

Title of the whole course: Transport planning & land use

Transport planning & land use

Name of the Educational Test Site: **KU Leuven**

Objective of the whole course

- the students should become familiar with the interaction between transport infrastructure planning and land use planning
- the students should know which tools are available in transportation planning process and they should learn how to use them in preparing transport policy plans
- the students should learn how transportation and land use issues are dealt with in various governmental policy plans (municipality, province, national government)
- the students should be able to assess various impacts (accessibility, environment, safety, etc.) of suggested transport system improvements
- the students should be able to design a consistent and effective set of measures (strategic, tactical and operational) in order to tackle (overcome) the wide range of problems we are dealing with in the transport sector
- the students should become familiar with architectures as designed for the application of Intelligent Transportation Systems and Dynamic Traffic Management
- the students should learn how to design a policy making process

Content of the whole course

- transportation system analysis
- the toolbox of the traffic engineer
- transportation modeling
- accessibility in relation to physical planning
- design methodologies for transportation networks
- architecture for traffic control
- organization and exploitation of transport/traffic services
- (micro)simulation of traffic flows
- dynamic traffic management
- intelligent transportation systems
- application of transportation models (exercises)
- writing of thesis; presentation and defense

Which parts of PORTAL (project results) were taken up?

Information on interaction between land use and transportation planning

Information on modelling approaches

Which PORTAL material was used?

Selected PORTAL transparencies

Separate / existing course	Existing
Optional / compulsory course	Optional
Name of the corresponding curricula	Infrastructure in relation to physical planning
Participants' level	Level 6
Type of input	Lecture/interactive
Number of participants	20-30
Timing	February-June: 16 weeks
Exercises	Yes
Language	Dutch

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Website of institution and / or lecturer	http://www.kuleuven.ac.be/traffic/index.htm
Language of lecturer	Dutch, English
Fields of expertise	<ul style="list-style-type: none"> - Transport and land-use planning - Transportation modelling - Dynamic traffic management, incident management; incident prediction; road safety - Design methodologies for transport networks (public transport, car, bicycle) - Multimodal and integrated freight transport - Transport and the environment - Impact assessment, evaluation methods - Non-motorised transport - Ex-ante and ex-post evaluation - Game simulation in complex systems; self-organisation - Transport policy formulation and implementation