



Moodle in Teaching – Part I

How to use Moodle for teaching “Integrated Watershed Management”?

E-Learning in higher education: Current state

e-learning scenarios

- Blended Learning: combining face-to-face instruction and computer-mediated instruction
- a growing number of universities offer a select set of academic degree and certificate programmes via the internet at a wide range of levels and in different disciplines

e-learning technologies

- most universities have some kind of learning management system
- E-Learning 2.0: using web 2.0 applications in educational settings
- computer-delivered lectures as a service
- open courseware, open educational resources
- mobile learning

Models of Blended Learning in HEI

Enhancement

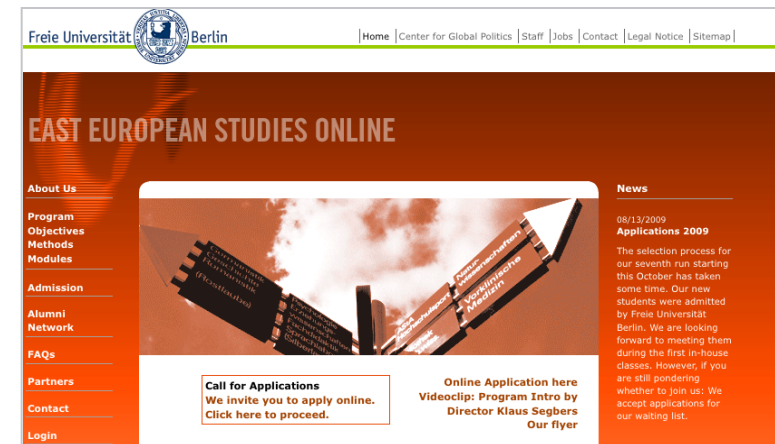
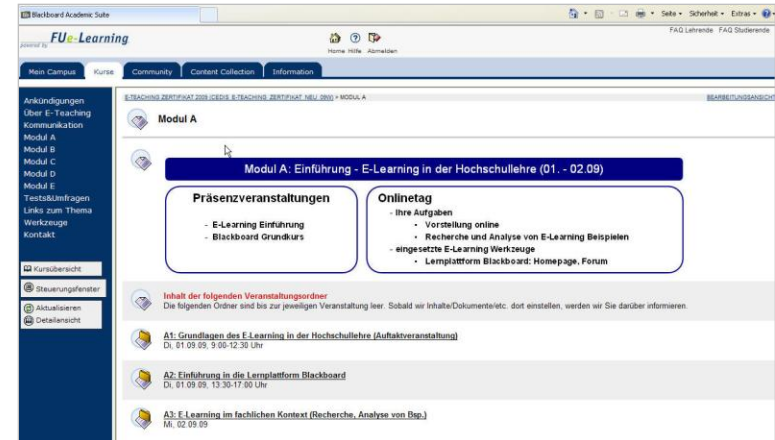
- distributing information
- delivering (multimedia) content
- including tests and surveys

Integration

- e-learning elements and in-class teaching have specific tasks
- classroom- and online-instruction are interrelated

Virtual learning

- mostly online distance learning with a few in-house workshops



Bachmann et al. 2002

Learning Management System (LMS)

A learning management system (LMS) is a programme that supports web-based teaching and learning. Using an LMS, one can easily deliver, manage and track online-courses.

Major features of an LMS

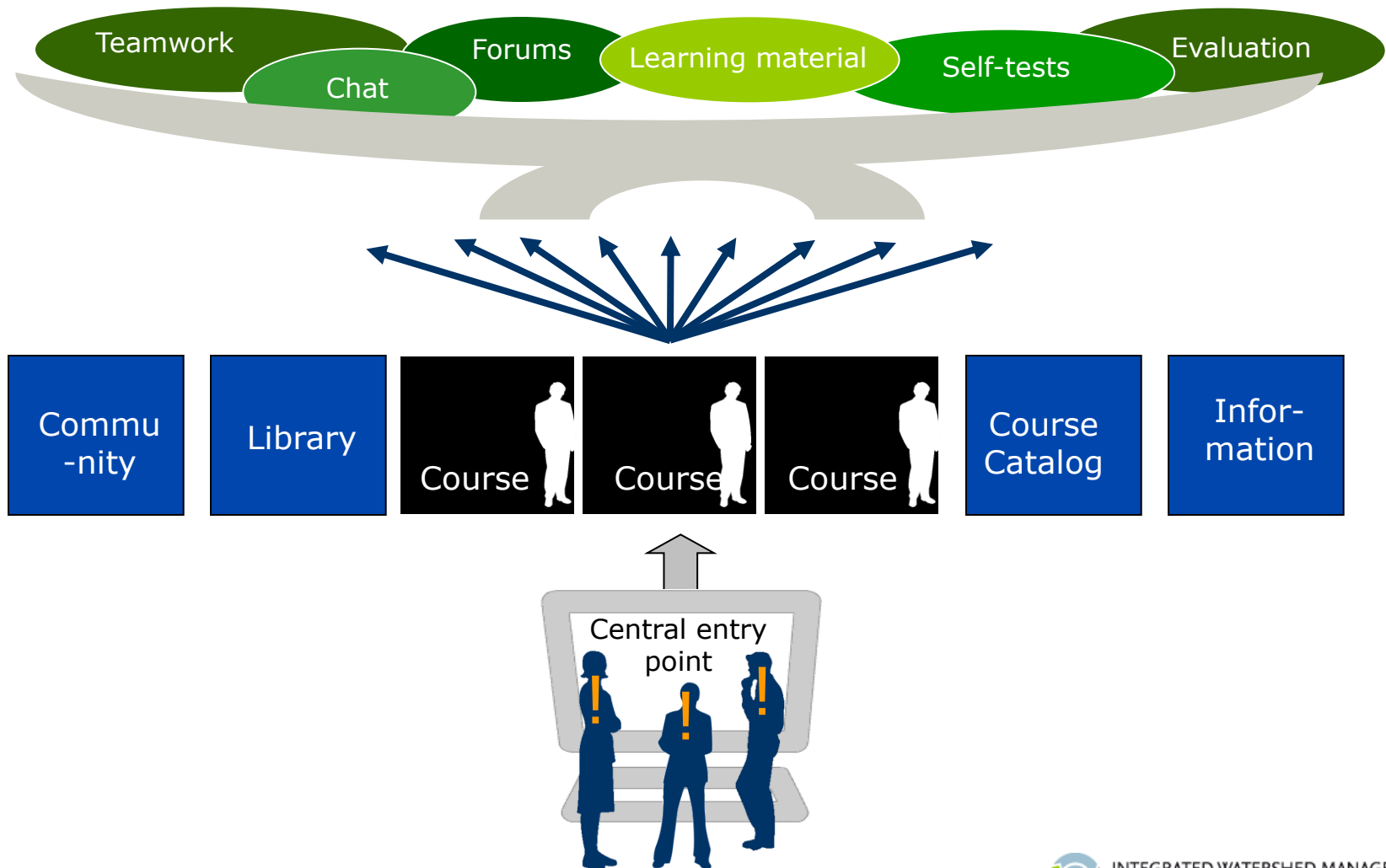
- delivering and presenting learning content
- synchronous and asynchronous online-communication and collaboration
- online tests and surveys
- managing learners, learning content and courses



OLAT - Online Learning And Training
The Open Source Learning Management System



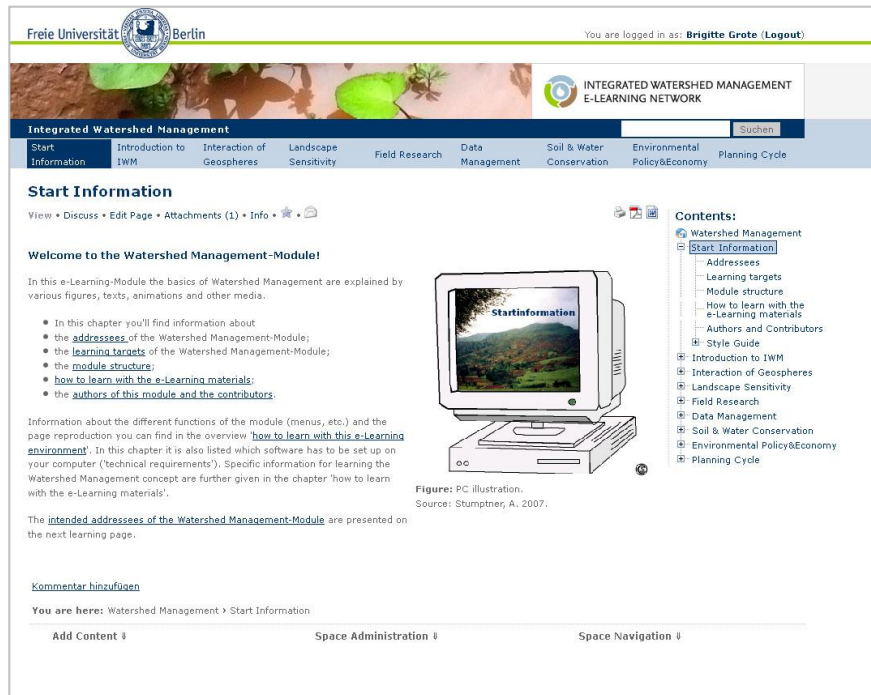
Learning Management System



E-Learning in IWM

Providing e-content

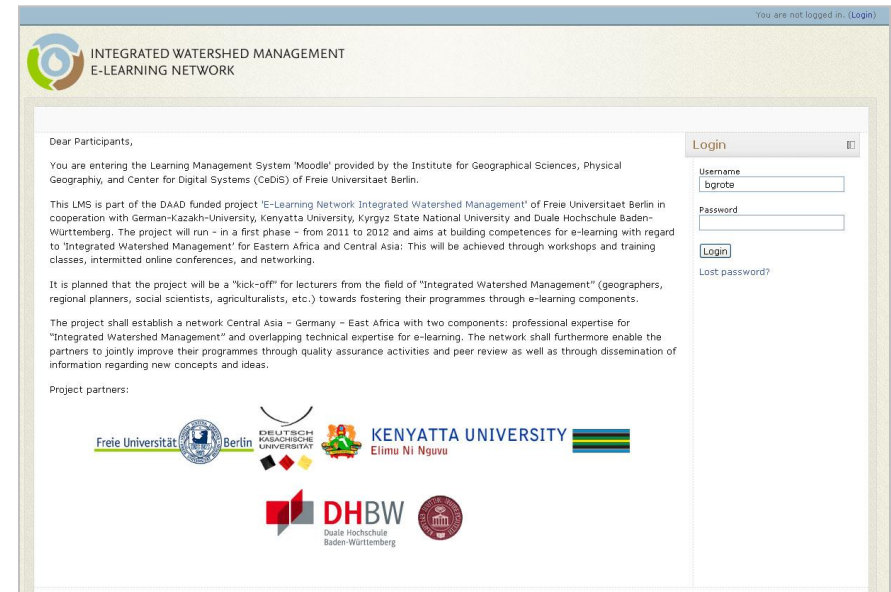
IWM e-learning modules (wiki)



The screenshot shows a Moodle LMS interface for the 'Integrated Watershed Management E-Learning Network'. The user is logged in as 'Brigitte Grote'. The page title is 'Start Information' and it includes a navigation menu with options like 'Introduction of IWM', 'Interaction of Geospheres', 'Landscape Sensitivity', 'Field Research', 'Data Management', 'Soil & Water Conservation', 'Environmental Policy&Economy', and 'Planning Cycle'. The main content area features a 'Welcome to the Watershed Management-Module!' section with a list of bullet points and a 'Contents' sidebar. A PC illustration is shown with the caption: 'Figure: PC illustration. Source: Stumpner, A. 2007.'

Blended learning

Moodle (LMS) for teaching IWM content



The screenshot shows the Moodle LMS login page for the 'INTEGRATED WATERSHED MANAGEMENT E-LEARNING NETWORK'. The user is not logged in. The page includes a 'Login' form with fields for 'Username' (containing 'bgrote') and 'Password'. Below the form, there is a 'Dear Participants,' message and a 'Lost password?' link. The page also features logos for project partners: Freie Universität Berlin, DEUTSCH MÄRISCHE UNIVERSITÄT, KENYATTA UNIVERSITY, and DHBW Duale Hochschule Baden-Württemberg.

Teaching practice in IWM?

For my classes, I use a lot of authentic material such as newscasts, video clips, documentaries,

Knowledge acquisition is an important issue. Sometimes, I provide them with small self-tests so that they can judge their knowledge level. However, this takes a lot of time, which is missing elsewhere, and hence I only do this rarely. Yet, I observe that the students find this kind of self-assessment very helpful in identifying gaps in their knowledge and would prefer to do more.

Using Moodle for enhancing a seminar

I usually ask my students to read some texts to prepare the next classroom session, or ask them to do an assignment, which I usually send by e-mail to my students. This often leads to questions from students, others claim not to have received the email etc. In short, I spend an awful lot of time on answering iterative questions, re-sending files, etc. I would happily do without these emails and this “chaos” and would like to have the files and the assignments available to everybody in a more transparent way.

E-Learning

LMS Moodle

- provide information
- easy access to learning material (e-content)
- sending e-mails
- forum for questions that concern everybody (FAQ)
- posting and managing assignments
- plus: surveys to get to know state of knowledge

Using Moodle for enhancing a seminar

Moodle course

- extra material, further reading
- multimedia e-content for ind. study or assignments (slides, links, pdf, WBT, podcasts, videos, ...)
- assignments (forum, worksheets, ...)
- store students´ results (forum, wiki, ...)
- communication (email, chat, forum, ...)
- course evaluation (survey)
- self assessment (tests)

4 First E-School (10.-16.10.2011)

Here, you will find the presentations, documents, handouts etc. from the first E-School in Berlin, 10.-16.10.2011.

 [Workshop programme](#)

2 2. Online-Phase: starting October 2011

In the second Online-Phase, you will continue working in groups on the online learning modules for your topic, using the FU wiki. In case of questions or problems please don't hesitate to contact us.

You can use the forum for your group to exchange ideas or data and discuss the realisation of your online-module.

-  [Field research](#)
-  [Data management](#)
-  [Environmental changes](#)
-  [Environmental policy, legislation and economy](#)

Evaluation of the first workshop

Please follow the link below to see the results of the online evaluation of the first workshop.

 [Evaluation of the first workshop](#)

Using Moodle to provide MM material

For my classes, I use a lot of authentic material such as newscasts, video clips, documentaries, etc and also websites of institutions, pictures I find on the web, etc. However, at present, the usage is mainly restricted to the classroom, as I cannot make the material available to the students as easily as for instance, texts, especially since I cannot put it openly on the web. However, I would like to enable my students to work with this material between classes, e.g. doing an assignment or preparing a presentation.

E-Learning

Content area

- material from file area
- embedded videos and audios
- links to external sources

Assignments and tasks for working on material

Group space

Using Moodle to keep in touch

My students usually spent some time doing field work at places not close to the university. At present, I use a mailing list for keeping in touch with them, and students inform me about the results of their work. Unfortunately, the other students cannot really share the experiences with their fellow students. I would like to find a way of tutoring my students which is more transparent and which enables exchange between students at the university and in the field. Also, students should be able to share content and work collaboratively.

E-Learning

Forum / Blog

- reporting at regular intervals
- questions and exchange

Mail

- personal contact

Wiki

- collaborative activities

Content area

- provide material
- links

Folder/wiki:

- final reports by students

Using Moodle to engage students

In my lectures I try to teach in a more learner-oriented way and motivate students to contribute actively to the class. To achieve this, I have introduced what I call “revision question”: A group of students prepares a presentation for next weeks session that answers this question. Although this method is successful as such, I am not really satisfied with the fact that the questions and the students answers are not available to everybody in written form so that students can e.g. use it for preparing the exam.

E-Learning

Forum

- post questions in a forum, student answer to your post
- add links to material used (or provide them at a central place in the course)

Wiki

- a wiki page for each group which can be composed collaboratively as a group

Using Moodle for self-assessment

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E-Learning

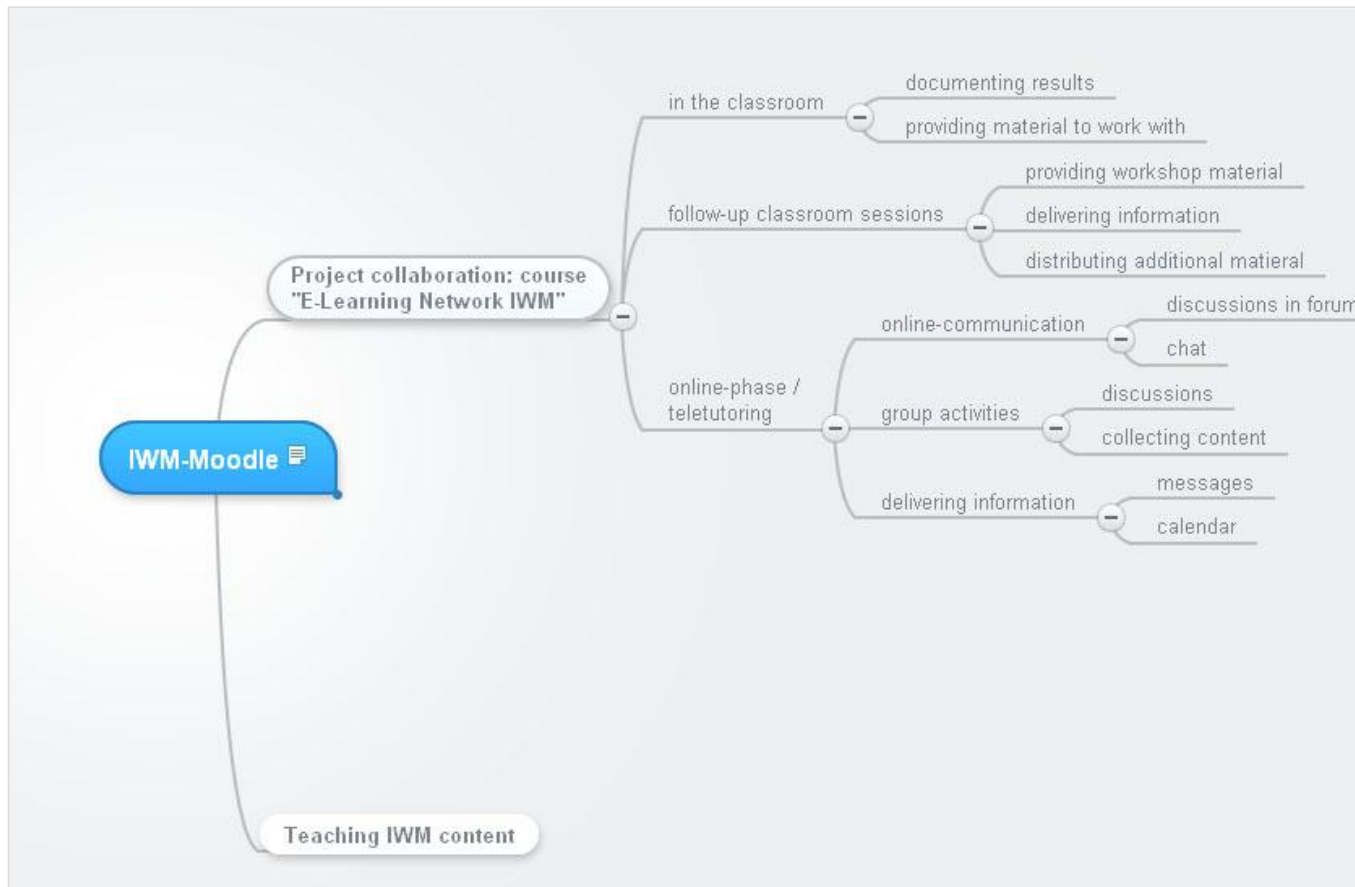
Tests

- self-tests when a subtopic is finished
- self-tests to prepare for an exam
- tests with automated feedback

Forum

- answer questions concerning the test

Moodle for teaching



Next: Moodle in action! – Have fun!

You are not logged in. (Login)



INTEGRATED WATERSHED MANAGEMENT
E-LEARNING NETWORK

Dear Participants,

You are entering the Learning Management System 'Moodle' provided by the Institute for Geographical Sciences, Physical Geography, and Center for Digital Systems (CeDiS) of Freie Universität Berlin.

This LMS is part of the DAAD funded project 'E-Learning Network Integrated Watershed Management' of Freie Universität Berlin in cooperation with German-Kazakh-University, Kenyatta University, Kyrgyz State National University and Duale Hochschule Baden-Württemberg. The project will run - in a first phase - from 2011 to 2012 and aims at building competences for e-learning with regard to 'Integrated Watershed Management' for Eastern Africa and Central Asia: This will be achieved through workshops and training classes, intermittent online conferences, and networking.

It is planned that the project will be a "kick-off" for lecturers from the field of "Integrated Watershed Management" (geographers, regional planners, social scientists, agriculturalists, etc.) towards fostering their programmes through e-learning components.

The project shall establish a network Central Asia – Germany – East Africa with two components: professional expertise for "Integrated Watershed Management" and overlapping technical expertise for e-learning. The network shall furthermore enable the partners to jointly improve their programmes through quality assurance activities and peer review as well as through dissemination of information regarding new concepts and ideas.

Project partners:



Login

Username

Password

Login

[Lost password?](#)