

# School of Engineering/Department of Built Environment/Spatial Planning and Transportation Engineering Research Group (Finland)

## Institutional Information (Last update at: 10/07/2017)

<b>School/Department name (Native language)</b>	Insinööritieteiden korkeakoulu/Rakennetun ympäristön laitos/Maankäytön suunnittelun ja liikennetekniikan tutkimusryhmä
<b>AESOP reg Number</b>	F-358-01
<b>AESOP Member Status</b>	Full Member
<b>University</b>	Aalto University
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<b>Web site</b>	<a href="http://builtenv.aalto.fi/en/research/spatial_planning_and_transportation_engineering/">builtenv.aalto.fi/en/research/spatial_planning_and_transportation_engineering/</a>

## Contact persons

### Head of School / Department

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### AESOP Contact person

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## School Information

<b>Full time academic staff members</b>	30
<b>Part time staff members</b>	10

Staff members engaged in research	30
Staff members engaged in professional activities	0

## Degree Programmes and Educational Provision

### (Post)Graduate/masters or second cycle degree(s) offered at School/department

#### M.Sc

**Number of years normally used to complete this degree(FT)**

2

**Part time option**

No

**Delivery mode**

On campus

**Number of ECTS**

120

**Teaching languages**

English

**Specialisation within in this Degree/the curriculum**

Managing Spatial Change, Land economy/Urban engineering

**The degree requires an assessed period of work in practice**

No

**Programme accreditation by a professional body/other institution**

Yes

**This is an Erasmus mundus programme**

No

**Curriculum/approach description**

This multidisciplinary Master's programme (120 credits) gives students a comprehensive understanding of the complexity of modern, responsible spatial development. Students acquire expertise in integrating the fields of spatial planning, land use, housing, transportation and ecology. They learn to understand the general meaning of the environment in a cultural context and the promotion of strategic and sustainable development. Managers of spatial change are professionals with a system perspective on spatial planning problems and a comprehensive and integrative understanding of space, who are able to initiate, structure and manage spatial change processes in a pro-active way, implementing policies that present the interests and realities of all stakeholders.

The core learning element in the programme is the Shared project, a form of problem-based learning that tackles a complex real life urban planning issues. Other courses focus on theory, practical tools and techniques and the strategic skills needed to respond, to contemporary spatial challenges. Students specialise in either transportation and environmental engineering or real estate economics.

The two alternative majors in the programme are:

- Managing Spatial Change, Land Economy concentrates on the role and use of land, real estate and environment within an economy. In particular, it applies the disciplines of real-estate economics, law, GIS and planning for analysing the management of land use, urban areas and interactions with other environmental resources.
- Managing Spatial Change, Urban Engineering concentrates on urban infrastructure and its role within planning and development. It applies disciplines relating to civil and environmental engineering for the analysis and planning of urban areas. In particular, these include transportation-system planning, environmental engineering and policy.

Programme website: <https://into.aalto.fi/display/enmsc/Homepage>

## Doctoral/PhD education offered at School/department

## D.Sc (technology)

**Number of years normally used to complete this degree(FT)**

4

**Part time option**

Yes

**Number years usually required for completing the degree part-time (PT)**

8

**Delivery mode**

On campus

**Number of ECTS**

60

**Teaching languages**

English, Finnish, Swedish

**Specialisation within in this Degree/the curriculum**

Land use planning and urban studies

**Curriculum/approach description**

Land use planning with links to strategic urban and regional planning, urban governance, urban design, land economy, geoinformatics, urban engineering, urban sociology and environmental psychology.