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195820500

Infrastructure Management

Cursus informatie

Cursus	195820500	Collegejaar	2016
Studiepunten (ECTS)	7,5	Aanvangsblok	2B
Cursustype	Cursus	Aanmeldingsprocedure	Zelf aanmelden via OSIRIS Student
Voertaal	Engels	Inschrijven via OSIRIS	Ja
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Docenten			
Docent	dr. A. Hartmann		

Leerdoelen

- know the importance of infrastructure assets;
- define "infrastructure management" and name the main aspects of infrastructure management and their relationships;
- understand the stakeholder perspective in infrastructure management and the formulation of infrastructure objectives;
- explain the concept of failure and understand failure mode, effect and criticality analysis;
- know cost and benefit categories of interventions and determine the impact of different interventions on cost and benefit;
- know methods of evaluating and prioritizing intervention strategy options;
- understand the management of stakeholders in intervention projects;
- determine effective procurement of maintenance and rehabilitation projects;
- work in an (international) project team;
- report and present project results convincingly.

Inhoud

Background and context: An optimally designed, constructed and maintained infrastructure (e.g. facilities for transportation, energy production or recreation) is of economic and social importance in every modern society. The performance of an infrastructure system strongly affects the distribution of resources and goods, the accessibility and economic development of regions, the mobility of citizen and the overall quality of life. Economic strength and social health of countries are directly related to the effectiveness and efficiency of the infrastructure system. In order to guarantee a performance level during the entire infrastructure life cycle that meets the needs of the public and the owner, a professional infrastructure management is required. Such an infrastructure management continuously optimizes the interplay of the strategic importance of an infrastructural facility, its current and future performance, its expected life time and the activities and cost of maintenance and rehabilitation. It aims at maximising the value of the infrastructure for the public and the owner while minimizing the expenditures incurred during the life time of the infrastructural asset.

Course content:

The focus of this course is on the management of infrastructure facilities and the maintenance and rehabilitation process in particular. The course provides the basic concepts and tools to procure and preserve infrastructure systems most cost-effectively. It shows how to prevent costly deterioration of infrastructure and to ensure an acceptable performance level of the infrastructural asset. The course covers the development of effective maintenance and rehabilitation strategies for portfolios of infrastructure facilities as well as the planning and procurement of single maintenance and rehabilitation projects. It particularly addresses the dynamic relationship of economical, organisational and quality issues during the life cycle of infrastructure facilities.

Voorkennis

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DEELNEMENDE OPLEIDING

M-CEM

DEELNEMENDE OPLEIDING

M-CME

Verplicht materiaal

Studiemateriaal
reader

Aanbevolen materiaal

-

Werkvormen

Hoorcollege

Microcollege

Opdracht

Zelfstudie geen begeleiding

Toetsen

Opdracht + Tentamen

Opmerking

Weging: Opdracht 60%, Tentamen 40%

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