



# Didactic Basics of Technology Enhanced Learning at Vienna University of Technology

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Workshop at the Graz Conference  
2015 in Innsbruck

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TUW / Teaching support Center

# Assignment A



## One intended learning outcome / ILO

Please define (at least) one intended learning outcome that is of high importance in one of your courses:

After having passed this course successfully students are able to ....

+ active verb

+ content / object



## ILO: 2 (fake) examples

After having passed this course successfully  
students are able to ....

- diagnose a wounded knee correctly in four of five patients (= skill / competence)
- list five of the seven most important symptoms of a wounded knee (= factual knowledge)



# Educational technology at TUW

## Four central services

- Learning management system: TUWEL  
(based on Moodle)



- Recording lectures: LectureTube  
(based on Matterhorn); via TUWEL




- Streaming lectures: LectureTube LIVE  
(based on Matterhorn) via TUWEL






- Web conferencing: TU CONNECT  
(based on Adobe Connect)





## 309.038 Modellbildung des Bewegungsapparates (VO 2,0) 2015S

**NAVIGATION +** 

- ▾ **309.038-2015S**
- Participants
- Reports
- ▾ Activities
  -  Forums
  -  Resources
- About this Course
- Introduction to Modeling
- Inertial Properties of the Human Body
- Muscle Mechanics
- Biological Joints
- Human Gait
- Examples
- [Link to TISS Lecture](#)


**ADMINISTRATION** 

- ▾ Course administration
  -  Turn editing on
  -  Edit settings

### About this Course

 [Nachrichtenforum](#)

This course is held on a weekly basis every Thursday 13:15 to 14:45 in seminar room BA02C (building BA, Getreidemarkt 9, 2<sup>nd</sup> floor) starting on Mach 12<sup>th</sup>.

 [General announcements](#)

 [Literature](#)

### Copyright

The slides presented during the course and all other material made available for download is for the sole purpose to support the students at the Vienna University of Technology (TU-Wien) attending this course.












Other use of this material - especially saving it on other servers, copying and modifying it for the purpose of redistribution and/or using it in other courses - requires a written permission by the author!













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### Introduction to Modeling

 [Introduction to Modeling](#)



- ### ACTIVITIES
-  Activity Support
  -  Assignment
  -  Chat
  -  Checkmark
  -  Choice
  -  Database
  -  External tool
  -  External server
  -  Feedback
  -  Forum
  -  Glossary

-  Grouptool
-  HotPot
-  Lesson
-  Maple T.A. Assignment
-  Offline Quiz
-  Organizer
-  Quiz
-  RSSPlayer
-  SCORM package
-  Student folder
-  Wiki
-  Workshop

- ### RESOURCES
-  Book
  -  File
  -  Folder
  -  IMS content package
  -  Label
  -  Lightbox Gallery
  -  Page
  -  URL



ACTIVITIES

- Activity Support
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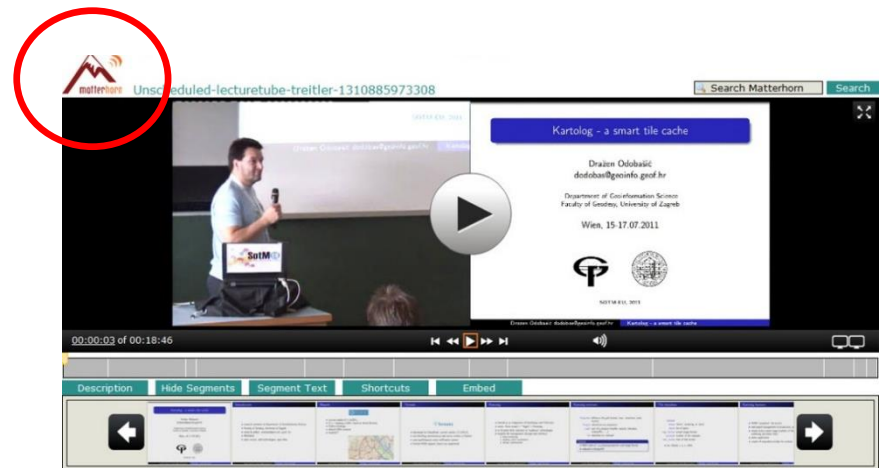
RESOURCES

- Book
- File
- Folder
- IMS content package
- Label
- Lightbox Gallery
- Page
- URL

Everything can be assessed !



- Recording of lectures, on-demand videos
- Multi channel recording:
  - content: transparencies or document camera
  - audio of lecturer
  - opt.: video of lecturer
- extraction of content of transparencies
- Optional: real time annotation

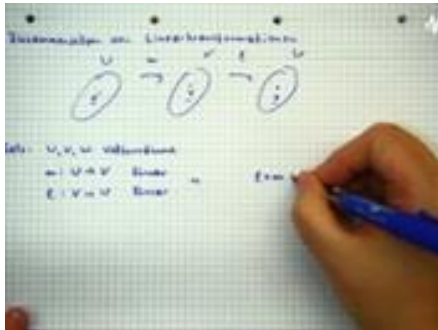
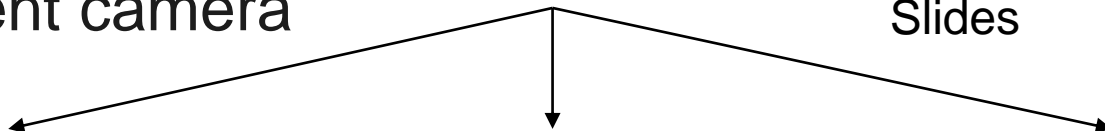




- Live streaming of one lecture hall into into TUWEL or other lecture halls
- Different usage scenarios:
  - Screen
  - Document camera



Slides



Hand writing



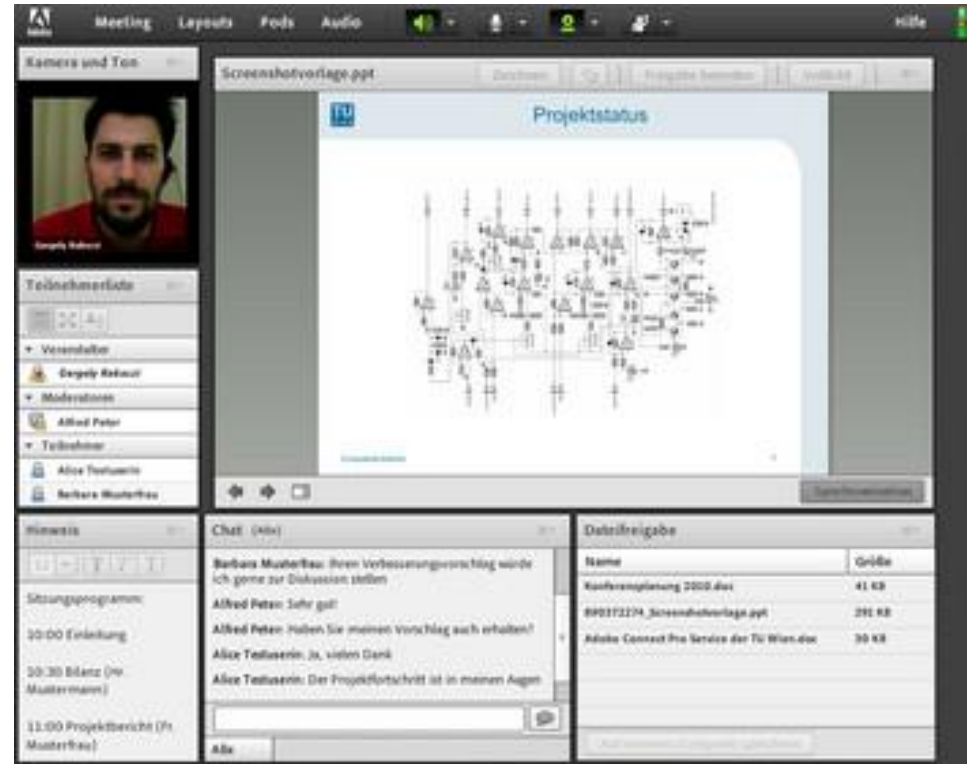
Experiments



Lecturer



- Web conferencing system for employees (in teaching and research)
- Features
  - slides haring
  - desktop sharing
  - whiteboard
  - polls
  - chat
  - video transmission (of all participants)





# Purposes

1. compensate capacity bottlenecks
2. administrative efficiency
3. flexibility of learners
  
4. quality of learning



# Different educational functions ...

... for different intended learning outcomes:

- deliver content
- self regulated learning
- collaborative learning
- communication skills
- testing and self testing
- assessment and peer assessment
- tutoring

**Remember  
your ILO**

# Assignment B



## Didactic concept

**Please work out and discuss with your neighbour**

- How can you support your students to reach the defined learning outcome?
- Which digital services and tools could be helpful?



Danke Thank you Multumesc Hvala Köszönöm Merci Grazie



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