PORTAL Fakultät WIM

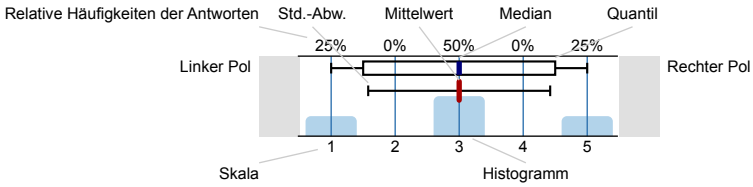
Data Mining 1 - Heiko Paulheim - Vorlesung (81)
Erfasste Fragebögen = 57

UNIVERSITÄT MANNHEIM
Fakultät für Wirtschaftsinformatik und Wirtschaftsmathematik

Auswertungsteil der geschlossenen Fragen

Legende

Fragetext

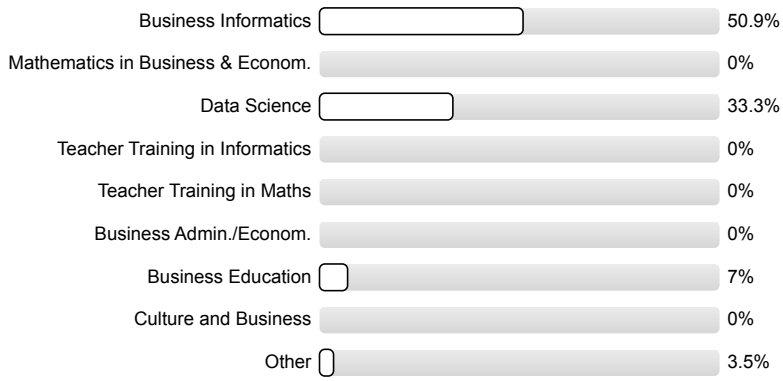


n=Anzahl
mw=Mittelwert
md=Median
s=Std.-Abw.
E.=Enthaltung

1. Personal Details

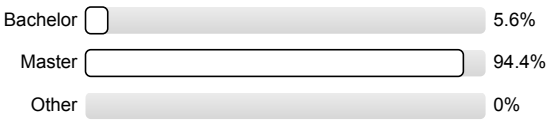
1.1) My program

n=57



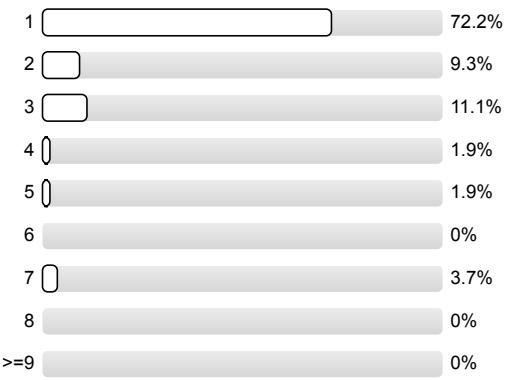
1.2) My anticipated degree

n=54



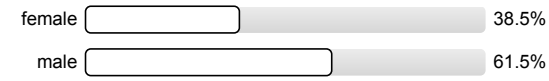
1.3) My semester

n=54



1.4) My Gender

n=52



1.5) I am an international exchange student

n=52

Yes	11.5%
No	88.5%

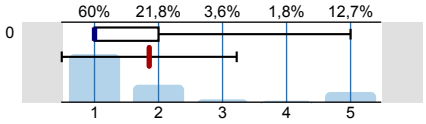
2. Details on your course attendance

2.1) I am taking this course

n=55

for the first time	100%
again, after already taking this course previously	0%

2.2) How regularly did you attend this lecture course – how often were you absent from class?



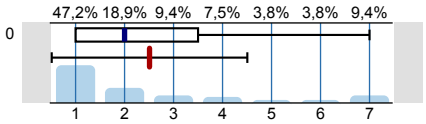
n=55
mw=1,9
md=1
s=1,4

2.3) **If you missed more than three classes,** what were the reasons for your absence? (Multiple answers are possible)

n=57

There were scheduling conflicst with other courses	1.8%
Lack of time	3.5%
Other reasons	5.3%

2.4) **How regularly did you attend the tutorial for this lecture course - – how often were you absent from the tutorial?** Please leave blank if no accompanying lecture was offered.



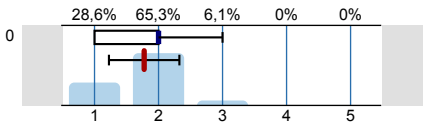
n=53
mw=2,5
md=2
s=2

2.5) 1. **If you missed more than three classes,** what was the main reason for your absences? (Multiple answers are possible)

n=57

There were scheduling conflicts with other courses	5.3%
I did not need any course credit	0%
The lecture was sufficient for me to understand the material	8.8%
Lack of time	14%

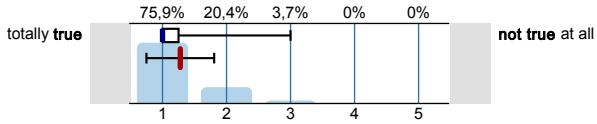
2.6) 1. **How often was there a substitute teacher?**



n=49
mw=1,8
md=2
s=0,6

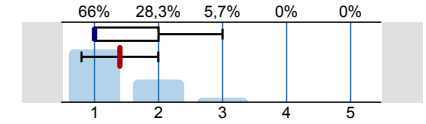
3. Evaluation of the course

3.1) The instructor explained the **educational goals** of the course



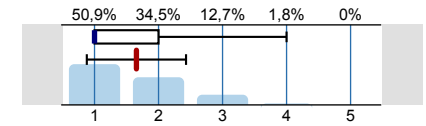
n=54
mw=1,3
md=1
s=0,5

3.2) A **common theme** could be perceived in the course.



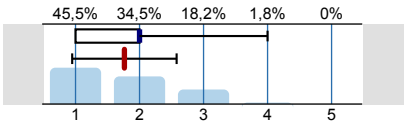
n=53
mw=1,4
md=1
s=0,6

3.3) The course was **well organized**



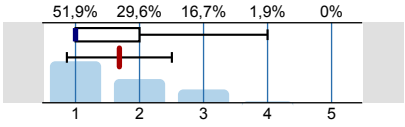
n=55
mw=1,7
md=1
s=0,8

3.4) The **structure of the lecture** helped me understand the subject matter



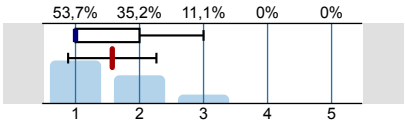
n=55
mw=1,8
md=2
s=0,8

3.5) The **pace** of the course was appropriate



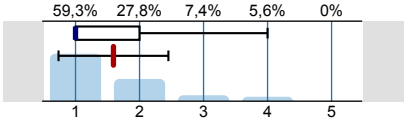
n=54
mw=1,7
md=1
s=0,8

3.6) The lectures were **clear and comprehendible**



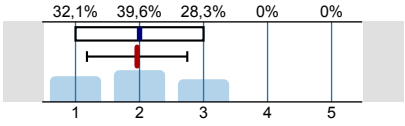
n=54
mw=1,6
md=1
s=0,7

3.7) The course content was illustrated through the use of **examples**



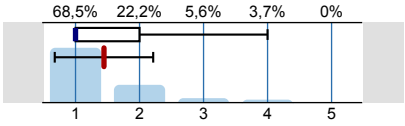
n=54
mw=1,6
md=1
s=0,9

3.8) **Summaries and repetition** helped me to remember the subject matter



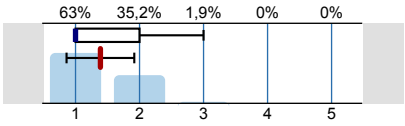
n=53
mw=2
md=2
s=0,8

3.9) There were opportunities to ask **questions**



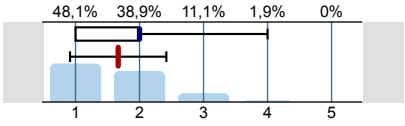
n=54
mw=1,4
md=1
s=0,8

3.10) The instructor made an effort to **answer questions precisely**



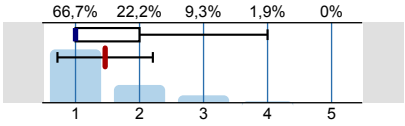
n=54
mw=1,4
md=1
s=0,5

3.11) The instructor tried to make sure students **understood** the **explanations**



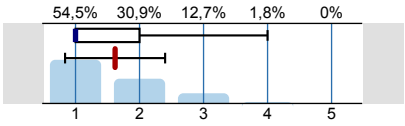
n=54
mw=1,7
md=2
s=0,8

3.12) Information on the **board/screen** was **legible**



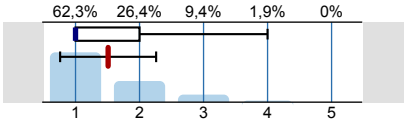
n=54
mw=1,5
md=1
s=0,7

3.13) Information on the **board/screen increased my understanding** of the subject matter



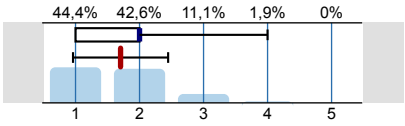
n=55
mw=1,6
md=1
s=0,8

3.14) The use of **classroom technology** (not including overhead/board) was helpful



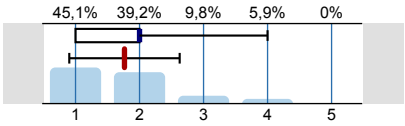
n=53
mw=1,5
md=1
s=0,7

3.15) **Additional documents** and **downloads** (i.e. copies, scripts, recordings) were **helpful** learning tools



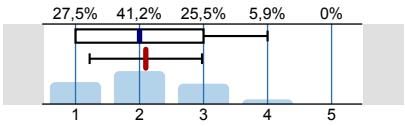
n=54
mw=1,7
md=2
s=0,7

3.16) The **recommended literature** was **available**



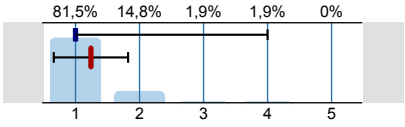
n=51
mw=1,8
md=2
s=0,9

3.17) The **recommended literature helped** my learning process



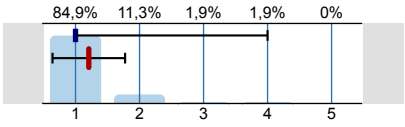
n=51
mw=2,1
md=2
s=0,9

3.18) The instructor's **diction/manner of speaking** was **clear**



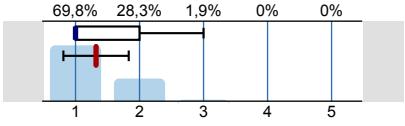
n=54
mw=1,2
md=1
s=0,6

3.19) The instructor always seemed to be **well prepared**



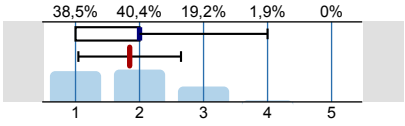
n=53
mw=1,2
md=1
s=0,6

3.20) I had the impression that the instructor **truly enjoyed teaching**



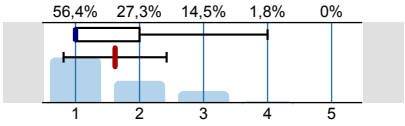
n=53
mw=1,3
md=1
s=0,5

3.21) The **instructor** was **willing** to tailor lessons to students' academic interests



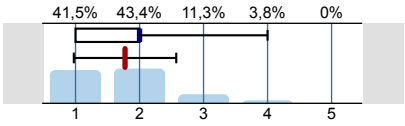
n=52
mw=1,8
md=2
s=0,8

3.22) The lecture **fostered my interest** in the course content



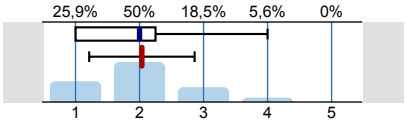
n=55
mw=1,6
md=1
s=0,8

3.23) The **connection to other courses** was demonstrated



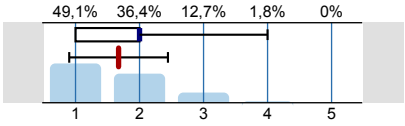
n=53
mw=1,8
md=2
s=0,8

3.24) The course topic was **well integrated with other courses**



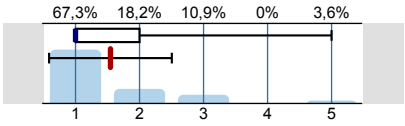
n=54
mw=2
md=2
s=0,8

3.25) The **relevance** of the course **to educational goals** was made clear



n=55
mw=1,7
md=2
s=0,8

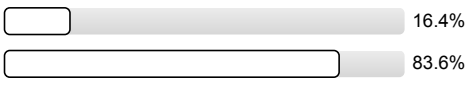
3.26) I feel that the course content was **important for my future career**



n=55
mw=1,5
md=1
s=1

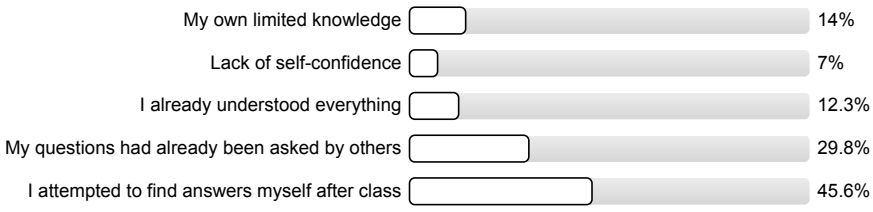
4. Evaluation of your own participation

4.1) **I asked questions during class**



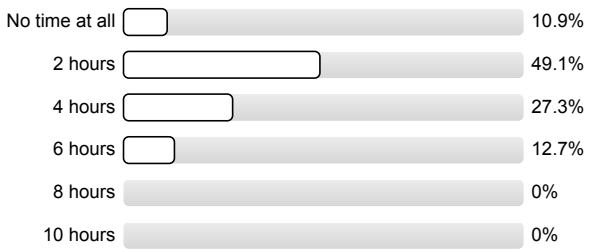
n=55

4.2) **If not, why not?** (Multiple answers are possible)



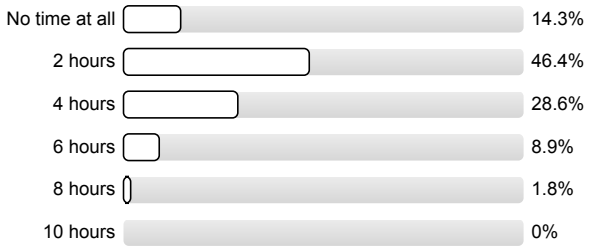
n=57

4.3) What was the average **weekly amount of time you spent preparing for and reviewing after the lecture course** (not including class time, time in the discussion group/tutorial, or time devoted to completing worksheets)?



n=55

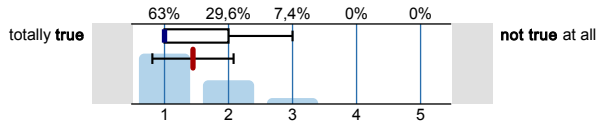
4.4) What was the average **weekly amount of time you spent completing worksheets** (not including class time and time in the discussion group/tutorial)?



n=56
mw=2,4
s=0,9

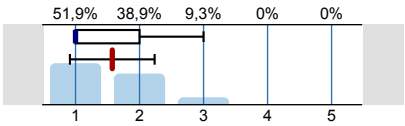
5. Overall evaluation of the course

5.1) The lecture course **increased my subject matter knowledge**



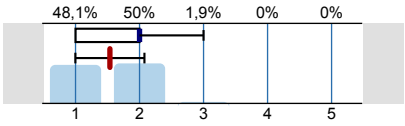
n=54
mw=1,4
md=1
s=0,6

5.2) I **enjoyed attending** the lecture course



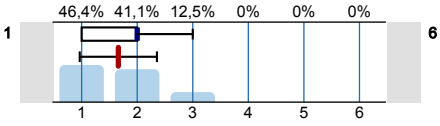
n=54
mw=1,6
md=1
s=0,7

5.3) I **understood** the course content



n=54
mw=1,5
md=2
s=0,5

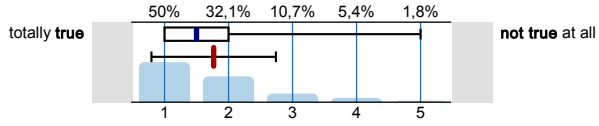
5.4) I would rate the lecture course **on a scale** of 1 (very good) to 6 (very poor):



n=56
mw=1,7
md=2
s=0,7

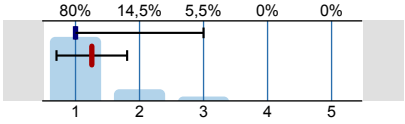
6. Evaluation of the classroom conditions and prerequisities

6.1) My **previous knowledge** was sufficient for mastering the course content



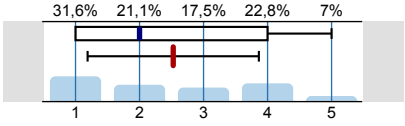
n=56
mw=1,8
md=1,5
s=1

6.2) The **technical equipment** (overhead, board, projector, microphone) was ready for use when necessary



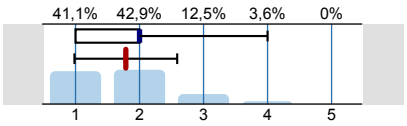
n=55
mw=1,3
md=1
s=0,6

6.3) The **size of the room** was appropriate for the course



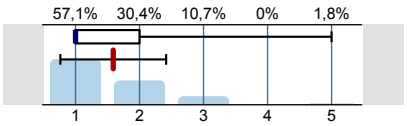
n=57
mw=2,5
md=2
s=1,3

6.4) The **level of background noise** in the classroom was tolerable



n=56
mw=1,8
md=2
s=0,8

6.5) The **room fixtures** (chairs, tables, ventilation, light, etc.) were good



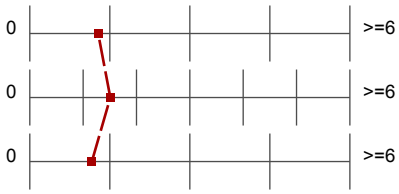
n=56
mw=1,6
md=1
s=0,8

Profillinie

Teilbereich: Fakultät WIM
Name der/des Lehrenden: PORTAL Fakultät WIM
Titel der Lehrveranstaltung: (Name der Umfrage) Data Mining 1 - Heiko Paulheim - Vorlesung

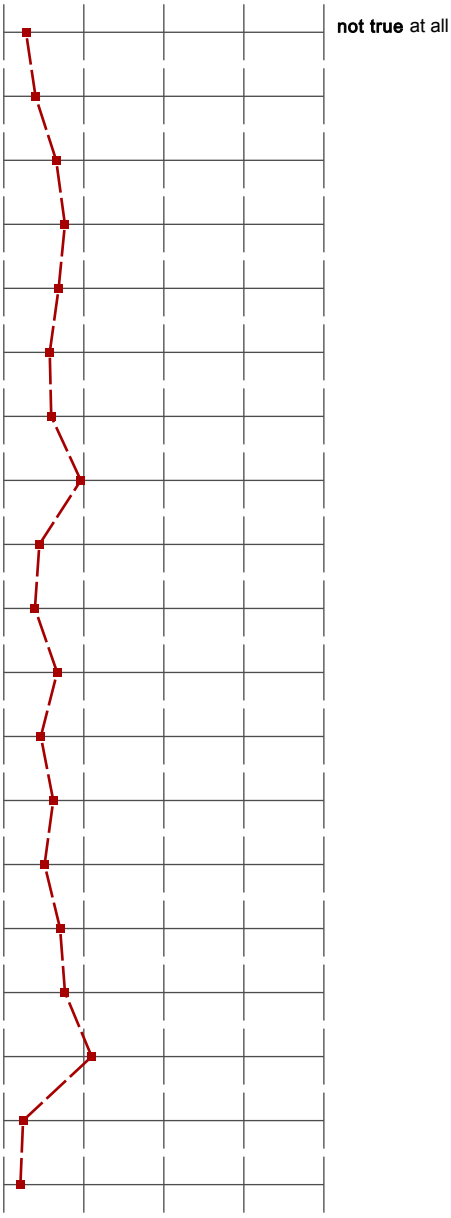
Verwendete Werte in der Profillinie: Mittelwert

2. Details on your course attendance

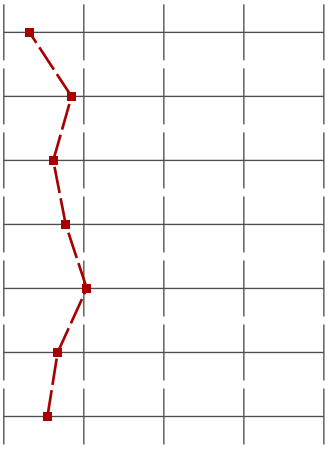


2.2)	How regularly did you attend this lecture course – how often were you absent from class?	n=55	mw=1,9 md=1,0 s=1,4
2.4)	**How regularly did you attend the tutorial for this lecture course - – how often were you absent from the tutorial?** Please leave blank if	n=53	mw=2,5 md=2,0 s=2,0
2.6)	1. **How often was there a substitute teacher?**	n=49	mw=1,8 md=2,0 s=0,6

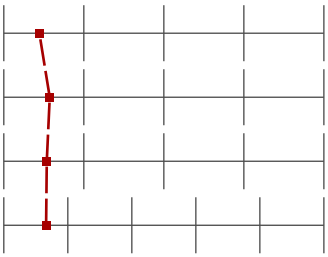
3. Evaluation of the course



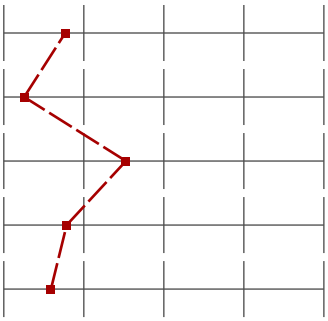
3.1)	The instructor explained the **educational goals** of the course	n=54	mw=1,3 md=1,0 s=0,5
3.2)	A **common theme** could be perceived in the course.	n=53	mw=1,4 md=1,0 s=0,6
3.3)	The course was **well organized**	n=55	mw=1,7 md=1,0 s=0,8
3.4)	The **structure of the lecture** helped me understand the subject matter	n=55	mw=1,8 md=2,0 s=0,8
3.5)	The **pace** of the course was appropriate	n=54	mw=1,7 md=1,0 s=0,8
3.6)	The lectures were **clear and comprehendible**	n=54	mw=1,6 md=1,0 s=0,7
3.7)	The course content was illustrated through the use of **examples**	n=54	mw=1,6 md=1,0 s=0,9
3.8)	**Summaries and repetition** helped me to remember the subject matter	n=53	mw=2,0 md=2,0 s=0,8
3.9)	There were opportunities to ask **questions**	n=54	mw=1,4 md=1,0 s=0,8
3.10)	The instructor made an effort to **answer questions precisely**	n=54	mw=1,4 md=1,0 s=0,5
3.11)	The instructor tried to make sure students **understood** the **explanations**	n=54	mw=1,7 md=2,0 s=0,8
3.12)	Information on the **board/screen** was **legible**	n=54	mw=1,5 md=1,0 s=0,7
3.13)	Information on the **board/screen increased my understanding** of the subject matter	n=55	mw=1,6 md=1,0 s=0,8
3.14)	The use of **classroom technology** (not including overhead/board) was helpful	n=53	mw=1,5 md=1,0 s=0,7
3.15)	**Additional documents** and **downloads** (i.e. copies, scripts, recordings) were **helpful** learning tools	n=54	mw=1,7 md=2,0 s=0,7
3.16)	The **recommended literature** was **available**	n=51	mw=1,8 md=2,0 s=0,9
3.17)	The **recommended literature helped** my learning process	n=51	mw=2,1 md=2,0 s=0,9
3.18)	The instructor's **diction/manner of speaking** was **clear**	n=54	mw=1,2 md=1,0 s=0,6
3.19)	The instructor always seemed to be **well prepared**	n=53	mw=1,2 md=1,0 s=0,6

3.20)	I had the impression that the instructor **truly enjoyed teaching**		n=53 mw=1,3 md=1,0 s=0,5
3.21)	The **instructor** was **willing** to tailor lessons to students' academic interests		n=52 mw=1,8 md=2,0 s=0,8
3.22)	The lecture **fostered my interest** in the course content		n=55 mw=1,6 md=1,0 s=0,8
3.23)	The **connection to other courses** was demonstrated		n=53 mw=1,8 md=2,0 s=0,8
3.24)	The course topic was **well integrated with other courses**		n=54 mw=2,0 md=2,0 s=0,8
3.25)	The **relevance** of the course **to educational goals** was made clear		n=55 mw=1,7 md=2,0 s=0,8
3.26)	I feel that the course content was **important for my future career**		n=55 mw=1,5 md=1,0 s=1,0

5. Overall evaluation of the course

5.1)	The lecture course **increased my subject matter knowledge**	totally **true**  **not true** at all	n=54 mw=1,4 md=1,0 s=0,6
5.2)	I **enjoyed attending** the lecture course		n=54 mw=1,6 md=1,0 s=0,7
5.3)	I **understood** the course content		n=54 mw=1,5 md=2,0 s=0,5
5.4)	I would rate the lecture course **on a scale** of 1 (very good) to 6 (very poor):	**1** **6**	n=56 mw=1,7 md=2,0 s=0,7

6. Evaluation of the classroom conditions and prerequisities

6.1)	My **previous knowledge** was sufficient for mastering the course content	totally **true**  **not true** at all	n=56 mw=1,8 md=1,5 s=1,0
6.2)	The **technical equipment** (overhead, board, projector, microphone) was ready for use when necessary		n=55 mw=1,3 md=1,0 s=0,6
6.3)	The **size of the room** was appropriate for the course		n=57 mw=2,5 md=2,0 s=1,3
6.4)	The **level of background noise** in the classroom was tolerable		n=56 mw=1,8 md=2,0 s=0,8
6.5)	The **room fixtures** (chairs, tables, ventilation, light, etc.) were good		n=56 mw=1,6 md=1,0 s=0,8

Auswertungsteil der offenen Fragen

7. Your suggestions

7.1) In **question 5.4**, you rated the discussion group/tutorial. What was the the **main reason** for your score?

A bit more in-depth (math) would be cool.
Group project taught much & was good for learning

Overall good lecture to get an overview. Sometimes superficial.

clear structure
good examples
understandable

This course focus both theory and application.
This quite useful for understanding.

The practical part in the tutorial supported well my understandings

Nice teaching -> many possible options in tutorial !

overall summary,

What I have learned -
teaching equality -

It's nice! I can ~~test~~ really learn something from the course.

His English is quite good and I had learned a lot and I was able to understand what he is trying to say.

Tutorial was overpopulated (python)

Group project interesting, but very (?) unclear expectations
(2) bad timing (why not present/board in two weeks earlier rather than 1 week before exams?)

Lecture is well organized but too high level with mostly superficial coverage of topics.

Comprehensive presentation of topics

I like this course

Course and lecturer seemed well prepared, contents were explained well.

- good lecture, more details would be even better

Well organized course

- interesting topic
- good presentation

understandable explanations, good examples

- Structure
- Practical project

understanding in deepth knowledge of data mining.

7.2) What did you **like most** during the course?

content, examples

good overview

Python exercises

Practical examples

The given examples

Team Project. freely choose dataset and problem and method to figure things out.

The part of the team project

Two exercises

The teacher explains very well.

The professor's teaching style with real-life examples and a lot of motivation.

professor and tutors

The content is interesting!

Having no class after the first half of the class and there were other evaluation factor such as group work which helped me to understand the topic better

Heiko's lecture style

Applicability of content

The topics covered in tutorial and project increased by knowledge of data mining and python significantly.

It was very well organized.

The opportunity for hands-on experience with Python on real Data Mining Project.

the lectures - they were very understandable and clear

interesting lessons
amusement
way of teaching

the opportunity to ask questions

I really like the content and the lecturer.

- working with rapid miner

-Project work
-Python tutorial

& Vice way of presenting the content

prompt exercise class. and Presentation

7.3) What did you **not** like during the corse?

Rapid miner

Sometimes slides do not focus on the actual subject matter

The tutorial was ok but it would be helpful to have a introduction in python itself

The introduction of 'python' could be more. For now, it just like directly jumping from '0' to '100'.

The sheets weren't available before the sessions.

Slides not in Glias => Two access points for material ...

Some topics were discussed more on the superficial level whereas others were really detailled.

~~No~~

~~No~~ No

Tutorial

Lack of mathematically rigorous content

The room was way too small

Scheduling of Project

No in depth coverage, too many topics covered.

Some of the slides are not well referenced, therefore I was having hard time finding the readings associated with lecture slides.

fe// nearest centroid classifier

Page limitation with references: 10 pages. References should be excluded for project

Group project – 3 days for topic choice...
- Should be earlier – # in November students need the time to learn...

For the lecture of Classification I, I could not find literature about the comparison of Nearest Centroid and KNN.
We needed to do a lot of Feature Selection & Preprocessing in the Team project, which was not discussed in the course

Way too many slides per lecture

Project presentation too close to exams.

to much information / slides for one lecture

While learning I was sth. confused, because I didn't get the red line -> maybe more Headlines in the slides (with Nr.)

- that the tasks for the ~~tutorium~~ exercise were so late available

- project
- not enough time for project and report

Not so much

7.4) What are your **suggestions** for improvement?

Add more practical examples, lecture depth may can be reduced.

A bit more math would be nice (backpropagation etc.)
No more rapidminer

Please structure the slides better (e.g. clear sections, subsections)

Cover topics in more detail (decrease width, increase depth)

Further expand on when to use which approach / how to develop a gut feeling for the right algorithm

7.3

Python tutorial could explain more basic structure of language combining with model.

see 7.3

Put all material on ilias!
Give some more hints for exam

Offer more Python tutorials at the schedule clashes with other courses.

maybe not that much slides

The tutorial could be a little bit [redacted] less of a repetition of the lecture.

Maybe more ~~additional sheet~~ exercises could be provided for the exam I do not know what to expect from the exam.

Room Space

Scheduling of Project - no reason to not ~~start~~/complete it two weeks earlier. Students will have to go beyond lecture mostly

Focus on fewer topics and build up learning from basic principles.

Introduction slides for project should be uploaded earlier.

I would have really appreciated a short introduction into Python as a language, e.g. 1-2 sessions about its syntax & data structures.

Could provide more details (deep dive)

Peer Evaluation for the Group Project

- please upload slides / tasks earlier
- explain more in the exercise instead giving endless working time

more focus on theoretical models would be nice

-report should be due ~~down~~ after exams

assignment, and presentation.