Promotion and Support of Technology Enhanced Learning

Strenghts and Weaknesses of a Bottom-up Strategy

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Overview

Topics of this Presentation

- 1. Technology enhanced teaching @ VUT
- 2. Didactic support for TET @ VUT
- 3. Experiences since 2006
- 4. Analysis of activities and needs
- 5. Information and mobilization
- 6. summary





- Quotation of Ilonas presentation:
- Some teachers are learning autodidactically - others are coming to us and asking us.



Didactic Support of TET @ VUT

- Well elaborated & established support structures
- reached the early adopters but not the average teachers
- Need to change strategies
 - Either on management level: top-down approach (= not yet realistic)
 - Or on level of support center: individual communication – we have to learn more about our traget groups





Topic 1

Technology Enhanced Teaching @ VUT



TET@VUT: Policy

Basic Courses: slight obligation for TET

- have to have a representation in TUWEL
- BUT: no controle or sanctions
- particularly quality of courses is not controlled

All other courses: individual decision

- it is up to individual teachers if they use TUWEL, any other ICT tools, or none of them
- no benefits for quality except E-Learning Award





TET@VUT: Statistics (after 2 years)

- About 170 courses in TUWEL/Moodle the central supported LMS
- Unknown number of other courses using
 - Weblogs
 - Wikis
 - Homepages
 - TUWIS++



E-Learning – what for?

Organisation of courses and learning process

- Presentation of content / learning materials
- Offering simulations and games
- Stimulation of learner's activities
- Facilitation of learner's collaboration
- Communication between teachers and learners / learners and learners
- Feedback and answers to learners

Assessment of learner's achievements



Moodle based courses @ VUT

Many electronic supplements of traditional courses: "PDF-repositories"







Moodle based courses @ VUT

Some blended learning courses: face-to-face meetings AND TUWEL ELZ Course some self-directed learning



TUWEL > 111,100 TWelz





Moodle based courses @ VUT

None E-Learning in pure form:

courses without any face-to-face elements

(as far as we know)



Topic 2

Didactic Support for TET @ VUT





Didactic support for TET

Definition

- all activities helping teachers
 - to successfully apply information and communication technology
 - for planning, developping, organizing, delievering, and evaluating courses
 - of high quality
- referring to handling of ICT, didactics and organisation





Wide spectrum of support services

- Online FAQs
- Short explanations
- Online articles
- Helpdesk (telephone, e-mail)
- Individual counselling / coaching: LMS and other tools, organisation of online courses, educational design, learning material ...
- Support for generating projects
- Qualification of teaching staff: workshops

Planned

Written | Website





Support philosophy

For every question immediately the right

answer in terms of

- length
- abstraction level
- details
- complexity
- scope
- time consumtion
- So far the theory ;-) (we'll come to that later)





Didactic support @ VUT

Basic questions

- What are the best methods to design a technology enhanced course (according to my LOs)?
- Which ICT tools are available to realise my didactical ideas?
- How can I create high quality content for TEL?
- How can I apply chosen tools in an effective and efficient way?



Didactic support @ VUT

Our Policy

- Support whatever is possible
- But: concentrate on efficient solutions
- Main teaching strategy: Blended Learning
- Main goals: fostering
 - development of competencies
 - by active and
 - selfdirected learning

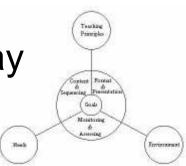


Question

• What are the best ideas for designing a technology enhanced course covering my particular goals?

Support services: didactical

- Workshops
- Personal consultation
- E-Learning Impulses / E-Learning Day
- Website / TUWEL courses



Learning

Feedback & Assessment



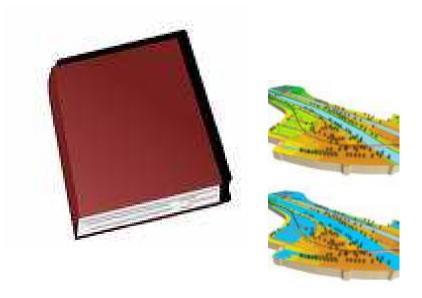


Question

How to create high quality content for TEL?

Support services: content creation

- Workshops
- Personal consultation
- TUWEL course



Question

Which ICT tools are available to realize my didactical ideas?

Support services: technical

- Workshops
- E-Learning Impulses / E-Learning Day
- Helpdesk
- Personal consultation
- TUWEL features course







Question

 How can I apply the chosen tools in an effective and efficient way?

Support services: technical

- Helpdesk
- Personal consultation
- Workshops





Topic 3

Experiences since 2006





TUWEL statistics – a repetition

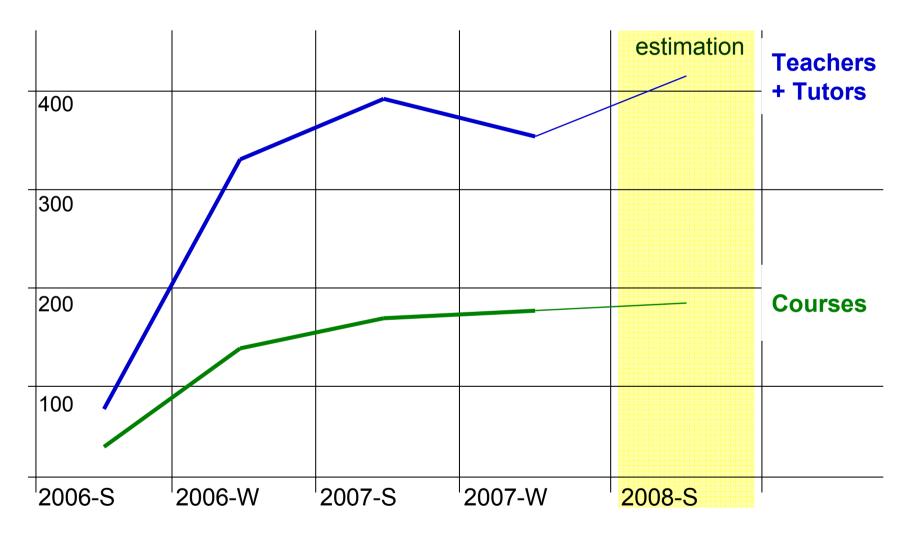
	Courses	Teachers (incl. Tutors)	Students
2006-S	45	86	1.828
2006-W	141	334	3.478
2007-S	166	392	5.219
2007-W	169	347	6.993

Unfortunately no quantitative information about other forms of technology enhanced teaching



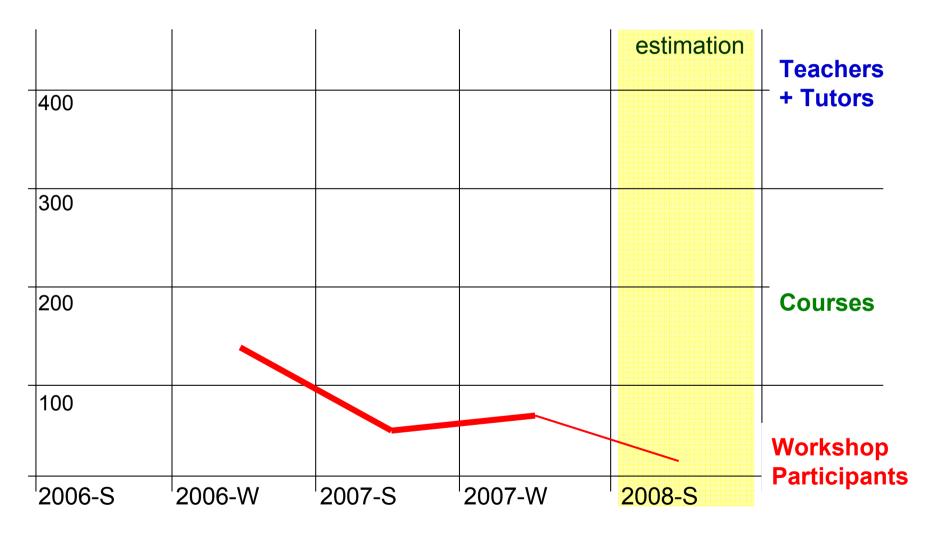


TUWEL statistics - a repetition





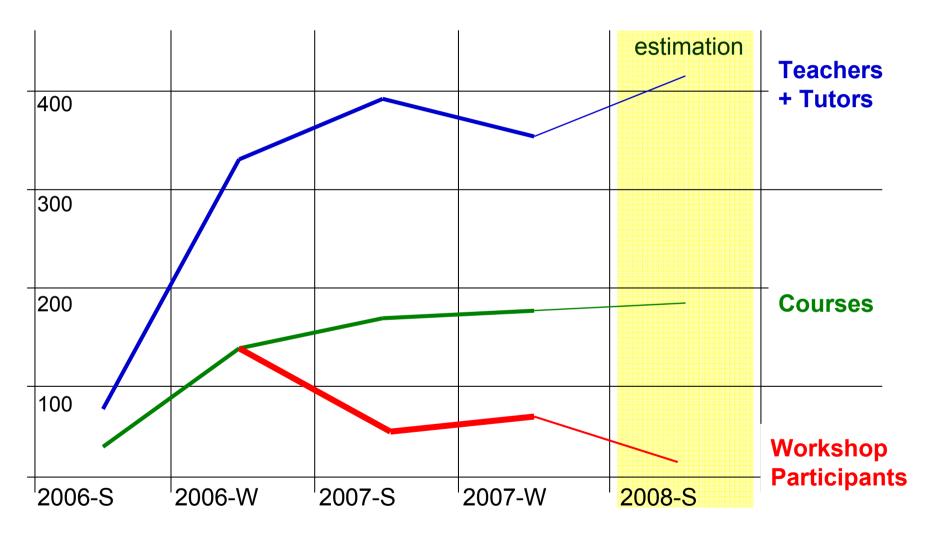
Workshop statistics







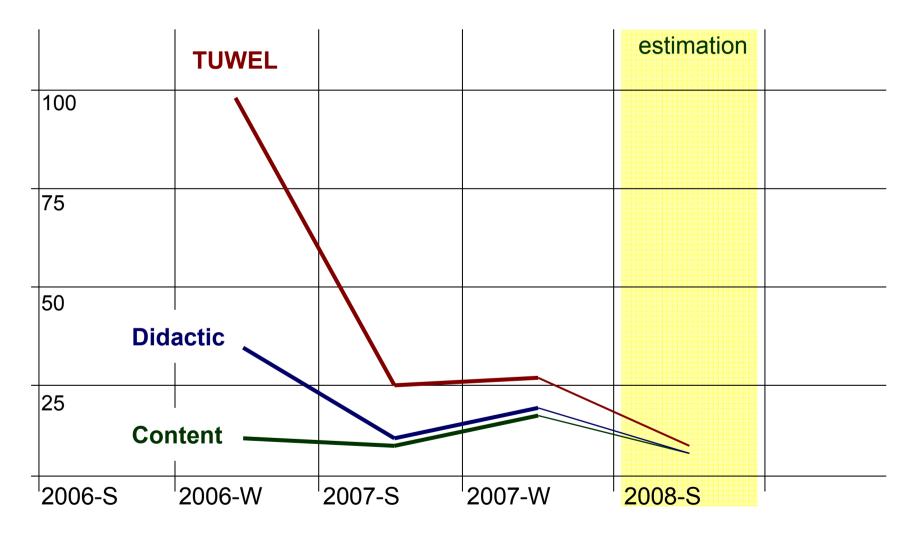
TUWEL statistics vs. workshops





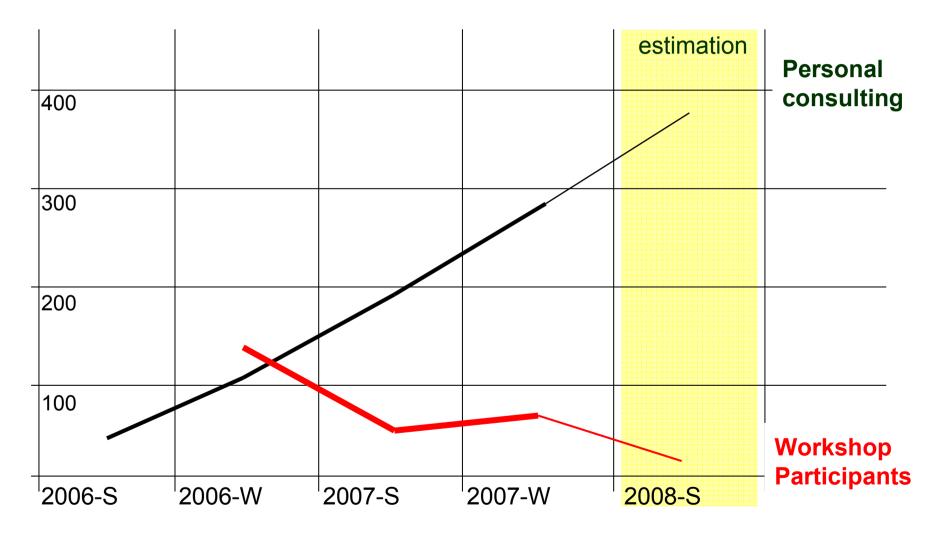


Workshop-Participants: Details





Workshop participants vs. consulting





Summary: Experiences

- Helpdesk and personal consultation are more frequented over the time
- Workshops and information events (E-Learning Impulses / E-Learning Days) are less frequented now than two years ago



Summary: Hypotheses

- Teachers (= customers) want and need answers and solutions HERE & NOW
- Teaching is a completely private sphere:
 Tooth Brush Syndrom: Teachers would rather share their tooth brush than information about their courses!
- The majority of teachers wants to find out by themselves, how "E-Learning" works
- Early adopters are different from average teachers





Digression: Early adopters

Are

- predominantly very engaged in the personal development of their students (an assumption)
- performing high quality teaching with or without "E-Learning" (an experience)
- often accepting or even asking for professional help (e.g. from support centers)
- Mostly conscious of their problems with teaching

Digression: average teachers

Are

- predominantly interested in their own personal development / academic carreer (an assumption)
- seldomly accepting or asking for professional advice and support (see the tooth-brush syndrom)
- less conscious of their own and their students' problems with teaching / courses

Summary: Conclusions

- Our formal support offers (information events, workshops) do not exactly meet the real needs of all target groups
- We will have to restucture our support offers according to the needs of our target groups
- That means to switch from the interests of early adopters to the needs of average teachers



Summary: Resulting agenda

- Analyze the
 - really existing teaching activities (beyond using TUWEL)
 - and individual needs and interests –
 particularly of average teachers (instead of
 early adopters)
- Intensify communication with teachers, students, and managers on an informal level



Topic 4

Analysis of Activities and Needs



Research Questions (I)

- Who practices technology enhanced teaching
 - how many teachers,
 - at which faculties and institutes,
 - on which hierarchical level?
- Who would like to practice TET but feels or is handycapped – and by what?
- What are teachers actually doing when technology enhanced teaching?





Research Questions (II)

- Where are teachers satisfied with their results vs. what would they like to improve?
- Where are students satisfied with courses vs. what do they want to be improved?
- Which kind of support do teachers (and students) factually expect from a support center like the ELC

Methods

- Informal talks with teachers and students
- Formal interviews (semistructured) with teachers and students
- E-mail survey (open questions)
- Planning for the future (optional)
- Online survey (representative)



First Results (Produced by an e-mail survey among appr. 1000 students with open questions)

- Some teachers have good TEL-concepts, but lack technical knowledge and skills to realize them effectively.
- Many of them learn how to teach only by trial and error – they do not ask for support.
- Little input (support) could result in valuable improvements





Open questions

- What are the reasons for this situation (compare the assumptions and hypotheses mentione before)
- How could this dissatisfactory situation be changed?

Topic 5

Information and Mobilization





Information & mobilization

Urgent agenda

- Talks on an informal individual level
- Communication on a formal level
 - Individual (see research activities)
 - Institutional: university management individual faculties

Information & mobilization

Information events

- E-Learning Impulse (every two months)
- E-Learning Day (once a year)

and workshops

will only be successful on the basis of successful informal communication and confidence building (an other assumption)

Summary





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Thank you for your attention

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