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201800064

Traffic Operations

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Cursus	201800064	Collegejaar	2018
Studiepunten (ECTS)	5	Aanvangsblok	1A
Cursustype	Cursus	Aanmeldingsprocedure	Zelf aanmelden via OSIRIS Student
Voertaal	Engels	Inschrijven via OSIRIS	Ja
Contactpersoon	dr. K. Gkiotsalitis		
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Docenten			
Docent	dr. K. Gkiotsalitis		
Contactpersoon van de cursus	dr. K. Gkiotsalitis		

Leerdoelen

After this course, the student is able to:

- gain insight in the microscopic and macroscopic properties of traffic flows and theories and models that describe this process
- gain insight in the measurement of traffic operations process, analyze and interpret traffic measurements

Inhoud

An important aspect of traffic engineering is the study of traffic flows under various conditions. Some of these conditions are directly related to network "operators" such as road layout, ramp metering and traffic lights. The course Traffic Operations deals with the theoretical concepts of traffic flow behavior and its statistical properties under different network conditions.

This course is about the description and measurement of traffic operations, from a microscopic and macroscopic perspective. The theory of traffic flows deals with basic variables like time and distance headway, intensity, velocity and density and concepts as jam density, optimal velocity, capacity, car following behavior and shock waves. Several techniques to recognize and quantify these concepts are discussed. Measurement deals with infrastructure-based techniques as inductive loop detectors, and with vehicle- based techniques such as (extended) floating car data.

This course is assessed by means of a written exam.

Voorkennis

Prerequisite for:

- Traffic Data Analysis
- Traffic Management

DEELNEMENDE OPLEIDING

Master Civil Engineering and Management

Verplicht materiaal

-

Aanbevolen materiaal

-

Werkvormen

Hoorcollege

Aanwezigheidsplicht Ja

Zelfstudie geen begeleiding

Aanwezigheidsplicht Ja

Toetsen

Written examination

Opmerking

Written Examination with Test (70%) and Assignment with Test (30%)

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