Advanced Transport Modeling - A Blended Learning Course -

Are video lectures a remedy for the lack of teachers in higher education? Can international experts enhance programs of study in Africa? Are video lectures sustainable learning resources? What are the requirements for successful adaption?

About the Project

Video lectures (interactive)

- 2019 - Evaulation and adjustment
- Implementation of the first blended learning 2018 course with international experts of transport modeling
- Funding by DAAD, Erasmus 2017 exchange (lecturers / students) recording of video lectures
- Concept for a blended learning course for 2016 civil engineering
- Webconferences for PHD students 2015
- 2014 - Cooperation contract
- First contact and support for PHD students 2012

Course Structure

- target group: master students
- blended learning format with weekly sessions
- curriculum integration

- screen content variable (lecturer / content)
- interactive videos 8 to 20 minutes long
- singlechoice questions
- retry untill the correct anwser was given
- video in video (dynamic demonstration)
- play rate adjustible
- optinal download
- lectures followed by questions for group discussion

Screenshot interactive video lecture Origin and Development of Traffic nowadays future: compact city 5:37 / 25:06 **.** utzungsbedingungen

- 14 topics by 8 experts
- local lecturer / tutorial support
- weekly assignments
- webconference with experts
- final exam



Moodle - Learning Management System

- Import/Export (exchange)
- Video files should not be stored on moodle
- H5P Plugin for interactive videos
- Student folder
- Assignments

Open Educational Ressources - OER

Photo: Stefan Fries

- production under creative commons licence
- course and videos are reusable
- sharing & cooperation

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