

MSc Programme

# Engineering and Policy Analysis



In the real world, scientists, engineers and policy makers do not confront technological challenges in a vacuum. They work in an environment where political, moral, cultural and socio-economical considerations are crucial to the decision-making process and must be factored into the solutions. Often, these solutions require collaboration across disciplines, and across national and cultural boundaries. TU Delft's interdisciplinary Master's Programme in Engineering Policy Analysis (EPA) provides you with the knowledge and skills to analyse complex socio-technical problems, to model and assess solutions, and to carry out the design and

implementation of complex projects, programmes and policies. EPA offers you an international study environment and is geared towards international cooperation and sustainable development, with a special focus on rapidly developing countries.

## *At the intersection of technology and public policy*

EPA is also offered as a double degree programme with the Harbin Institute of Technology (HIT) in China. Accordingly, as a participant in the EPA programme, you will have the opportunity to earn degrees from both TU Delft and HIT, to live in the Netherlands and China, and to gain an understanding of the policy analysis processes in both countries. Students who participate in this double degree programme will spend at least one semester in Harbin. EPA is also partner in the prestigious Erasmus Mundus programme on Economics and Management of Network Industries. In this programme, we cooperate with the University of Paris Sud XI (Paris, France) and Comillas (Madrid, Spain). We also participate in several international exchange programmes with universities around the globe.

### Specialisations

In the first year, you follow a highly interactive programme with required courses on policy analysis, systems modeling, economics and management. In the second year you can choose one of the following technical specialisations<sup>1</sup>:

- Innovation Systems
- International Finance & Economics
- Modelling, Simulation and Gaming
- ICT Management and Design
- Infrastructure and Environmental Governance (annotation)
- Research Specialisation
- Safety and Security
- Supply Chain Analysis and Management

<sup>1</sup>Specialisations are subject to constant change; for the most recent information about the specialisations please visit the website.

# Engineering and Policy Analysis curriculum

The four fundamental themes of the EPA programme (policy analysis, systems modelling, economics, and management) are represented in the table by four different colours. The table reflects a standard two-year course; the curriculum varies slightly for students entering the programme in February and for double degree students staying in Harbin.

First Year			
First period	Second period	Third period	Fourth period
Principles of Policy Analysis (5 EC) Oral Presentation	Policy and Strategy Models (5 EC)	Policy Analysis of Multi-actor Systems (5 EC)	Technology Development & Impact Assessment (5 EC)
Cross-cultural Management (5 EC)	Economics and Regulation (5 EC)	Economy of Infrastructures (5 EC)	Decision Making in Networks (5 EC)
Statistical Modelling (5 EC)		Project Management (5 EC)	
Continuous Systems Modelling (5 EC) Technical Writing		Discrete Systems Modelling (5 EC)	
Second Year			
First period	Second period	Third period	Fourth period
Specialisation (15 EC)		Master Thesis (30 EC)	
Elective courses (9 EC)	Preparation Master Thesis (6 EC) Interviewing Techniques		

■ Policy analysis 
 ■ Socio-economic context 
 ■ Management 
 ■ Systems modelling 
 ■ Project 
 ■ Skill

• 1 EC = 28 hrs study, according to the European Credit Transfer System (ECTS) • One academic year = 60 EC • Total amount of credits MSc programme = 120 EC

## Career prospects

EPA graduates typically find employment as consultants or project managers in multinational engineering, consulting and banking firms, and as strategic advisors to national governments and international organisations. Other pursue advanced degrees or remain in academia. Some well-known international firms that have hired EPA graduates in the past include Price Waterhouse Coopers, Accenture, ING, Deltares, DHV, and Royal Haskoning.

- University graduates: Students with a technical or natural sciences Bachelor's degree are eligible for admission. International applicants must meet TU Delft's general admission requirements. A prerequisite for participation in the EPA programme is a solid mathematical background and mastery of the English language. All incoming students will be tested on their English language proficiency. Students whose English skills did not meet the minimal requirements may be obliged to take additional English language courses.

## Admission requirements

- Applicants with a degree from a Dutch HBO: Graduates with a Bachelor's degree in technical or natural sciences from an HBO may be considered for admission after completing the bridging programme.

For further information: [www.epa.msc.tudelft.nl](http://www.epa.msc.tudelft.nl)

### Academic Counsellors

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