Master’s Programme in Spatial Planning and Transportation Engineering

Built environment frames our everyday life. In the new Master’s Programme in Spatial Planning and Transportation Engineering, we shape these frames.

Why a degree in spatial planning and transportation engineering?

Urban realities are becoming increasingly dynamic, complex and fragmented while demands for their livability, sustainability, competitiveness, and attractiveness increase. This requires new skills in systemic understanding, problem-solving, and integrative planning and policy-making beyond sectorial boundaries.

This programme focuses on important future challenges of sustainable built environment, tackling topical global megatrends, such as urbanization and need for greener cities. The uniqueness of the program is its focus on a wide range of approaches from people’s daily life and mobility to large scale strategic and systemic thinking necessary for shaping the built environment.

Master’s thesis (30 cr)

Elective studies (25 cr)

Advanced studies (25 cr)
Students select 25 cr worth of courses (5 cr each)
• Participatory Planning
• Transport Modelling
• Urban and Regional Development
• Traffic Flow Theory
• Urban Experience
• Traffic Management
• Smart & Liveable City Studio (10 cr)

Common studies (40 cr)

Obligatory courses (5 cr each)
• Land Use Planning Systems
• Transport Systems Planning
• Planning Theory
• Transport Policy and Economics
• Seminar
• Systems Thinking for Sustainable Living Environment
• Planning Studio (10 cr)

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What do we offer?
We welcome students from diverse backgrounds and disciplines to work together. In addition to knowledge and skills in spatial planning and transportation engineering, each student can specialize in areas that interest them most.

Through interactive learning methods, you will gain hands-on experiences on a range of urban themes and methodologies. Engaged in studio courses, you will learn systemic thinking, creative problem-solving, ethical reflection, as well as tools for participative processes and communication skills in various forums and through various media. Moreover, you will be able to critically interpret and process knowledge from multiple sources and implement this knowledge in a variety of complex urban processes.

What is the outcome?
As a graduate of this programme, you will become an enabler of sustainable future of cities. In addition, you will be able to improve the quality of life for people - in all scales, now and in a long term.

You will gain excellent competencies to work for smarter and more liveable cities and to respond to emerging issues of constantly changing built environment. In addition to a strong theoretical basis, you will acquire insight into current research themes, and an ability to apply a variety of planning and analysis tools in practical land use and transportation problems.

Career prospects?
With personal choices in elective studies, you can expand your expertise with knowledge and skills from the fields of e.g. architecture, geoinformatics, real estate economics, environmental engineering, urban design, sociology, political studies, ecology, and geography. Consequently, our graduate can specialize in different professional roles of choice, including urban, regional and transportation planner, developer, analyst, policy-maker, transportation engineer, modeller, manager, or researcher.