Case study

ACADEMIC RESEARCH AND WRITING

Implementation of the Inverted Classroom Model (ICM) at the University of Applied Sciences (UAS) Hamburg



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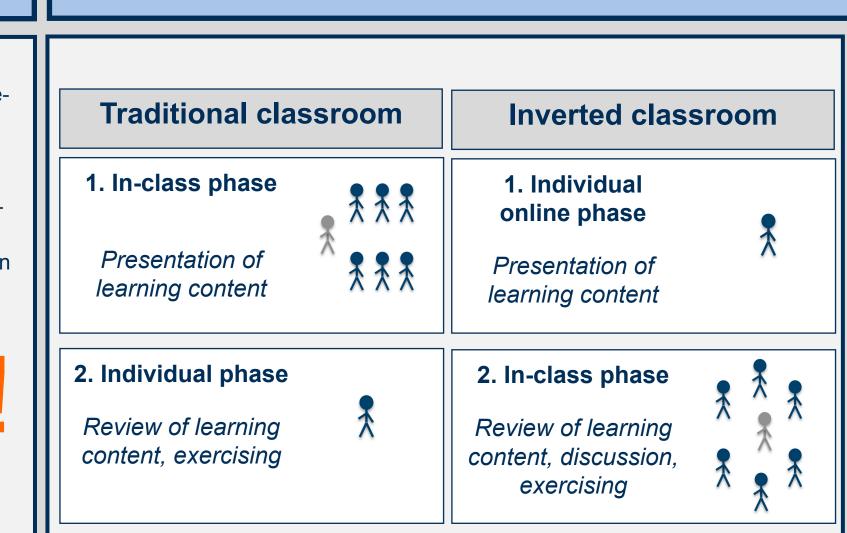
Observations from previous courses

Lack of awareness of relevance of academic rese arch and writing skills Lack of compliance with Lack of awareness of pla-

- Lack of intrinsic motivation
- Procrastination

Observations were used for the redevelopment of the module ACADEMIC RESEARCH AND WRITING

Theoretical framework for implementation of the ICM



Topics

Research logic

Structuring

technique

Referencing

Elements of a rese-

Interpretation of a

Academic language

and writing style

Clear phrasing and wording

Headline on the cover page

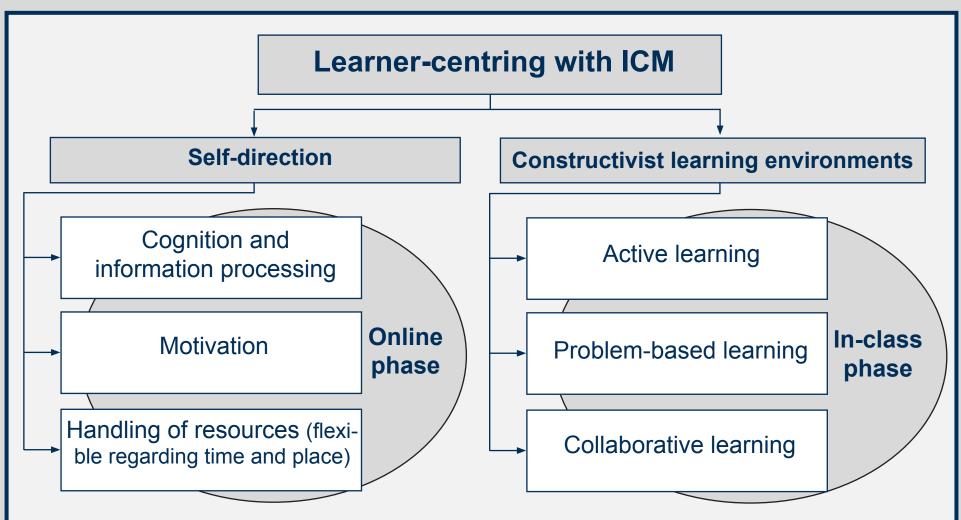
Possible aims of research

Subject matter of your research

Description of aim (the "problem"

Section 3 ► Aligning and the triangle of synchronisation

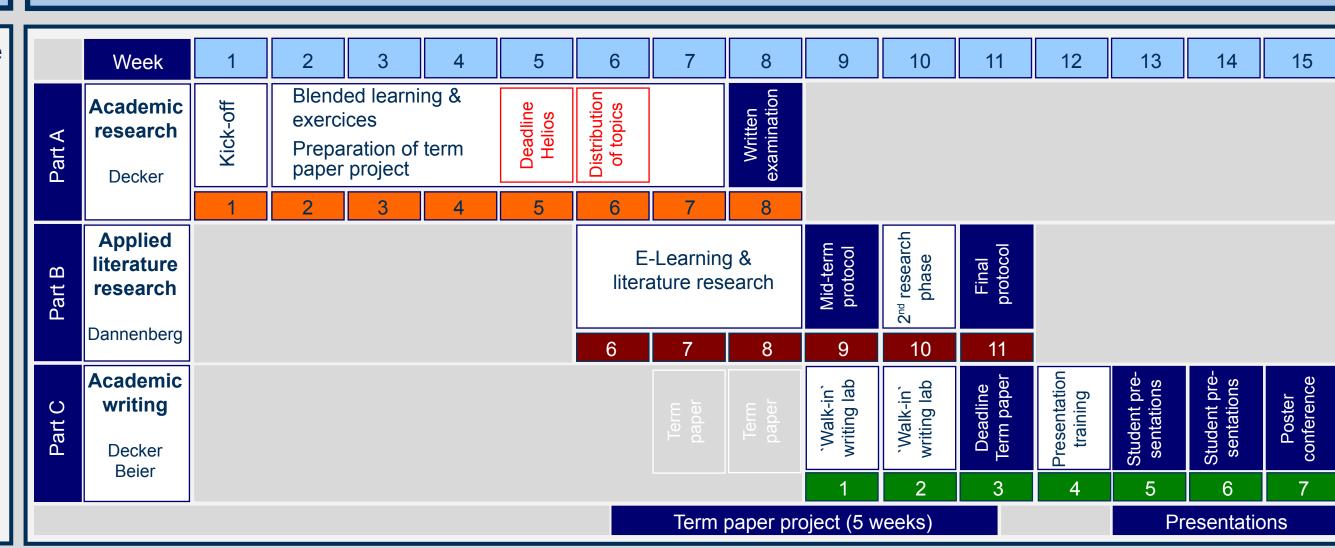
ection 3 ► From title to research question



New syllabus

- 1. Academic research in theory and practice
- 2. Research principles
- 3. Research logic
- 4. Research process
- 5. Identification of a topic 6. Sourcing of information
- 7. Elements of a research paper
- 8. Interpretation of a topic
- 9. Structuring technique 10. Referencing
- I. Academic language and writing style
- 12. Project management 13. Technical aspects
- 14. Academic presentation

New structure

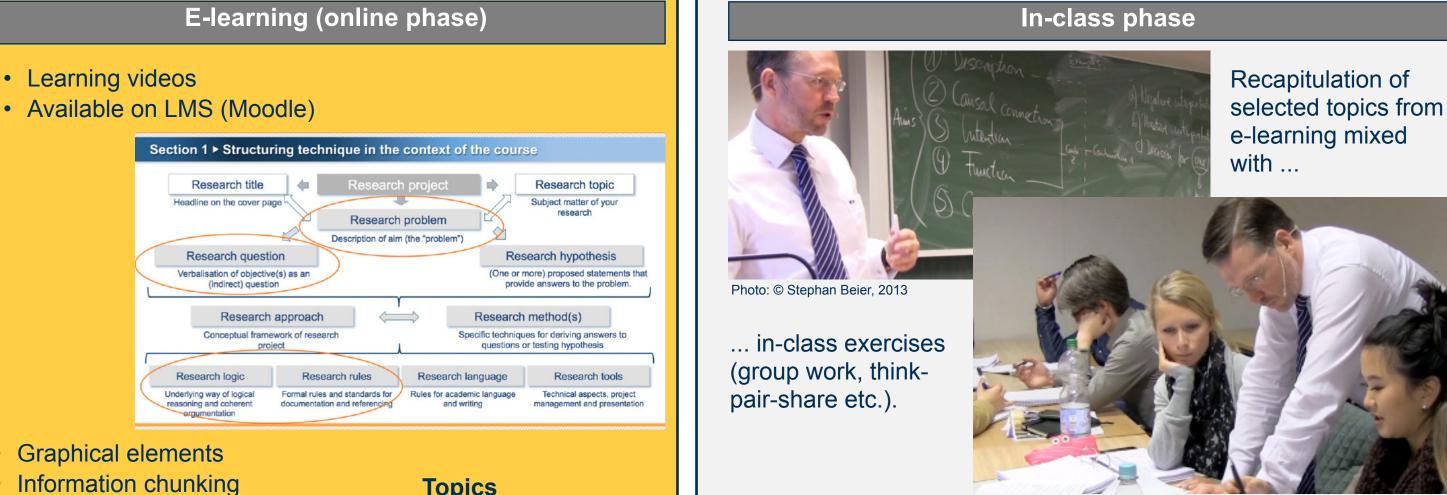


Competencies

- Students are able to give examples of generally accepted academic principles and to identify academic misbehaviour (comprehension, knowledge).
- Students are able to distinguish academic research processes from random approaches of problem solving (comprehension)
- Students are able to identify a topic/title and to develop a corresponding rese arch aim (synthesis).
- Students are able to conduct a literature research and to evaluate the quality of sources of information (evaluati-
- Students are able to deduce an interpretation of a topic from a theoretical perspective and/or against the background of a given problem setting (analysis).
- Students are able to develop a structure of a research paper that corresponds with the interpretation (synthe-
- Students are able to paraphrase literature and to apply rules of referencing and citation in a consistent way (comprehension, application).
- Students are able to apply the principles of academic language and writing (application).
- Students are able to organise their research project and to present and to debate their findings with other students and the instructor (application).

Conceptual elements of redesigned course

Academic research



In-class phase

Literature research **Detley Dannenberg**

Activities

- Students watch e-learning videos and receive research Students submit a mid-term research protocol and receive individual sug-
- gestions from instructor (librarian) Students submit a final research protocol that will be graded (weighting
- 5% of final grade)



Field trip and guided tour Deutsche Zentralbibliothek für Wirt-

schaftswissenschaften Leibniz-Informationszentrum Wirtschaft, Ham-

Objective: Familiarising students with a professional library

Academic writing

Main topic summer term 2014 Entrepreneurship

- 40 topics addressing a diverse set of aspects related to entrepreneurship
- Academic level of topics adjusted to
- Individual topic for every student (randomly distributed)
- Topics with potential for intrinsic motivation

Walk-in writing lab Every student has the option to register in Moodle for up to two one-on-one sessions with the course

- Objective session 1: Clarifying research design (research question, outline etc.) Objective session 2: Clarifying individual ques-

Students are provided with master files erm paper projects form basis for lab

Summer term 2014 • 40 students registered for the course 40 students took the written examination

> paper due to illness · One student was not able to finish her

• 38 students handed in term papers (95%)

One student had to postpone her term

Preliminary findings

• 64 students registered for the course

• 70 students registered for the course

• 61 students registered for the course

• 46 students handed in term papers (75%)

• 58 students handed in term papers (83%)

46 students handed in term papers (72%)

Winter term 2012/2013

Summer term 2013

Winter term 2013/2014

- term paper on time 38 students handed in presentations
- 36 students presented their presentations in-class
- Two students had to postpone their presentations due to illness
- 38 students handed in posters

Next steps

- Additional e-learning videos
- Formative assessments (electronic quizzes and tests)
- Exercices linked to individual student research projects
- Mobile versions
- Videos of student presentations

Term paper project

- Small groups of Two instructors sup
 - port students

Poster conference

Design of academic

posters with Power-

Presentation-lab and poster-lab

Academic presentation

In-class presentation

- Academic presentation, "freestyle" in terms of personal presentation style
- Small groups of 6-8 students plus instructor Medium: PowerPoint© plus beamer
- No grading of presentation

Objectives

Settings

- Gaining confidence and overcoming possible anxieties Receiving individual feedback from peers and instructor