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201100013

Rail Transport

Course info

Course module	201100013	Starting block	2A
Credits (ECTS)	7.5	Application procedure	You apply via OSIRIS Student
Course type	Course	Registration using OSIRIS	Yes
Language of instruction	English	Number of insufficient tests	-
Contact person	ing. K.M. van Zuilekom		
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Lecturer(s)			
	E. Docent		
Lecturer			
	ing. K.M. van Zuilekom		
Lecturer			

Learning goals

At the end of the course the student has ...

Knowledge of:

- The structure and design of the rail infrastructure
- The properties of the rail vehicles in relation to its purpose for persons as well as goods
- Where rail meets other modes: train stations, transfer of goods
- The transport demands from customer perspective (public transport as well as goods)
- The exploitation of rail services

Developed insight in:

- the design and exploitation of rail infrastructure.

Applied:

- a feasibility study for a passenger rail service

Content

Outline:

- The transportation chain (passengers and goods)
- The characteristics of rail vehicles
- The characteristics of the rail infrastructure
- The switch
- The safety systems
- Energy supply
- Track concepts
- Stations
- Influence on the environment

Assessment

The assessment consists of two elements:

a1: a written exam

a2: a case (85% report and 15% presentation)

If all elements have marks of 5.5 or higher (on a scale of 1 to 10) the final mark is:

$$50\% * a1 + 50\% * a2$$

Otherwise:

The final mark is the minimum of a1 and a2

The case (a2) may be improved if the marks are in a range of 4.0 to 5.4. Maximum mark of an improved case is 6.

Relationship between Public Transport [195421200] and Rail Transport [201100013]:

• *Public Transport focuses on the (modeling) of the demand side and organization of the supply side of PT in general (road and rail).*

• *Rail Transport focuses on the physical design of rail infrastructure for persons and goods transport.*

Assumed previous knowledge

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PARTICIPATING STUDY

M-CEM

Required materials

Book

Railway Operation and Control; Prof. Dr. Joern Pachl; VTD Rail Publishing; ISBN 0-9719915-1-0 (or the more expensive 2nd edition if the first edition is not available anymore)

Reader

Recommended materials

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Instructional modes

Lecture

Project (Required)

Self study without assistance

Tests

Test

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