

Infrastructure & Smart Cities Master track

MSc Urban Management and Development

Infrastructure and Smart Cities Managing and Developing Physical and Digital Infrastructures for Future-proof Cities

For long, urban infrastructure has been regarded as a necessary tool to lower friction in the city. As cities find themselves under continuous environmental pressure and citizens demand better quality of life, infrastructure becomes a means of changing the city for the better. Planners and policy makers should learn how to make infrastructure work as a conduit for greener cities.

What will I learn?

This specialisation teaches you how to develop future-proof urban infrastructure to support green transitions, and how to keep that infrastructure working in the face of changing conditions. In practical terms, you'll learn about the planning, contracting and maintenance of infrastructure projects, as well as the evaluation of such projects. In theoretical terms, you'll learn about the ways in which infrastructure interacts with societies, and how it may help accelerate greener transitions. This knowledge is applied to all kinds of infrastructure: transportation, including public transport, sanitation and waste processing, digital infrastructure including so-called 'smart city' technology and energy. As it is important that you not only learn how to do things but also question why things should be done in a certain way, the specialization offers a balanced mix between theoretical reflections and practical applications.

Course modules

Infrastructure planning and maintainance

Infrastructure evaluation

Socio-technological evolution

Theories of change and stability

Field trips

"The multidisciplinary nature of the programme has changed my perspective on urban issues and helped me approach them in a more realistic way."

Rami Sharaf
Egypt



Why should I choose this programme?

- Work with renowned scholars and experts in the field of infrastructure development
- Learn the basics of infrastructure planning
- Get the ins and outs of various forms of contracting
- Get up to speed with the latest in evaluation methods
- Study in Rotterdam - a real-time lab of urban innovation
- Prepare for dynamic and broad career opportunities

Learn more at ihs.nl/infrastructure



Photo by Chris Gorzeman