

K3 - Kollaboration, Kommunikation, Kompetenz

Building information and communication competence in a collaborative learning environment

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- 2. Preliminary findings from a use-case lecture in 2003
- 3. Requirements to the ongoing K3 project



The background of the K3 project

- K3 (German acronym for communication, collaboration, competence) is a knowledge management project based on the thesis that knowledge production as well as information competence are to a large extent the result of communication processes.
- The main operational area of K3 is academic teaching.
- The aim is to build information literacy and communication competence in learning contexts.



The background of the K3 project

- Information literacy includes
 - search, find and select needed information
 - evaluate the information's relevance and validity
 - apply information in given contexts/tasks
- Communication competence being the ability to argue one's opinion and to give adequate feedback to other people's view is crucial to achieve the best possible surplus value in knowledge management surroundings.



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The lecture's conceptual design

- The course "Communicative paradigm of knowledge management" was applied as a first use-case of K3's concepts in summer semester 2003 at the university of Konstanz.
- Blended learning: variation and combination of teaching methods.
 Alternation between face-to-face-lessons and virtual phases.
- Assumption: knowledge construction through active collaborative discourse is more effective and accepted than receptive individual learning.



Lehre



Forum zur Lehre

Admin | Forum-Übersicht | Suche in Forumsbeiträgen | FAQ | Teilnehmerprofil ändern Private Email schicken | Private Email lesen | Wer ist online? | Ausloggen

Kommunikationsparadigma des Wissensmanagement

Sortiert nach aufsteigendem Datum

mationen zu diesem Teilforum 🛨 aufwärts 📙 alle Beiträge anzeigen – nur Themen anzeigen				
<u>Betreff</u>	<u>Absender</u>	Views	Antworten	gesendet am
	griesbau_lehre	254	17	25.07.2003 14:03
T1 - Konzepte des Wissenmanagements	griesbau_lehre	590	55	03.06.2003 11:19
T2 - Modelle computervermittelter Kommunikation	griesbau_lehre	33	1	27.05.2003 13:05
□ T3 - Ausprägungen synchroner & asyn. Kommunikat.	griesbau_lehre	23	1	16.06.2003 19:19
[™] T4 - Kollaborative Lexika, Enzyklopädien	griesbau_lehre	189	18	23.06.2003 22:48
□ T5 - Motivation, Anreiz-/Belohnungssysteme	griesbau_lehre	27	1	16.06.2003 17:11
□ T6 - Visualisierung vernetzter Wissensstrukturen	griesbau_lehre	30	1	26.06.2003 10:54
□ T7 - Online/Virtual Communities/Online Community	griesbau_lehre	21	1	24.06.2003 13:16
™ T8 - Kollaboratives E-Learning	griesbau_lehre	774	184	25.07.2003 13:39
□ T9 - Open-Source als kollaboratives Wissensmanag.	griesbau_lehre	11	0	28.04.2003 15:21
T10 - Offene Publikationsformen	griesbau_lehre	8	0	28.04.2003 15:22
T11 - Evaluierung, Messparameter	griesbau_lehre	17	0	28.04.2003 15:23
	kroeger	29	2	10.07.2003 10:34
PROT zur Einschätzung der Diskussion im Forum	AlinaBey	30	0	20.05.2003 17:46
Notizen zur Forensoftware	Alex	93	10	09.07.2003 00:04
№ Notizen zum Enforum	Alex	61	5	23.07.2003 13:36
▼ DISK: Experimenteller Ansatz zur Bewertung	Alex	58	4	24.06.2003 02:14
<u>□ T12 - Kommunikationsparadigma im Kontext</u>	griesbau_lehre	11	0	25.07.2003 13:36

[www.inf-wiss.uni-konstanz.de/cgi-bin/wt_lehre/postlist.pl?Cat=&Board=paradigmasummer03]



Student's expectations

- Number of participants: 10
- Expectations: (from a survey at the lecture's beginning)
 - "to learn knowledge management essentials"
 - "group work"
 - "practical exercises"
 - "to get to know the benefits and limits of electronic communication forums"



The lecture's conceptual design

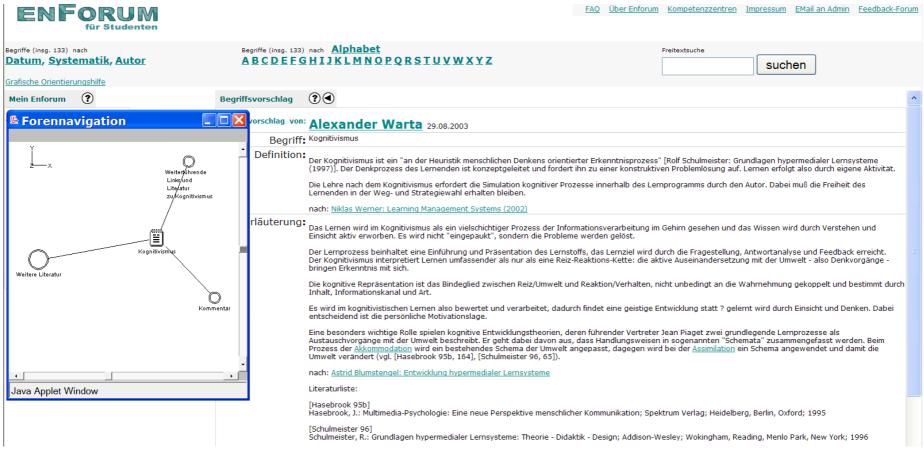
- Face-to-face lessons:
 - lecturing (shorter periods of approx. 30 minutes introducing the topic)
 - group work
 - discussions
- Virtual phases:
 - group exercises (with a forum software)
 - individual glossary work with ENFORUM URL [http://www.enforum.net]



Contents, procedures and rating

- Individual exercises:
 - Individual glossary work (defining important terms of the lecture) was solely done virtually through face-file-face communication.





[http://www.enforum.net/www/inf/iwk/enforum_studenten.nsf/]



Contents, procedures and rating

 Group work exercises (mainly discussed and worked out in forum software):

[http://www.inf-wiss.uni-konstanz.de/cgi-bin/wt_lehre/showthreaded.pl?Cat=&Board=paradigmasummer03&Number=2010&page=0&view=collapsed&sb=6&vc=1#Post2010]



Contents, procedures and rating

Rating of students work:

Intellectual feedback (text) from instructors and scores concerning discussed criteria*

* for example: length, arrangement, exemplification, comprehensibility, validity, news value, completeness, coherence, adequacy, argumentation



Students' feedback

- What did they learn?
 - knowledge management essentials
 - analyzing information resources in a structured manner
 - efficient working in partly virtual working groups
 - moderating electronic communication forums/solving communication problems
 - >>> knowledge & communication skills



Students' feedback

- General opinion
 - Variation of teaching methods including constructivist parts with self determined collaborative and individual work is motivating and inspiring but probably less apt for basic lessons with the primary goal of mere knowledge acquisition.
 - Virtual exercises without detailed working guidelines are overstraining.
 - Concept oriented work takes high learning skills as a prerequisite.
 - Learning success is probably at least as high as success achieved by traditional lecturing



Students' feedback

- Opinion on rating
 - Students sense immediate rating as a very helpful feedback.
 - The idea of automatic rating processes with its limited quality control is not well accepted by students yet.
- Opinion on used forum software
 - Danger of cognitive overload
 [http://www.inf-wiss.uni-konstanz.de/cgi-bin/wt_lehre/showthreaded.pl?Cat=&Board=paradigmasummer03&Number=1804&page=0&view=collapsed&sb=6&vc=1]



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- The used concept seems to be an appropriate teaching and learning method.
- It seems to be essential to provide the necessary resources and motivating exercises for the efficient use of the K3 environment to the participants.



- Ongoing intellectual evaluation of students' contributions is very labour-intensive. The question is how to make rating more feasible?
- Automatic rating processes could serve as first filters that do not determine the complete rating but support the scholars in their rating decisions.



- Communication forums are a basic means for knowledge sharing but can also end up in total chaos.
- New concepts for semantically structuring communication forums and support of collaborative work need to be developed.



- Status of K3:
 - Fundamental design and concept of K3 software already developed
 - Programming work starts in October 2003
 - First prototype is to be expected at the end of 2003
 - Project homepage: [http://www.k3forum.net]



Thank you

Thank you for your attention!

