

Lifelong Learning Strategies – Teaching Material Production and Course Development at FHTW Berlin


1. Introduction
2. Curriculum design "Mobile Computing"
3. Production of Multimedia Learning Material
4. Multimedia learning material, communication tools, and LMS eCampus
5. Conclusion and outlook

21/03 2007 UICEE-ACEE Jürgen Sieck | Michael A. Herzog | FHTW University of Applied Sciences Berlin

1 As long as you live, keep learning

► Introduction

21/03 2007 UICEE-ACEE Jürgen Sieck | Michael A. Herzog | FHTW University of Applied Sciences Berlin



What can information and communication technologies help for?

- learners to engage with multimedia information by classifying, indexing, annotating, analysing, organising, evaluating, cross-referencing and searching the contents;
- teams to collaborate and learn simultaneously;
- anyone to develop and practice skills in different contexts, time and locations independently;
- creators and teachers of learning courses to analyse the quality and quantity of the learning success.

21/03 2007 UICEE-ACEE Sieck | Herzog | FHTW Berlin As long as you live, keep learning page 3

2 Curriculum design

► The further education course "Mobile Computing"

21/03 2007 UICEE-ACEE Jürgen Sieck | Michael A. Herzog | FHTW University of Applied Sciences Berlin

Topics

- introduction to mobile computing,
- multi-modal systems and XML,
- wireless networks,
- mobile devices,
- introduction to databases,
- data modelling,
- programming of database applications,
- replication and synchronisation of databases,
- development of e- and m-commerce applications
- mobile information systems,
- multimedia information systems,
- navigation systems,
- location and time based services.

21/03 2007 UICEE-ACEE Sieck | Herzog | FHTW Berlin Curriculum design page 5

Workload of ~250 hours Blended Learning

25 weeks with each

- 2 hours face-to-face teaching,
- 2 hours lab instruction,
- 4 hours e-learning, and
- 2 hours mobile learning.

More information:
<http://inka.f4.fhtw-berlin.de/moco/>


21/03 2007 UICEE-ACEE Sieck | Herzog | FHTW Berlin Curriculum design page 6

3 Multimedia Learning Courseware

► E- and M-Learning teaching material

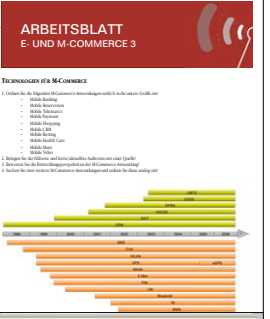
21/03 2007 UICEE-ACEE Jürgen Sieck | Michael A. Herzog | FHTW University of Applied Sciences Berlin

Tutorial for lab instruction



21/03 2007 UICEE-ACEE Sieck | Herzog | FHTW Berlin Courseware • tutorials page 8

Worksheets, case studies, examples



21/03 2007 UICEE-ACEE Sieck | Herzog | FHTW Berlin Courseware • paperwork page 9

Multiple choice tests

WAS HEISST SQL?

- Short Quick Location
- Simple Query Language
- Structured Query Language
- Simple Quick Locator

21/03 2007 UICEE-ACEE Sieck | Herzog | FHTW Berlin Courseware • MCT page 10

TV-like Video Material

Beschreibungsebenen eines Inf.-Sys

- Betriebswirtschaftliche Problemlösung
- fachspezifisch (Beratliche Modelle)
- DV-Konzept (DV-basierte Beschreibung)
- Implementierung (DV-mäßige Beschreibung)
- Informationstechnik

21/03 2007 UICEE-ACEE Sieck | Herzog | FHTW Berlin Courseware • TV-lessons from vbc.studiolab page 11

Using podcasts with iTunes

21/03 2007 UICEE-ACEE Sieck | Herzog | FHTW Berlin Courseware • M-Learning • iTunes page 12

Using podcasts with iTunes

Erweiterung: Replikationshierarchie

21/03 2007 UICEE-ACEE Sieck | Herzog | FHTW Berlin Courseware • M-Learning • iTunes page 13

Podcast production process

21/03 2007 UICEE-ACEE Sieck | Herzog | FHTW Berlin Courseware • M-Learning • Podcast page 14

M-Learning with Podcast Lectures

21/03 2007 UICEE-ACEE Sieck | Herzog | FHTW Berlin Courseware • M-Learning • Podcast page 15

4 Learning environment

LMS eCampus

21/03 2007 UICEE-ACEE Jürgen Sieck | Michael A. Herzog | FHTW University of Applied Sciences Berlin

4 Learning environment

LMS eCampus

21/03 2007 UICEE-ACEE Jürgen Sieck | Michael A. Herzog | FHTW University of Applied Sciences Berlin

Booking a lecture

CLIX - Corporate Learning & Information eXchange

Startseite | Sitemap | Feedback | Abmelden

Vorlesungskatalog

21/03 2007 UICEE-ACEE Sieck | Herzog | FHTW Berlin eCampus page 18

List of participants

21/03 2007 UICEE-ACEE Sieck | Herzog | FHTW Berlin eCampus page 19

Learning material

21/03 2007 UICEE-ACEE Sieck | Herzog | FHTW Berlin eCampus page 20

Discussion board

21/03 2007 UICEE-ACEE Sieck | Herzog | FHTW Berlin eCampus page 21

Blackboard

21/03 2007 UICEE-ACEE Sieck | Herzog | FHTW Berlin eCampus page 22

5 Conclusion and Outlook

21/03 2007 UICEE-ACEE Jürgen Sieck | Michael A. Herzog | FHTW University of Applied Sciences Berlin

Mobile Learning

21/03 2007 UICEE-ACEE Sieck | Herzog | FHTW Berlin Mobile Learning page 24

21/03 2007 UICEE-ACEE Sieck | Herzog | FHTW Berlin Conclusion and Outlook • Content HUB page 25

21/03 2007 UICEE-ACEE Sieck | Herzog | FHTW Berlin Conclusion and Outlook • MOCCA page 26

21/03 2007 UICEE-ACEE Sieck | Herzog | FHTW Berlin MOCCA • Interface page 27

21/03 2007 **UICEE-ACEE** Sieck | Herzog | FHTW Berlin MOCCA • Interface page 28

21/03 2007 **UICEE-ACEE** Sieck | Herzog | FHTW Berlin MOCCA • Retrieval Interface page 29

21/03 2007 **UICEE-ACEE** Sieck | Herzog | FHTW Berlin MOCCA • Retrieval Interface Outlook page 30

Lifelong Learning Strategies – Teaching Material Production and Course Development at FHTW Berlin

1. Introduction
2. Curriculum design "Mobile Computing"
3. Production of Multimedia Learning Material
4. Multimedia learning material, communication tools, and LMS eCampus
5. Conclusion and outlook

21/03 2007 **UICEE-ACEE** Jürgen Sieck | Michael A. Herzog | FHTW University of Applied Sciences Berlin