

# Learning Rooms Service Concept „University as a Learning Place“

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20th May 2017, Nancy



# Overview

## ■ Short overview:

- University of Bremen
- Center for Multimedia in Higher Education (ZMMML)

## ■ Learning Rooms

- Background and Objectives
- Concept and Configuration
- Searching, Booking and Rating
- Evaluation and Feedback of Students
- Future Development

# University of Bremen

## Overview

# University of Bremen

- Founded in October 1971
- Approx. 19.000 students
- University with 3.500 employees
  - Approx. 2.000 Scientists and Scholars
  - Approx. 300 Professors
  - Approx. 1200 Administrative and Technical staff

## Technology Park:

- 500 companies with approx. 7.300 employees
- 20 institutes with approx. 1.500 employees



# Center for Multimedia in Higher Education (ZMM<sub>L</sub>)

E-Learning@University Of Bremen

# E-Learning@University of Bremen

- 2000: Center for Multimedia in Higher Education (**ZMM**)
- 2003: University Bremen has been selected as one of the 8 best practice universities for eLearning in Europe ("eight best practice case studies", June 2003, PLS Ramboll)
- 2008: 1st Sustainability Approach of University
- 2009: Medidaprix 2009 (media didactic price)
- 2012: Reorganisation to meet current Needs (e.g. Executive Board)
- 2016: 2nd Sustainability Approach of University

# Services for E-Learning

- Learning Management System (Stud.IP)
- E-Assessment / Testcenter
- Media Services (Lecture Recordings, Online Courses)
- Learning Rooms for Students
- Blogs & E-Portfolio
- Training, Consulting, Support
- R&D Projects (30+ national and international projects)

# Learning Management System (Stud.IP)

■ Since 2004

■ 2.400+ Courses each Semester (>75% in 2016)

■ 26.000+ registered Users

■ Integrated E-Services

■ Library services (eLib)

■ Online Course Evaluation

■ Mobile Lecture

■ Course Planning and Management

The screenshot shows the Stud.IP homepage. At the top, there's a navigation bar with links for 'Startseite', 'Suchen', 'Loggen', and 'Logout'. Below the navigation, there's a banner with a photo of students working on a computer. The main content area has several sections: 'Startseite für Dozentinnen bei Stud.IP' (with links to 'Meine Veranstaltungen', 'Studygroup anzeigen', 'Mein Planer', 'Terminkalender / Adressbuch / Bürokalender', 'Profil', 'Erstellen / Terminvergabe', 'Suchen', 'Persönliche / Veranstaltungspfade', 'Forum', 'Hilfe', 'Schulübersicht / FAQ', and 'Nachricht an den Support'); 'Ankündigungen' (with a list of announcements); and a 'Veranstaltungssuche nach Zeiten' section.

[elearning.uni-bremen.de](http://elearning.uni-bremen.de)

# E-Assessment / Testcenter

- One of the largest Testcenter in Germany (120 Computers)
- 9.000+/semester (2016)  
(90.000+ single assessments since 2004)
- Winner of the media didactic price:  
Medidaprix 2009



[eassessment.uni-bremen.de](http://eassessment.uni-bremen.de)

# Media Services

- Infrastructure for Production,  
Management and Online-  
Publication of  
video based lectures
- Live-Recordings of Lectures  
and Events -> Mobile Lecture
- Production in Film Studio  
with green screen
- Automated Lecture Capture



# Media Services: Mobile Lecture

## Live Recordings of Courses and Events

- Providing as „Video on Demand“ synchronized with all materials

The screenshot shows a mobile web interface for a lecture. At the top, there's a navigation bar with links for 'Feedback', 'Impressum', 'FAQ', 'Kontakt', and 'Home'. Below that is a logo for 'Universität Bremen' and the text 'mobile LECTURE'. The main content area has a video player showing a man in a suit speaking. To the right of the video is a historical map titled 'Historischer Überblick – Abbasiden und Teilung' (Historical Overview – Abbasids and Division). The map shows the Abbasid Caliphate at its peak, spanning from North Africa to Central Asia, with various regions labeled like 'ABU AL-SARAJAH I (756-833)' and 'Abu al-'Abbas al-Saffah (750-813)'. Below the map is a list of 14 course topics.

| 1. Algebra in den Ländern des Islam              |
|--|
| 2. Historischer Überblick: Erste Kalifen         |
| 3. Historischer Überblick & Innoventionen        |
| 4. Historischer Überblick: Abasiden und Teilung  |
| 5. Mathematische Geschichte                      |
| 6. Forschungsgebiete der Arabischen Mathematiker |
| 7. Abu al-'Abbas al-Saffah als Klonwiztum        |
| 8. Die Wurzen von Al-Khawarizmis Algebra         |
| 9. Indische Zahlensystem                         |
| 10. Al-Khawarizmis wichtigste Werke              |
| 11. Al-Khawarizmis Algebra                       |
| 12. Al-Khawarizmis Algebra                       |
| 13. Algebra (=Ergänzen)                          |
| 14. Sechs Informationsarten für Gleichungen      |

- 1.500+ live recordings from all faculties

from all faculties

[lecture.uni-bremen.de](http://lecture.uni-bremen.de)

# Media Services: eGeneral Studies Video based Online Lectures produced in Film Studio

- Each lecture with 3CPS
- Lecture structure:  
15+ Chapters with  
3 Episodes à 30min
- Didactical concept: video length,  
learning goals, exercises, self-  
assessment, literature, interviews
- Online support within LMS  
(1. 100+ attendees / semester)
- Monthly exams in Testcenter  
(540+ exams / semester)

The screenshot shows two course pages from the eGeneral Studies platform:

- Projektmanagement:** Features a video thumbnail of a person working at a desk, a graph titled "Weiterentwicklung", and a section on "Technik, Energy und Nachhaltigkeit".
- Klimaschutz und Klimaanpassung:** Features a video thumbnail of a person pointing at a globe, three globes showing temperature changes (2030, 2060, 2085), and a section on "Prognose der Temperaturentwicklung".

Both pages include navigation links for "Informationen für Studierende", "Informationen für Lehrende", "News", "Klausurtermine", "Kontakt", and "eGENERAL STUDIES". The bottom of the page includes links for "Informationen", "Downloads", and "Support".

[www.egs.uni-bremen.de](http://www.egs.uni-bremen.de)

# Learning Rooms

Started in 2011

# Background and Objectives

## ■ Background:

- Missing infrastructure that meets the needs and requirements of students for learning rooms
- Workload calculation include phases of self-study (up to 40% or more) and with that also the option for group work

## ■ Objectives:

- Support learning and working needs of the students
- Especially in the phases of self-study and group work
- Establish the University as a Learning Place, especially in phases of Self-Study

# Concept

- Based on
  - Information Commons (USA) and
  - Learning Resource Centres (UK)
- Cooperation with the University Library and Facility Management
- Overall university service concept: "University as a learning Place"
  - **Physical** Multimedia learning rooms (**for students only**)
    - Booking of learning rooms from the LMS
    - **Virtual** learning rooms: Personal Learning Environments (PLE)
    - Search for free seminar rooms from the LMS
    - Possibility of room rating

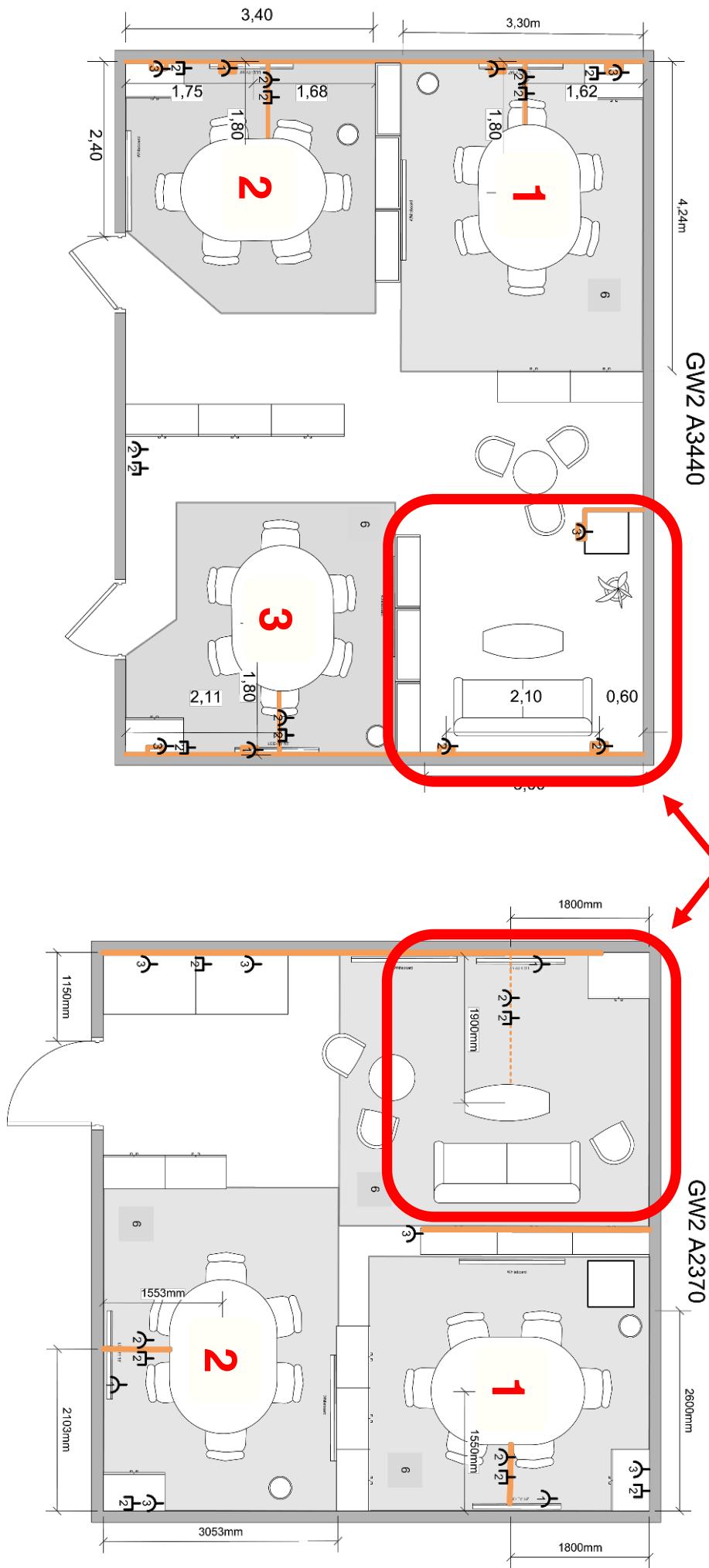
# Equipment and configuration of a multimedia learning room

- Screen (55 Inch)
- Computer with Standard-Software (Windows-PC)
- Table+Chairs, Partition walls
- Whiteboard
- Terms of Use and Contact Information
- Mediabox with connection possibilities for own devices (Notebook, Tablet, Smartphone, USB)



# Configuration: Two learning rooms with 2/3 settings

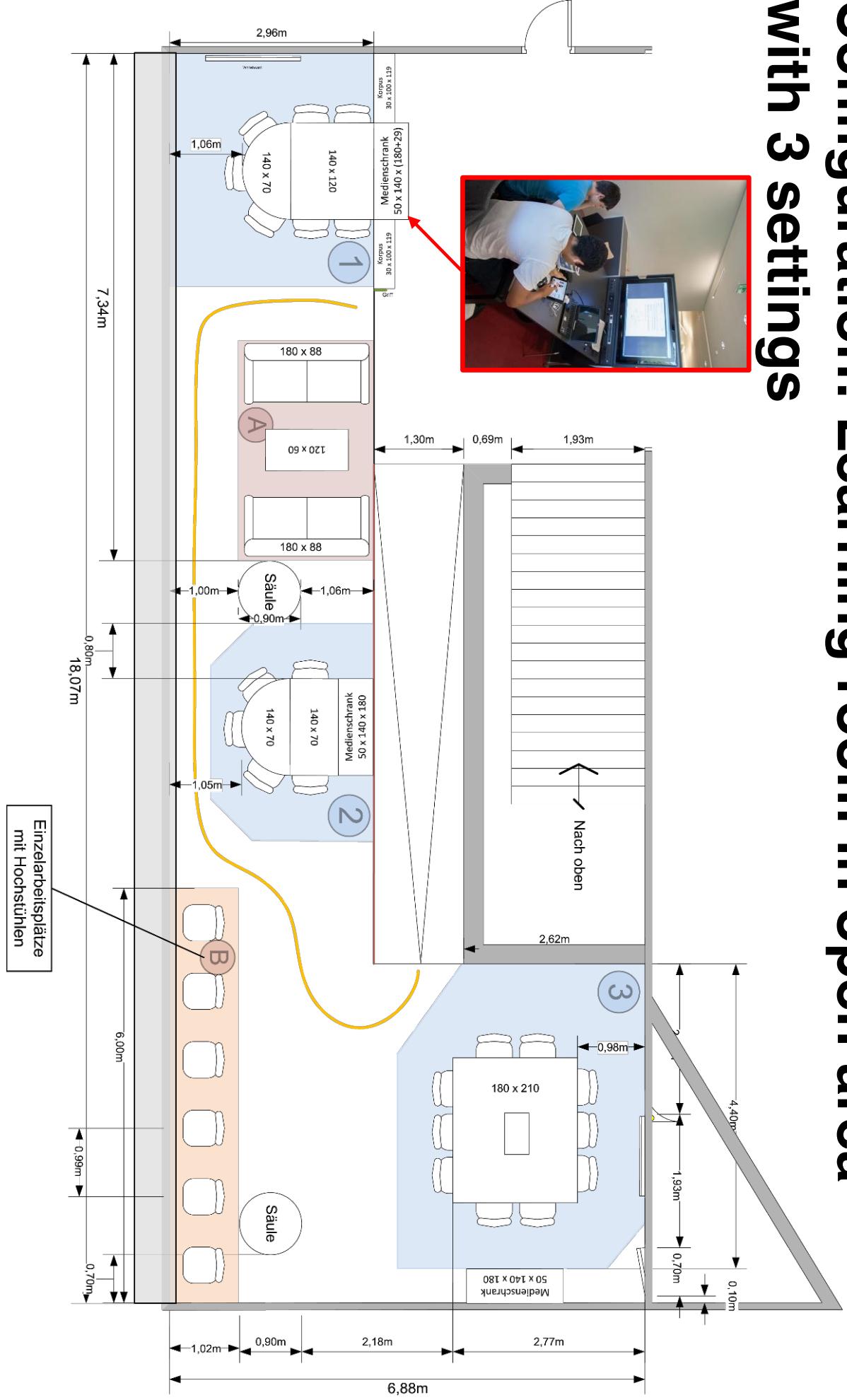
## Open Learning Setting

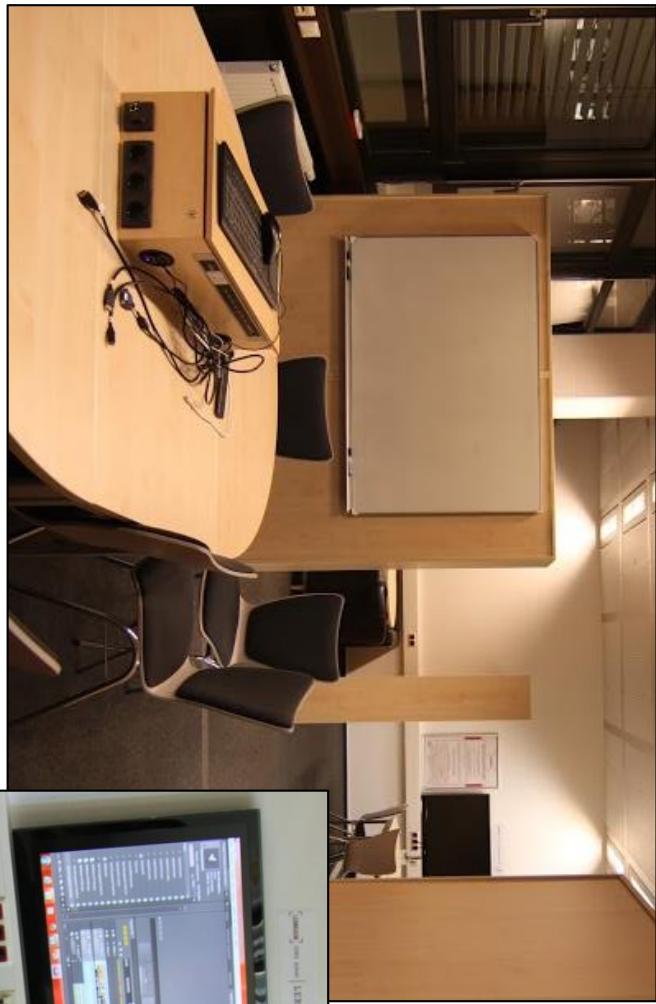
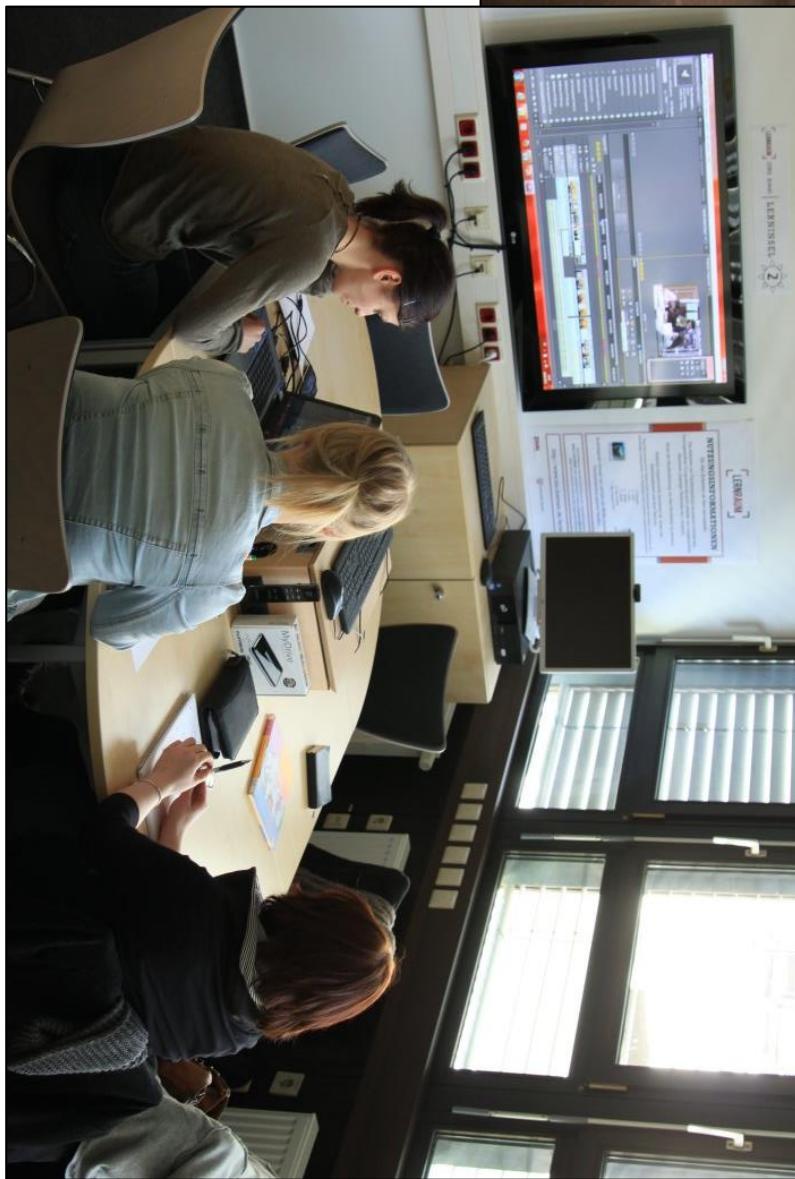


# Configuration: Two learning rooms with 2/3 settings



# Configuration: Learning room in open area with 3 settings





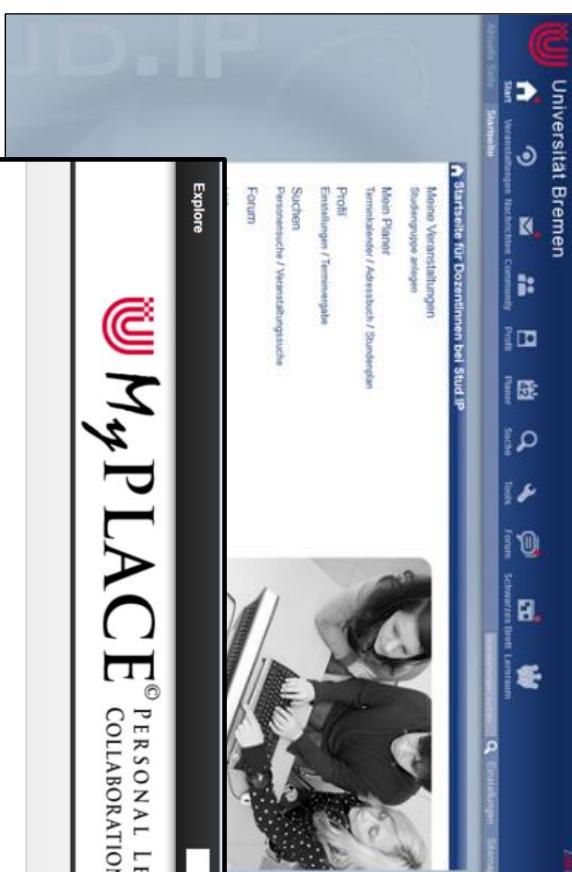
[www.uni-bremen.de/lernraum](http://www.uni-bremen.de/lernraum)

LERNRAUM

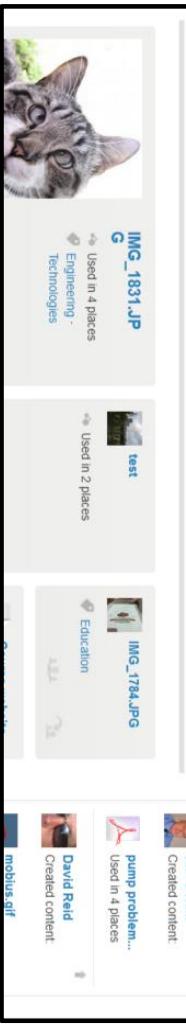
# VIRTUAL Learning and Working Rooms

## Using the LMS

- Students can create their own study groups
- Tools of LMS can be used (z.B. File-Upload, Calendar, Groupmembers, Communication, Forums)
- Web conference (Adobe Connect)
- Academic Networking and Collaboration (e.g. jointly create documents in realtime like google docs, share, comment, follow,...)




The image shows two screenshots of learning management system interfaces. The top screenshot is from Stud.IP, featuring a dark blue header with the university logo and various navigation icons. The bottom screenshot is from MyPLACE, showing a welcome message about embracing a new vision for academic collaboration, followed by a list of featured content items and a sidebar showing recent user activity.



# Booking, Searching, Rating

Aktuelle Seite: [Start](#) [Veranstaltungen](#) [Nachrichten](#) [Community](#) [Profil](#) [Pläner](#) [Suche](#) [Tools](#) [Forum](#) [Schwarzes Brett](#) [Lernraum](#)

<https://elearning.uni-bremen.de/plugins.php/lernraumplugin/show>

[ZMM](#) [GW2-Cafeteria](#) [Uni-Mensa](#) [PABO](#)

[Einstellungen](#) [Sitemap](#) [Impressum](#) [Hilfe](#) [Logout](#)

**Lernräume buchen**  
Buchen Sie Lernräume zum individuellen Lernen.

**Meine Buchungen**  
Erfahren Sie hier, welche Lernräume Sie gebucht haben.

**Freie Räume suchen**  
Suchen Sie Veranstaltungsräume, die gerade nicht belegt sind.

**Räume bewerten**  
Bewerten Sie die Situation von Lern-, Seminar- und Veranstaltungsräumen (Belegung, Ausstattung,...).

**Hinweise:**

! Beachten Sie, dass pro Person nur eine Buchung zur gleichen Zeit erlaubt ist. Die Buchungszeit muss zwischen 08:00 Uhr und 18:00 Uhr liegen. Eine Buchung kann nur für die kommenden zwei Wochen erfolgen. Wochenden können zur Zeit nicht gebucht werden.

**LERNRAUM**

# Booking, Searching, Rating

https://elearning.uni-bremen.de/plugins.php/lernraumplugin/show

buchen Belegung

## GW2 A3440 Lerninsel 2

Gruppenarbeitstisch im Raum GW2 A3440 mit multimedialer Ausstattung zur studentischen Gruppen-, Team- und Projektarbeit. Am Tisch steht ein Whiteboard, ein Rechner und ein Flachbildfernseher bereit auf dem auch mit eigenen Notebooks projiziert werden kann. Der Raum verfügt zur Förderung von Kreativität und sozialem Austausch über eine weitere Sitzzecke im Raum. (vom Eingang links am Fenster)

- Flachbildfernseher: ja
- Möblierung: Tischarbeitsplatz
- Notebookanschlüsse: ja
- Rechner: ja
- Schließzeit: 18
- Sitzplätze: 6
- Whiteboard: ja
- Öffnungszeit: 08

## Lernräume buchen

Buchen Sie Lernräume zum individuellen Lernen.

Heute

buchen



| Zeit  | Montag<br>10.12.12 | Dienstag<br>11.12.12 | Mittwoch<br>12.12.12 | Donnerstag<br>13.12.12 | Freitag<br>14.12.12 |
|-------|--------------------|----------------------|----------------------|------------------------|---------------------|
| 08:00 | 08:00 - 09:30      |                      | 08:30 - 10:30        |                        |                     |
| 09:00 |                    |                      |                      |                        |                     |
| 10:00 | 10:00 - 12:00      |                      | 10:30 - 12:30        | 10:00 - 12:00          | 10:00 - 12:00       |
| 11:00 |                    |                      |                      |                        |                     |
| 12:00 | 12:00 - 14:00      |                      | 12:30 - 14:30        | 12:00 - 14:00          | 12:00 - 12:30       |
| 13:00 |                    |                      |                      |                        |                     |
| 14:00 | 14:00 - 16:00      |                      | 14:30 - 16:30        | 14:00 - 16:00          | 14:00 - 16:00       |
| 15:00 |                    |                      |                      |                        |                     |
| 16:00 | 16:00 - 18:00      |                      | 16:30 - 18:00        | 16:00 - 18:00          | 16:00 - 17:00       |
| 17:00 |                    |                      |                      |                        |                     |
| 18:00 |                    |                      |                      |                        |                     |

RNRRAUM

Sie hier Ihre Lernräume.

**i**

Bei Fragen zu den Lernräumen sind Sie zufrieden mit

Weitere Informationen sind Ihnen sehr wichtig.

Buchen von Lernräumen

Geisteswissenschaften 2

buchen

aktualisieren

schließen X

# Learning Rooms The Film

[www.uni-bremen.de/lernraum](http://www.uni-bremen.de/lernraum)

# 1. Evaluation & Feedback (2013)

(98 fully completed questionnaires)

■ Approx. 12 (max. 24) bookings per day

■ Ø-Usage duration: 3h

■ Ø-group size: 5 Students

■ Positive:

- On-site observations show lively, yet study-related work
- No vandalism
- Feedback:
  - „Great Concept!“
  - „Atmosphere [...] supports productivity“
  - „[...] very helpful to practice presentations.“
  - „[...] the best places in the university to learn in a working group“
  - „[...] Too fast overbooked ... we need more learning rooms!“

■ Negative:

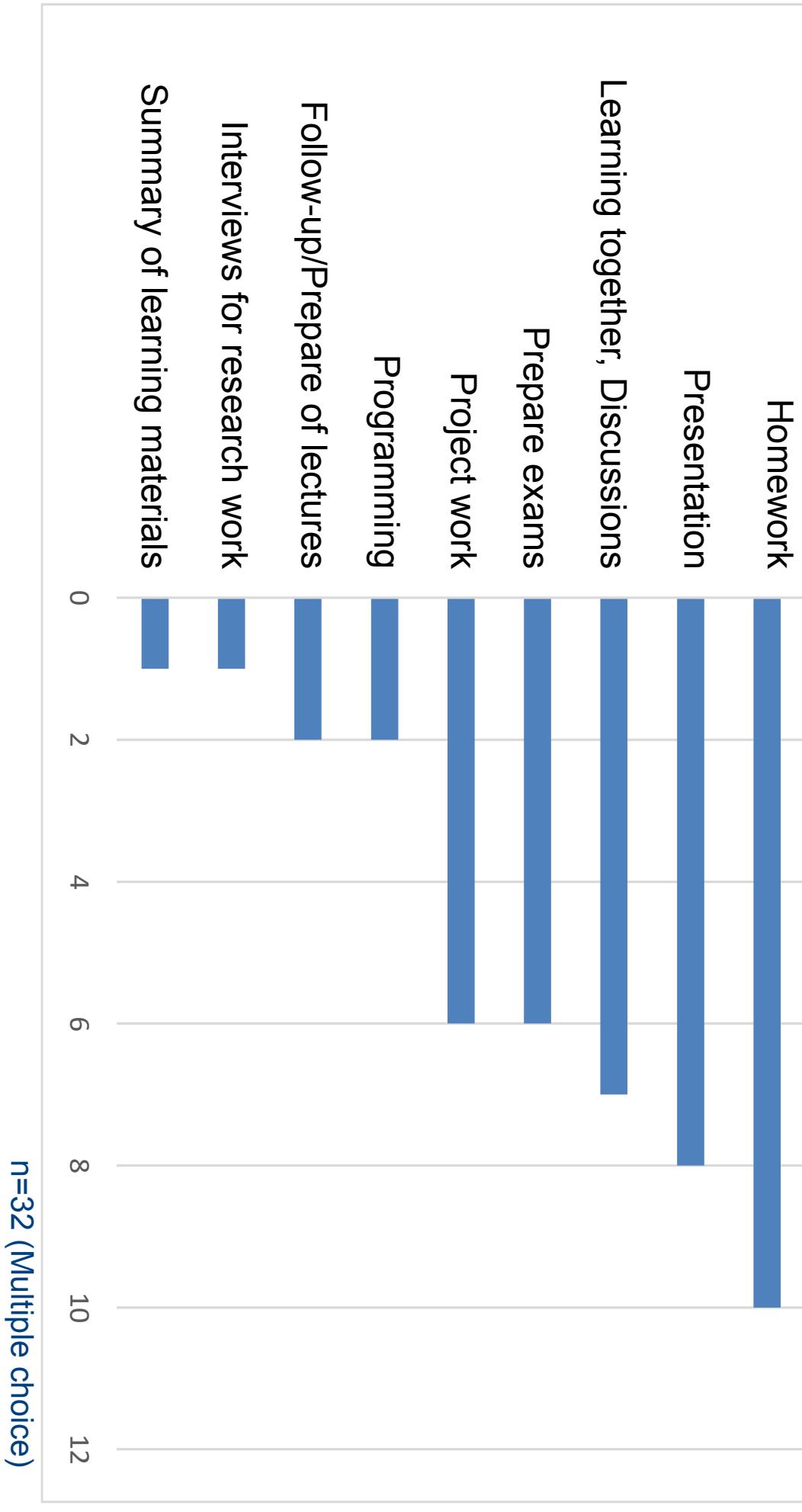
- Noisy in large learning groups
- Opening hours too short
- Booking not equal to usage

## 2. Evaluation (Questionnaire 2014)

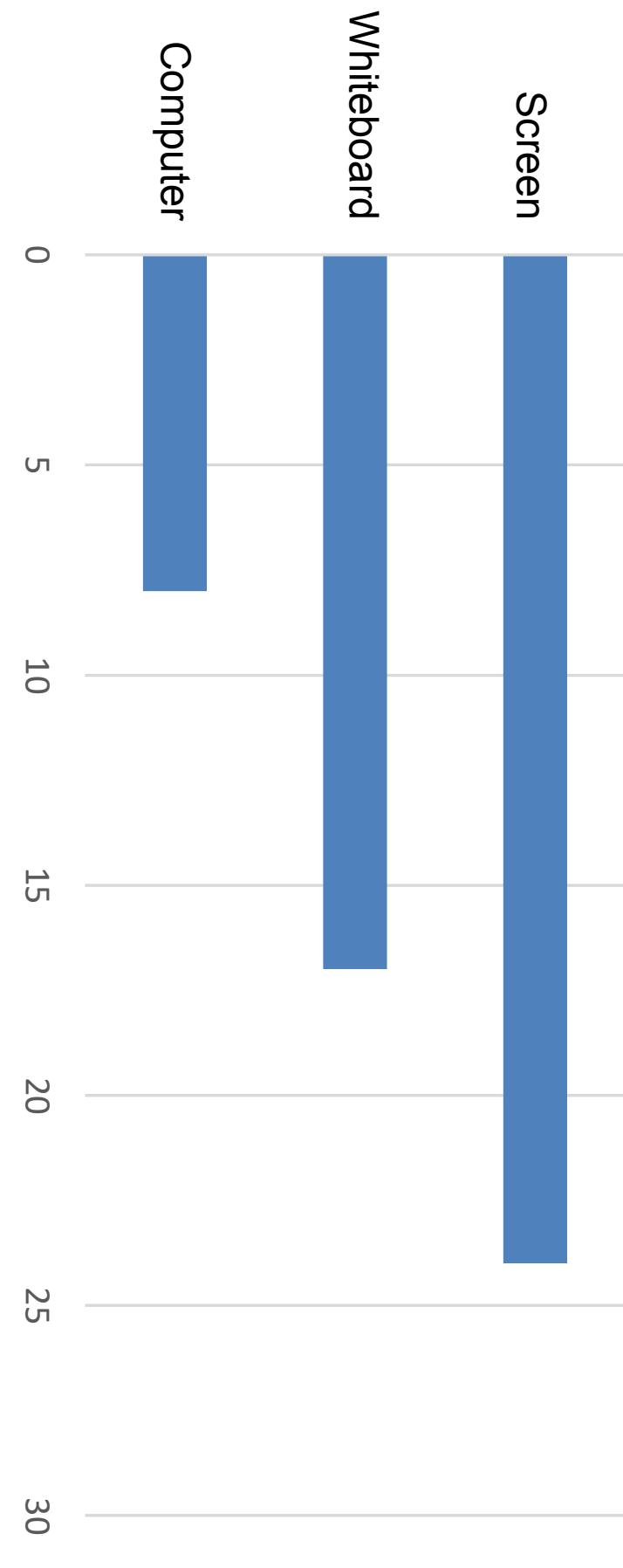
### ■ Questions:

- For which learning purposes do you use the learning rooms?
- Which of the available media/devices have you used?
- What media/devices did you bring with you?
- What I always wanted to say about the multimedia learning rooms:

# For which learning purposes do you use the learning rooms?

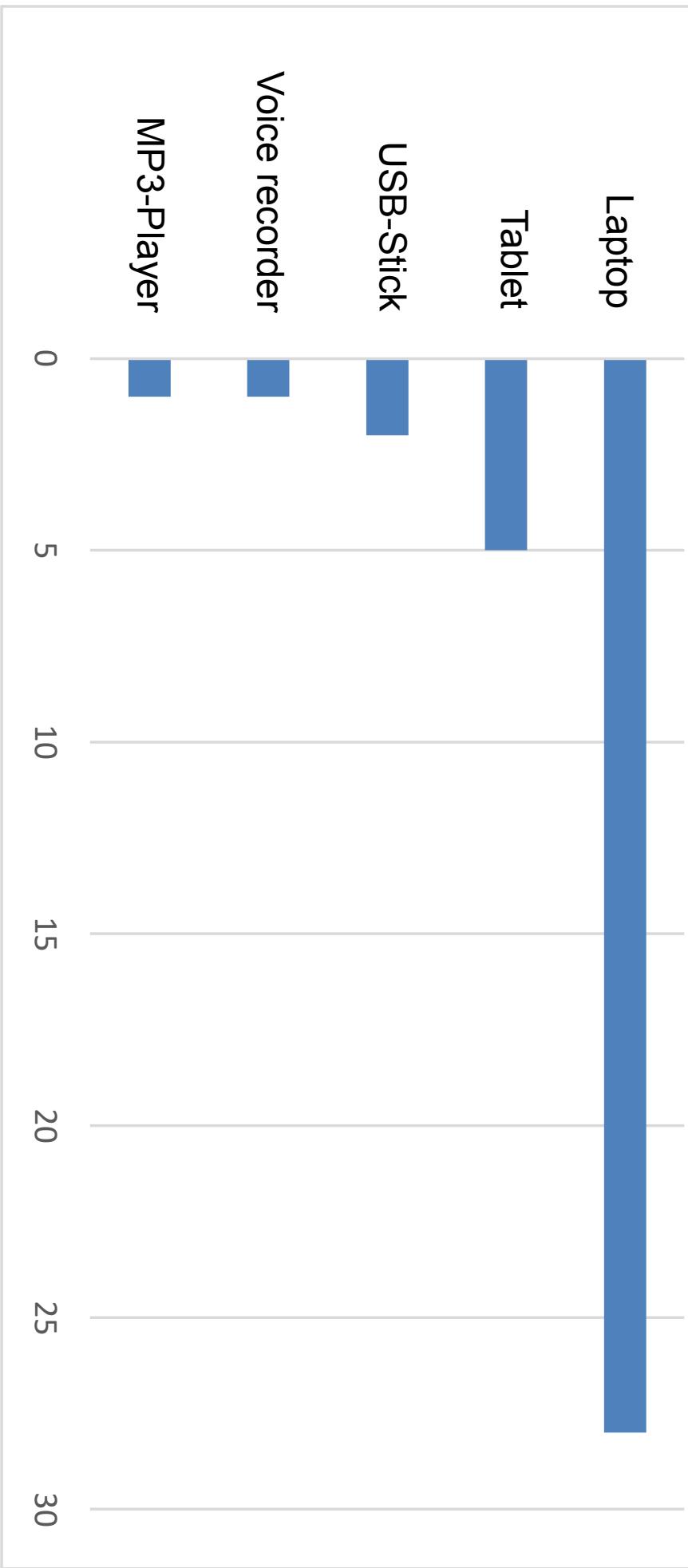


## Which of the available media/devices have you used?



n=32 (Multiple choice)

## What media/devices did you bring with you?



n=32 (Multiple choice)

# What I have always wanted to say about the multimedia learning rooms: (Summary)

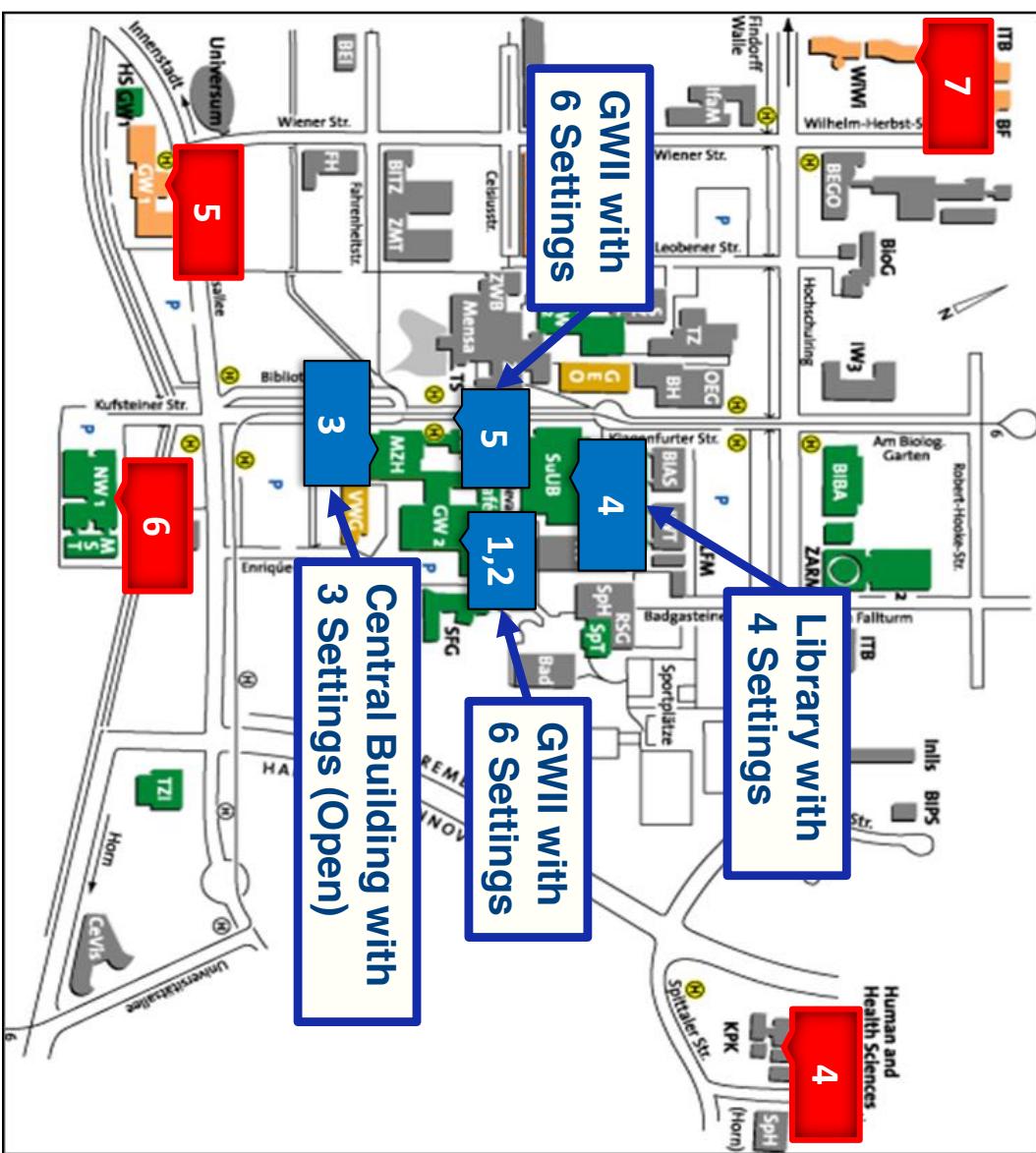
- Mostly positive feedback
- Frequent criticism: the rooms are often fully booked and there are too few them.
- Some criticism:
  - Opening hours (up to 18h),
  - Noise and
  - Booking not equal to usage

## ... (**Some statements of the students**)

- "Great deal! We did a student project for a 6 semester, so we had a place to meet and exchange. This is nowhere else possible in the form. Especially the large screen with many connections is helpful. "
- "Really a great idea. Top equipped!"
- "The multimedia learning rooms in the GW2 are very well equipped, which means that they are also often **fully booked**. It would be desirable if **more of such rooms** exists. "
- "Great environment, **unfortunately to few**"
- "Unfortunately the rooms **are often fully booked**..."
- "Very comfortable, just the right size, **unfortunately only open until 6 pm**, appearing spontaneously mostly works"
- "The possibility to work there is great! The diversity of choice is great (whiteboard, TV & PC) and indispensable for a learning room. Unfortunately, **the rooms are loud with many big groups**. Perhaps one can still optimize something in the acoustics of the rooms. "
- "Unfortunately the rooms (tables) are often booked in the system, **although nobody occupies them**. We usually book the last free work table in our room and experience every time that all other tables are not occupied. A procedure should be introduced (whether from StudIP / On place), by means of which a pseudo-booking can be avoided ... "

# Future Development

- Approx. 19.000 Students
- 4 Rooms with 19 Multimedia Settings
- More are in planning
- Coaching concept from Students for Students



# Thank you!

[www.uni-bremen.de/lernraum](http://www.uni-bremen.de/lernraum)

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