	Msc	5	Q1
TPM023B	Cost-Benefit Analysis: Theory and Application	Msc	4	Q1
TPM027A	Cyber Risk Management	Msc	5	Q1
TPM029A	Responsible Innovation	MSc	3	Q1
TPM032A	Multi-criteria Decision Analysis	Msc	5	Q1
TPM036A	Health Systems	MSc	3	Q1
TPM037A	Health Systems	MSc	5	Q1
TPM038A	Artificial Intelligence and Cybernetic Justice	MSc	1	Q1
TPM039A	Statistical Methods for Causal Inference and Prediction	MSc	5	Q1
TPM042A	Science fiction: challenging the post-human	MSc	5	Q1
TPM043A	Resilience of socio-technical-environmental systems	MSc	5	Q1
TPM959A	Technology Battles	MSc	3	Q1
TPM801A	Introduction to Water Governance in Deltas	MSc	5	Q1
TPM802A	Model-based Water Systems Assessment	MSc	5	Q1
TPM002A	Water Ethics	Msc	3	Q2
TPM003A	Water Ethics	Msc	5	Q2
TPM014B	Ethics of AI	Msc	5	Q2
TPM015B	Ethics of AI	Msc	3	Q2
TPM025A	User-Centred Security	Msc	5	Q2
TPM026A	System Reliability in Quantitative Risk Assessment	Msc	4	Q2
TPM021A	Economics and Finance	Msc	6	Q2
TPM028A	Decision Making in Multimodal Transport	Msc	5	Q2

	Systems			
TPM031A	Design of Safety and Security Systems	Msc	4	Q2
TPM034A	Machine learning for socio-technical systems	MSc	5	Q2
TPM035B	Game theory and strategic decision making	MSc	5	Q2
TPM041A	Diversity and inclusion in Science, Technology, Engineering and Mathematics	MSc	3	Q2
TPM804A	Adaptive Planning for Management of Water Systems in Deltas	MSc	5	Q2
TPM803A	Building with Nature and Beyond	MSc	5	Q2
TPM0931SET	Sustainable Energy Innovation and Transitions	MSc	4	Q2
TPM016A	Robots and Society	Msc	3	Q3
TPM0637SET	Economic Policy for Sustainable Energy	MSc	4	Q3
TPM012B	Environmental Ethics	Msc	3	Q4
TPM013B	Environmental Ethics	Msc	5	Q4
TPM024A	Methods for Risk Analysis and Management	Msc	5	Q4
TPM030A	Introduction to Cloud as Infrastructure: The effects of the new business of computing on practice	Msc	5	Q4
TPM007A	Talk Like TED	Msc	3	Q1 / Q2 / Q4

## Courses Delft Centre for Entrepreneurship (DCE)

[More information about upcoming courses](#)

Course code	Course name	Cat.	Ec.	Period (Q)
TPM402A	Technology Entrepreneurship and Health	Msc	5	Q1
TPM404B	Technology Entrepreneurship and Internationalization	Msc	5	Q1
TPM405A	Patent Law and Patent Policy	Msc	5	Q1
TPM409A	Digital technology entrepreneurship and management	MSc	5	Q1
TPM414A	Idea to Start-up – Deep Tech	Msc	5	Q1
TPM423A	Technology Venture Development	MSc	15	Q1
TPM406A	Corporate Entrepreneurship and Start-ups	MSc	6	Q2
TPM408A	Financing Technology Ventures	Msc	5	Q2
TPM407B	Technology based marketing and sales	Msc	5	Q3
TPM417A	International Entrepreneurship Exchange	MSc	5	Q3
TPM425B	Start-up Challenge	Msc	3	Q3
TPM426B	Start-up Challenge - Advanced	Msc	5	Q3
TPM415B	Idea to Start-up – Climate Action	Msc	5	Q4
TPM403SET	Technology Entrepreneurship and Sustainability	MSc	4	Q4
TPM411A	Idea to Start-up – IT & AI	Msc	5	Q1 / Q3
TPM413A	Idea to Start-up – Energy & Sustainability	Msc	5	Q1 / Q3
TPM412A	Idea to Start-up – Health & Life Sciences	Msc	5	Q2 / Q4
TPM401A	Technology Entrepreneurship and Innovation	Msc	5	Q1 / Q2 / Q3
TPM420A	Ready to Start-up	Msc	6	Q1 + Q2 / Q3 + Q4

## Courses Centre for Languages and Academic Skills

Course code	Course name	Cat.	Ec.	Period (Q)
WM0201SET	Technical Writing	Msc	2	Q2
WM0201TU-Eng	Technical Writing	Msc	2	Q1 / Q2 / Q3 / Q4
WM0203TU-Eng	Oral Presentations	Msc	2	Q1 / Q2 / Q3 / Q4
WM-ITAV-4010	Scientific Writing	Msc	2	Q1 / Q2
WM1135TU	Advanced English for the University	Msc	3	Q1 + Q2 / Q3 + Q4
WM1115TU	Dutch Elementary 1	MSc	3	Q1 / Q2 / Q3 / Q4
WM1116TU	Dutch Elementary 2	MSc	3	Q1 / Q2 / Q3 / Q4
WM1117TU	Dutch Intermediate 1	MSc	3	Q1 / Q2 / Q3 / Q4
TPM301B	Spoken English for Group Work - Intermediate	Msc	2	Q2 / Q4
TPM302B	Spoken English for Academic Purposes – Advanced	Msc	2	Q1 / Q3
TPM303B	Intermediate Writing in English for the University	Msc	2	Q1 / Q3
TPM304B	Advanced Writing in English for the University	Msc	2	Q2 / Q4
TPM305A	Writing a Master's Thesis in English	Msc	2	Q1 / Q2 / Q3 / Q4
TPM018A	English Grammar for the University	Msc	2	Q2 / Q4

## Courses Ethics and Philosophy

Course code	Course name	Cat.	Ec.	Period (Q)
WM1401TU	Ethics of Healthcare Technologies	MSc	3	Q1
WM1402TU	Ethics of Healthcare Technologies	MSc	5	Q1
WM0353TU	Climate Ethics	Msc	3	Q2
WM0801TU	Introduction to Safety Science	MSc	3	Q2
WM0348TU	Christian Philosophy: Recent Developments	Msc	3	Q1 + Q2
WM0320TU	Ethics and Engineering	Msc	3	Q1 / Q3
WM0329TU	Ethics and Engineering	Msc	6	Q1 / Q3
WM0342TU	Introduction to the Philosophy of Technology	Msc	5	Q3
WM0375TU	Ethics of Technological Risks	MSc	3	Q3
WM0376TU	Ethics of Technological Risks	MSc	5	Q3
WM1301TU	Ethics of Transportation	MSc	3	Q3
WM1302TU	Ethics of Transportation	MSc	5	Q3
WM0342TU	Introduction to the Philosophy of Technology	MSc	5	Q3
WM0637SET	Economic Policy for Sustainable Energy	MSc	4	Q3
WM0324LR	Ethics and Engineering for Aerospace Engineering	MSc	3	Q2 / Q3
WM0312CIE	Philosophy, Technology Assessment and Ethics for CIE	MSc	4	Q4
WM0349WB	Philosophy of Engineering Science and Design	MSc	3	Q4