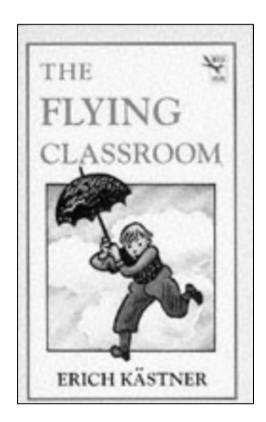




The Flying Auditorium

Elearning at the University of Vienna

Annabell Lorenz | Vienna University Computer Center



November 14, 2006 13 pm



Flying Auditorium: The vision of students attending courses in their pyjamas is not still up in the air any more?











Vienna University Computer Center

3 Departments:

NETWORK & INFRASTRUCTURE (telephony, networking etc.)

UNIVERSITY ADMINISTRATION (e.g. remotely administered PCs)

SOFTWARE & CENTRALIZED SYSTEMS & USER SUPPORT

- * software development & software management, databases, etc.
- * helpdesk
- * eLearning support



eLearning Platform | Characteristics

CREATION

* content, documents

COMMUNICATION

* platform-internal mailing system,

* discussion forums,

* chat

ORGANIZATION

* calendar (course-specific and global)

EVALUATION

* learning-groups and assigment/assessment management, tests

In WebCT Vista, the process of building content is separated from the process of managing it. Every teacher has two tabs in his radius of operation.



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- historical survey
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- III. support | resonance
- IV. evaluation | critique

Historical survey | University of Vienna

- founded in 1365
- first email in 1986
- first leased line to CERN in 1990
- large-scale university
- hosts ~ 80.000 users

Historical Survey | eLearning (implementation)

- pioneering: early innovators in the 90s
- reform: University Act (2002)
- "Strategy project" implementation of elearning

Technical Background | Software

- ILIAS test phase (abandoned) PHP
- WebCT Vista 2.1 (03/2004) JAVA
- migration to Cluster, Vista 3.0 (07/2005)
- 20 courses on ILIAS | >780 on Vista

per semester/term

Technical Background | Hardware

- Cluster in 2005
- 1 database
- 2 application nodes
- 1 admin server
- Loadbalancer/Content Switch
- ~ 350-400 courses/semester (≈ term)

University of Vienna | Specific Requirements

- large-scale university: 65.000 users, 7000 staff
- heterogeneous curriculums (traditional and Bologna)
- heterogeneous courses (scalability!)

Differences | standard installation

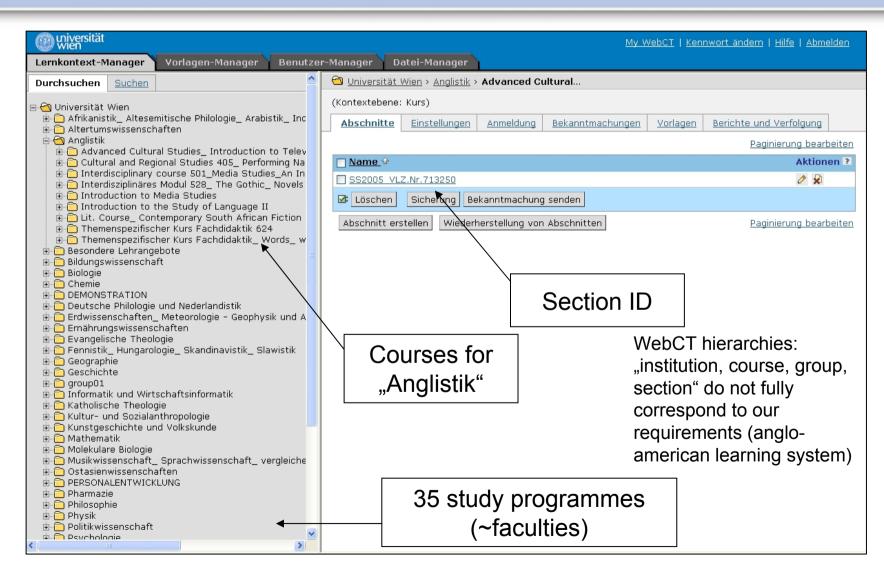
- anglo-american learning-style
- number of courses
- WebCT-internal interfaces not sufficient
- development of own interfaces as points of intersection to own databases (customization)
- high programming effort (+ resources!)
- Vista views (designer/instructor)

eLearning | Specific Requirements

- one institution (mapped in Vista)
- 35 "faculties"
- course level: title (e.g. Cultural Studies)
- sections (e.g.: WS2006_VLZ.Nr.123456)



technical background







Support | Impact on Users

policy approach voluntariness | no strict prescriptions

BLENDED LEARNING

effects - heterogeneous structures

→ courses and curriculums (scalability!)

- widespread use of WebCT!

- multipliers (hierarchies) in faculty staff!

purpose - harmonious integration in existing infrastructures

- high approval of WebCT



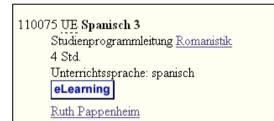
Vista Cluster | Points of Intersection

- comprehensive (!) software for university administration (teachers, students, courses, grades)
- Online Course Directory (university-wide)
- student enrolment: triple structure linked to external interfaces





enrolment of students | teachers | courses



Online Course Directory



external admin interface for teachers







LV-Verwaltung

000013: TEST-Lehrveranstaltung



<u>Direkte Einzelanmeldung</u>



Massenanmeldung



Angemeldete Studenten

<< zurück zur Lehrveranstaltungsliste

Liste der Lehrveranstaltungen | Elearning Homepage | Logout | Dokumentation

admin interface for teachers bulk or single enrollment of students

list of enrolled students





Support | Steering Activities

- multipliers in faculty staff
- didactical and technical support offices with helpdesk function
- training concept





Support | Course Concept

eLearning Introductory Course (all-day event – technical and didactical part)

Advanced Training Courses (technical)

- Content Building (half-day events)
- Communication Tools
- Learning Groups and Assignments
- Assessments

Didactical & Technical Workshops
Didactical Advanced Courses (,Blended Learning')
Training Course "e-competence"



Center for
Teaching and Learning
University of Vienna
http://www.univie.ac.at/lehrentwicklung/



© Photo: Ilse Lahofer, Vienna.



support | resonance



New Media Support Vienna University Computer Center http://www.univie.ac.at/ZID/elearning/

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Support | Surroundings

- FAQ database
- test projects (final exams, study entrance)
- streaming project (life-streaming and storage of attendance courses)
- scanner project
- e-tutors

Evaluation | Critique – general problems

- anglo-american learning style
- usability, lacking intuitiveness (teachers)
- language pack
- user tracking
- chat
- JAVA tools in general

Evaluation | Critique – specific problems

- JAVA & SSL (features, upload, download)
- different operating systems (Macintosh!)
- browser settings
- COURSE LIST!



V. evaluation | critique

course list – lack of tool to structure

Kursliste

CHATS - SS2005 Chat 1

Abschnittsdozent: Alma Mater Rudolphina, Inst. Admin Lorenz

DEMOKURS - Willkommen in der Demolehrveranstaltung

Abschnittsdozent: Alma Mater Rudolphina

*

AG Dissertation für DissertantInnen - RPH - Stadler - RW AGDiss

Abschnittsdozent: Christian Stadler

AG HISPANIDAD - ANDRES BELLO Y LA FILOSOFIA DE LA INTEGRACION - WS2005 VLZ.Nr.030257

Abschnittsdozent: Christian Stadler

AG Identité Européenne - francophone Lehrveranstaltung - 2005 SS2005 VLZ.Nr.300518

Abschnittsdozent: Christian Stadler

AG PANNONIA - Interkulturelle Kommunikation - WS2005 VLZ.Nr.030556

Abschnittsdozent: Christian Stadler

<u>Dipl.-Diss.-Seminar aus Rechtsphilosophie Der Ausnahmezustand – von Carl Schmitt bis Guantanamo –</u>

WS2005 VLZ.Nr.030257

Abschnittsdozent: Christian Stadler

eLaw-Übung zur Einführung in die Rechtswissenschaften und ihre Methoden (WebCT-Vista) -

SS2006 VLZ.Nr.030036

Abschnittsdozent: Christian Stadler

ERASMUS CENTRAL - Mitteleuropäische Rechtskulturen im Dialog - SS2006 VLZ.Nr.030579

Abschnittsdozent: Christian Stadler

<u>Erasmus Plus</u> <u>Europäische Rechtskulturen im Vergleich (...) - SS2006 VLZ.Nr.030424</u>

Abschnittsdozent: Christian Stadler

Erasmus Plus Europäische Rechtskulturen im Vergleich (...) - WS2005 VLZ.Nr.030093

Abschnittsdozent: Christian Stadler

Erasmus Primus Einführung in die Österreichische Rechtskultur (für Erasmus-Studierende) -

WS2005 VLZ.Nr.030110

Abschnittsdozent: Christian Stadler

ERASMUS-PRIMUS Österreichische Rechtskultur für ERASMUS-Studierende - SS2006 VLZ.Nr.030110

Abschnittsdozent: Christian Stadler

European Legal Thinking Constitutionalism and European Integration (Dipl Diss.Sem) -

WS2005 VLZ.Nr.030516

Abschnittsdozent: Christian Stadler

European Legal Thinking The Spirit of European Integration (Dipl Diss.Sem) - WS2005 LVZ.Nr.030515

Abschnittsdozent: Christian Stadler

<u>European Legal Thinking</u> The Spirit of European Integration (Dipl Diss.Sem) - WS2005 LVZ.Nr.030515

Abschnittsdozent: Christian Stadler

European Legal Thinking MONTESQUIEU The Spirit of Laws (Dipl Diss.Sem) - WS2005 VLZ.Nr.030427

Abschnittsdozent: Christian Stadler

Intensiv-Übung zur Einführung in die Rechtswissenschaften Rechtsphilosophie - Teil 3 -

WS2005 VLZ.Nr.030158

Abschnittsdozent: Christian Stadler

Intercultural HISPANIDAD - LEOPOLDO ZEA v la 'Identidad Latinoamericana' - SS2006 VLZ.Nr.030114

Abschnittsdozent: Christian Stadler

Introduction of the Philosophical Basis of European Legal Thinking I The Notions Rousseau and Kant -

2005 SS2005 VLZ.Nr.902073

Abschnittsdozent: Christian Stadler

Introduction to the Philosophical Basis of European Legal Thinking II The System Hegel -

2005 SS2005 VLZ.Nr.327054

Abschnittsdozent: Christian Stadler

Kernmodul Rechtsphilosophie - Einführung in Hegels Philosophie des Rechts - SS2006_VLZ.Nr.030427

Abschnittsdozent: Christian Stadler

Klassiker der Rechtsphilosophie Der Begriff der Demokratie in der politischen Philosophie Platons -

2004 WS2004 VLZ.Nr.327054

Abschnittsdozent: Christian Stadler

Political Philosophy of International Relations Edward GIBBON (...) - WS2005 VLZ.Nr.030424

Abschnittsdozent: Christian Stadler

Political Philosophy of International Relations Human Rights and Culture - tension or condition -

2004 WS2004 VLZ.Nr.327044

Abschnittsdozent: Christian Stadler

Political Philosophy of International Relations POLEMOLOGY (...) - 2005 SS2005 VLZ.Nr.327044

Abschnittsdozent: Christian Stadler

Politische Philosophie der Internationalen Beziehungen Los 'Principios de Derecho Internacional' -

SS2006 VLZ.Nr.030290

Abschnittsdozent: Christian Stadler

Übung zur Einführung in die Rechtswissenschaften und ihre Methoden - 2005 SS2005 VLZ.Nr.301077

Abschnittsdozent: Christian Stadler

Critical Outlook

- merger of WebCT Vista and Blackboard
- software not reliable
- call for proposals in 2007
- requirements: implementation, points of intersection, databases etc.



Thank you.



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Discussion.