



Vizerektorat Lehre, iLUB, Hochschulstrasse 6, 3012 Bern

Persönlich/Vertraulich
Prof. Dr. Oscar Nierstrasz
Institut für Informatik und angewandte Mathematik
Neubrückstr. 10
3012 Bern

^b
**UNIVERSITÄT
BERN**

Vizerektorat Lehre

Lehrveranstaltungsevaluation

Report of evaluation: HS18 Software Modeling and Analysis (422739)

Dear Mr./Mrs. Prof. Dr. Nierstrasz

Please find here the results of the evaluation of your course "Software Modeling and Analysis". Following the scanning of the questionnaires, this report was automatically generated and mailed to you.

The questionnaire used was appropriate to the course type Vorlesung. In the report, you first see the mean values of the most important dimensions:

- Conveying the course content
- Course materials to assist Learning
- Commitment of the lecturer
- Complexity and Scope
- Assessment of Individual Lectures

In the second part of the report, you see the answers to all the questions. The number of answers, the mean value and the values differing from it are also given.

Grade 1 on the left hand side equals the lowest grade given by the students, grade 5 or more on the right hand side the highest grade. In 'complexity and scope' grade 3 corresponds to 'exactly right' and is therefore the best grade. In the overall assessment of the course, grade 6 means the best result.

The free comments at the end of the questionnaire are only read by the lecturer him/herself and won't be evaluated statistically. Please don't pay much attention to negative statements of single persons. You are to look closely in case of frequent occurrence of similar comments.

Please briefly discuss the results with your students before the end of the semester. You will find a presentation template on the last pages of the report. By giving serious consideration to the feedback of the students, you can contribute to higher future response rate.

In case you wish to learn more about how to improve your teaching, you might want to discuss the results with the staff of the 'Hochschuldidaktik' (mail address: hd@zuw.unibe.ch). Please bring a copy of the report with you, since the staff of Hochschuldidaktik do not have access to evaluation results.

You might find guidelines, regulations, and information about the process under www.lehrveranstaltungsevaluation.unibe.ch (documents in German).

Should you need more information, you may also contact us by e-mail.

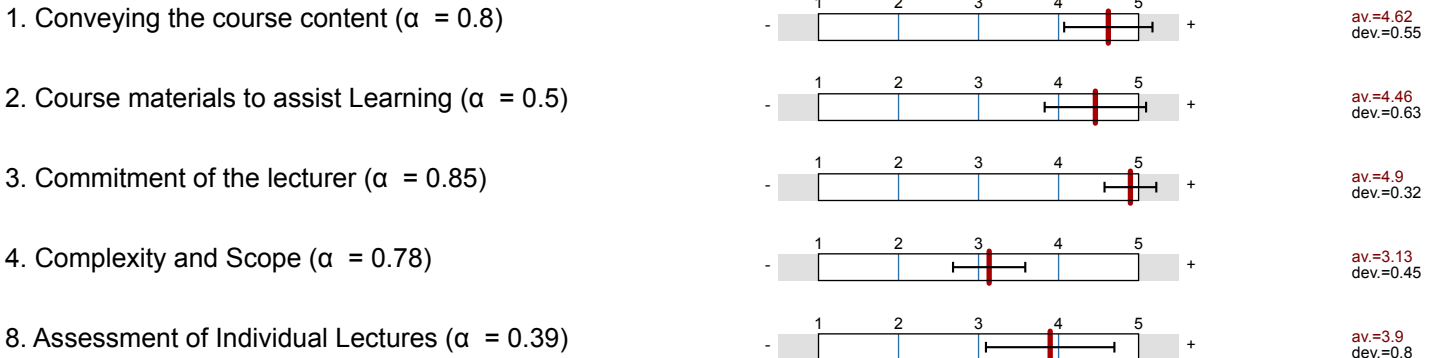
Yours sincerely

D. Wuillemin
Evaluation office
Vice-rectorate of teaching

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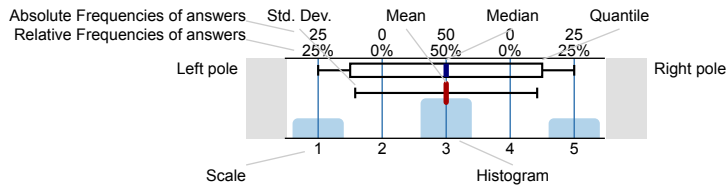
Overall indicators



Survey Results

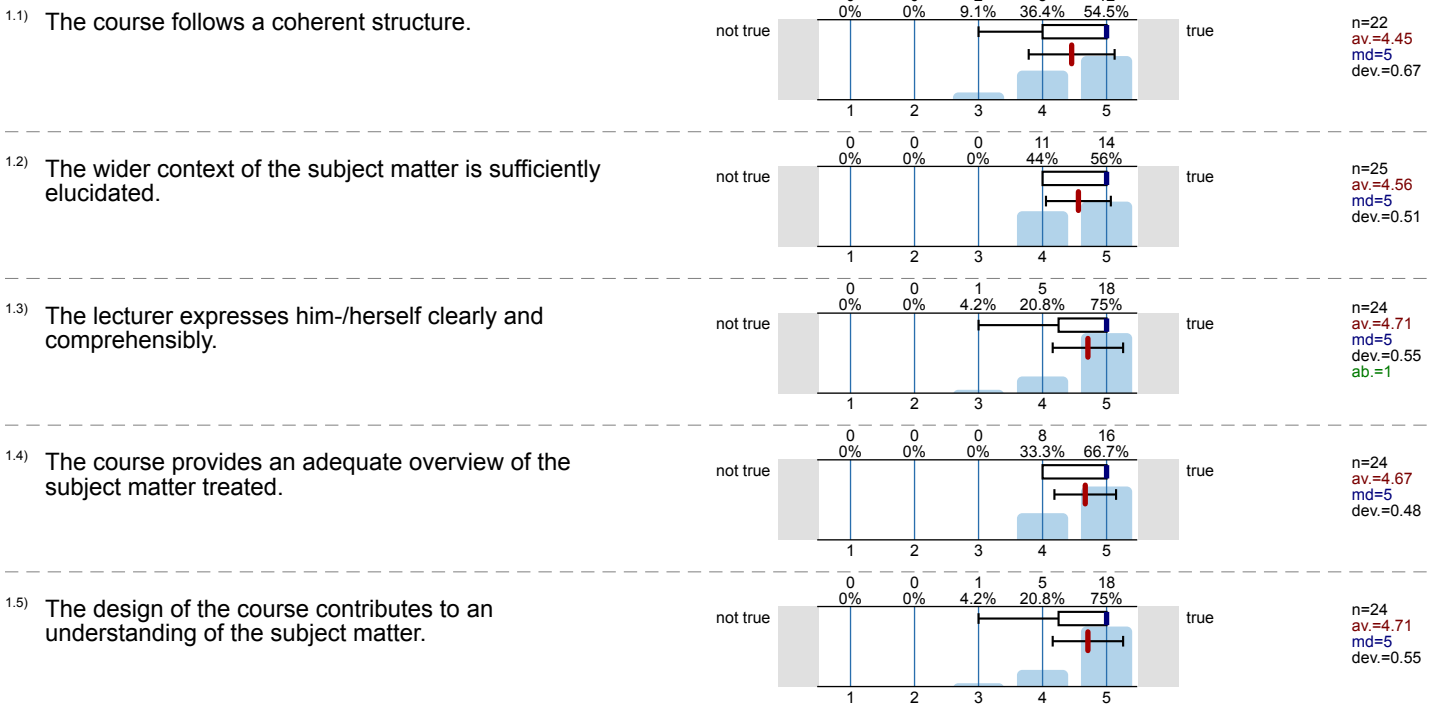
Legend

Question text



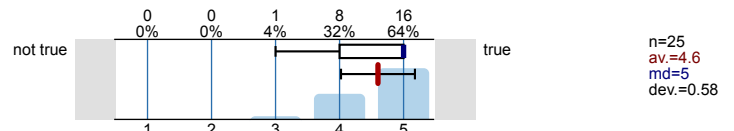
n=No. of responses
 av.=Mean
 md=Median
 dev.=Std. Dev.
 ab.=Abstention

1. Conveying the course content

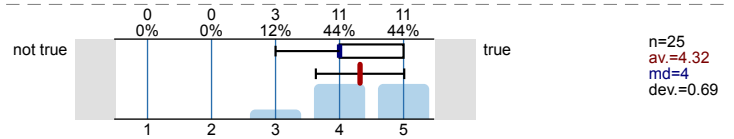


2. Course materials to assist Learning

2.1) There is overall enough material provided to assist the learning process (slides, course material, hand-outs, etc.).

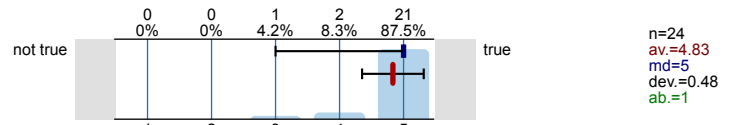


2.2) The course materials (slides, course manuals, hand-outs, etc.) are overall of sufficient quality.

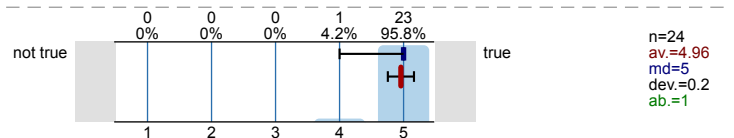


3. Commitment of the lecturer

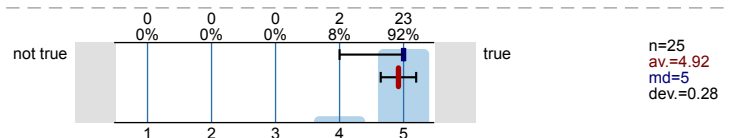
3.1) The lecturer takes students seriously.



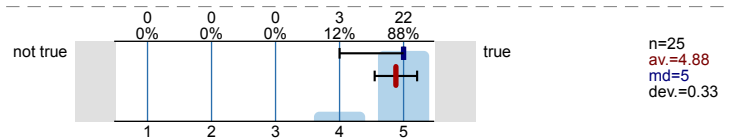
3.2) The lecturer is friendly and respectful towards students.



3.3) The lecturer addresses questions and suggestions from students adequately.

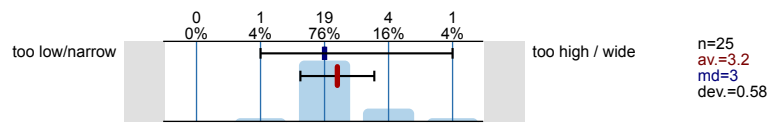


3.4) The lecturer seems to care about his/her students' learning progress.

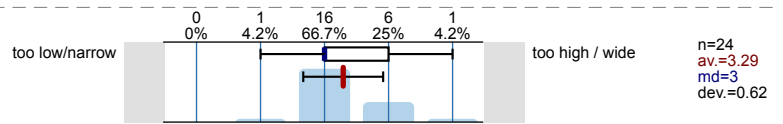


4. Complexity and Scope

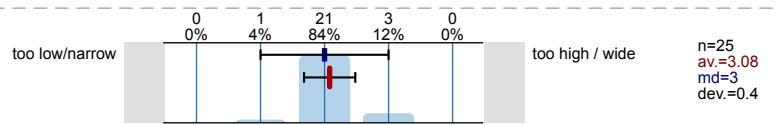
4.1) The degree of difficulty of the course is:



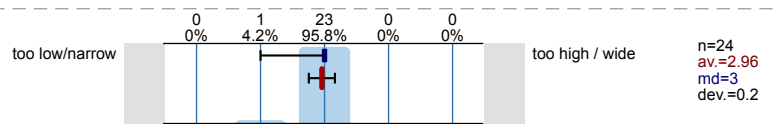
4.2) The amount of content of the course is:



4.3) The pace of the course is:

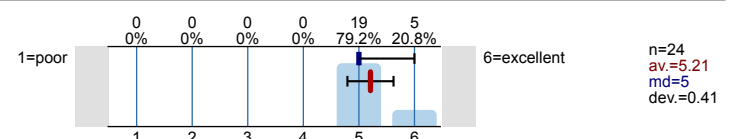


4.4) The amount of knowledge presupposed by the course is:

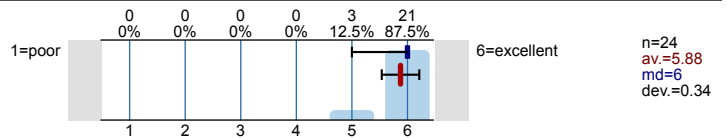


5. Overall Assessment

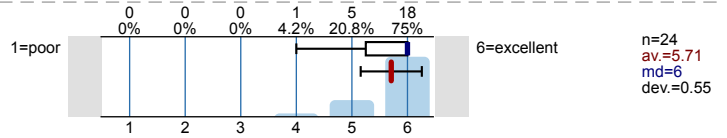
5.1) How would you grade the course as a whole?



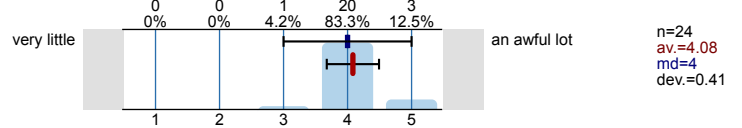
5.2) How would you grade the lecturer with regard to subject expertise?



5.3) How would you grade the lecturer with regard to teaching methods?

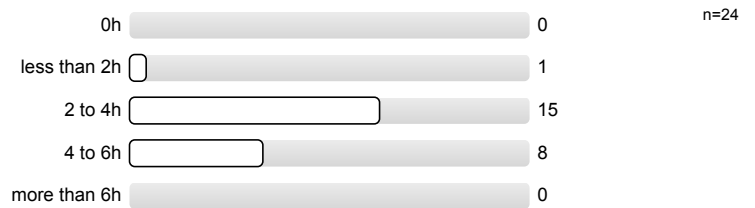


5.4) The course has taught me:

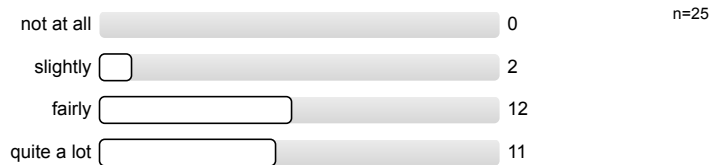


6. Socio-demographic Data and Background Variables

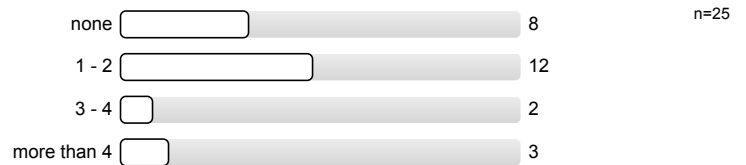
6.1) How many hours per week did you invest in preparation and revision for the course (on average)?



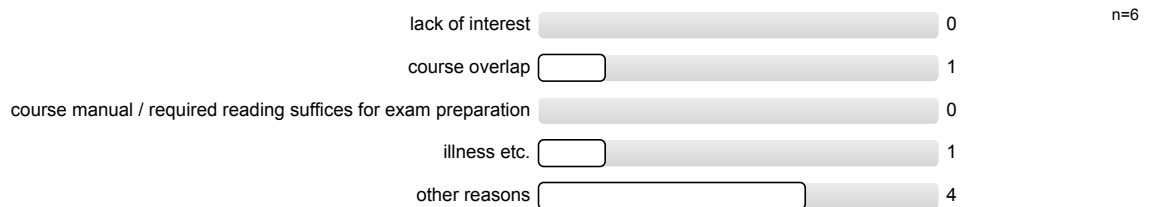
6.2) Was the topic of interest to you?



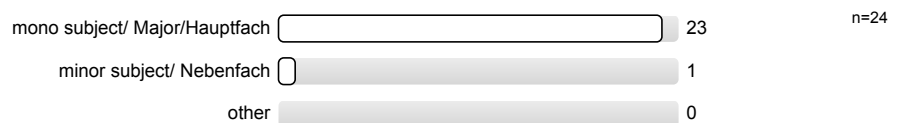
6.3) How many lectures did you miss?



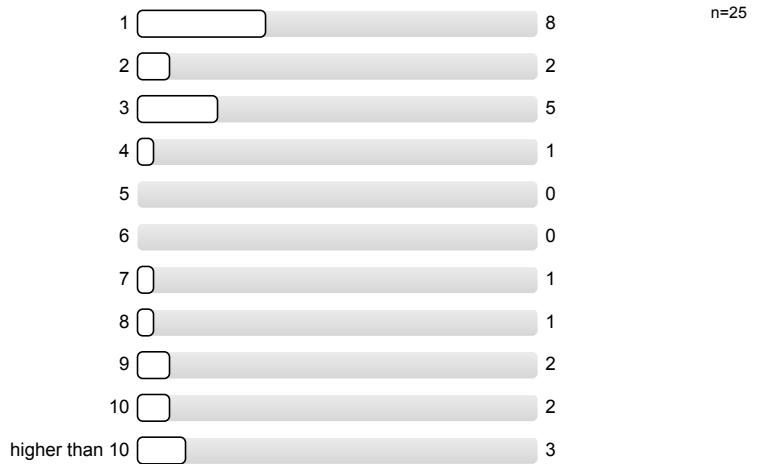
6.4) If you missed more than 2 lectures, please give one reason:



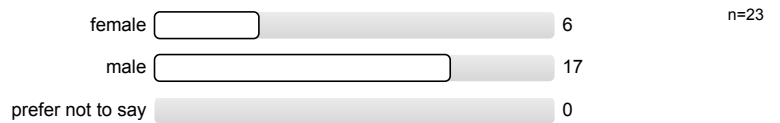
6.5) Allocation of the course in your study programme:



6.6) Your current number of semesters since starting your studies:

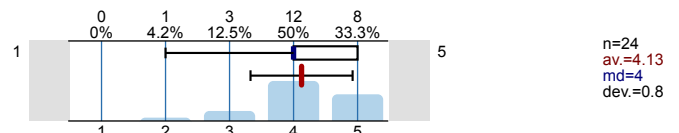


6.7) Sex:

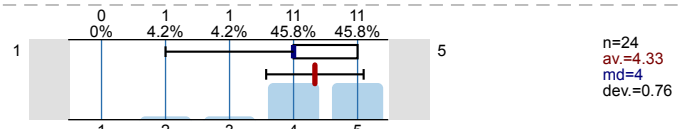


8. Assessment of Individual Lectures

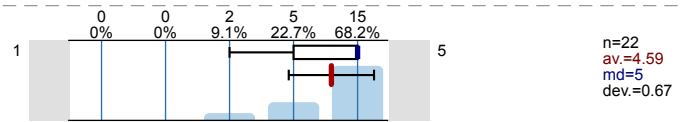
8.1) Introduction to Software Modeling and Analysis



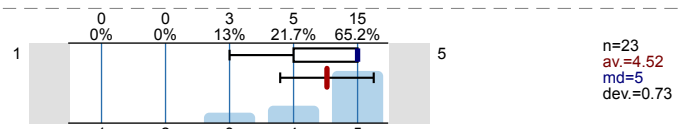
8.2) Smalltalk: A Reflective Language and System



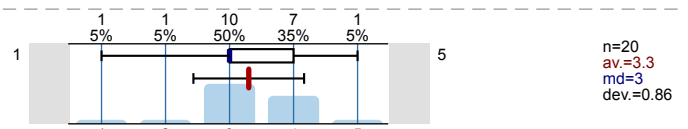
8.3) Understanding Classes and Metaclasses



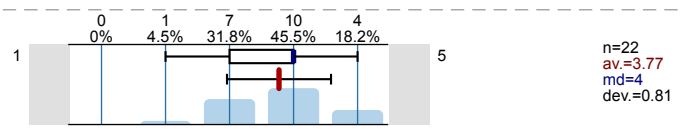
8.4) Reflection and Metaprogramming



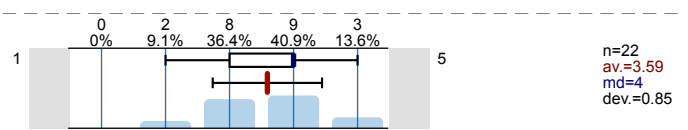
8.5) Moldable Software Exploration (Tudor Girba)



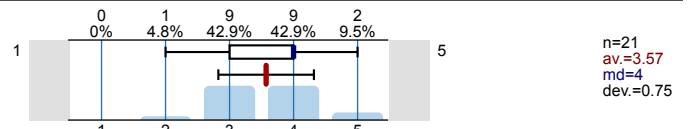
8.6) Software Metrics and Problem Detection; Moose (Andrei Chiş)



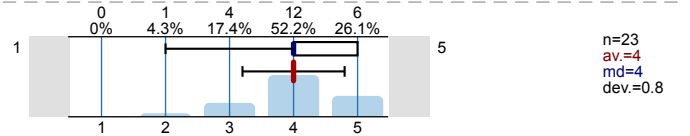
8.7) Socio-technical Aspects in Software Systems (Alberto Bacchelli)



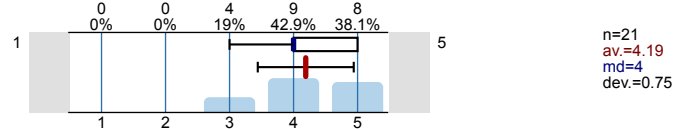
8.8) Static Program Analysis / Soot



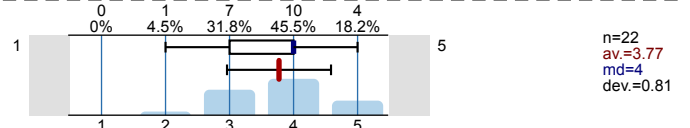
8.9) Software Visualization (Leonel Merino)



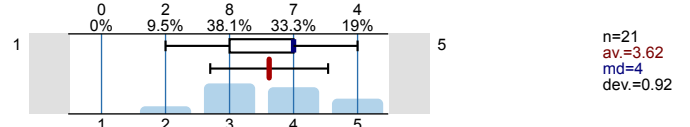
8.10) Bug prediction (Haidar Osman)



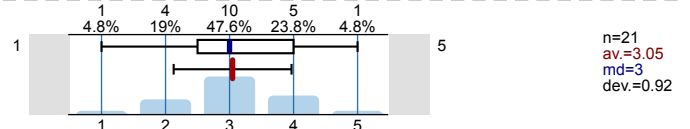
8.11) Software Data Analytics (Nevena Lazarević)



8.12) Code/test smells (Fabio Palomba)



8.13) Data Engineering (Pietari Kettunen)



Profile

Subunit: Phil.-nat. Fakultät
 Name of the instructor: Prof. Dr. Oscar Nierstrasz
 Name of the course: Software Modeling and Analysis
 (Name of the survey)

Values used in the profile line: Mean

1. Conveying the course content

Item	not true	Scale	true	n	av.	md	dev.
1.1) The course follows a coherent structure.		-----■-----		22	4.45	5.00	0.67
1.2) The wider context of the subject matter is sufficiently elucidated.		-----■-----		25	4.56	5.00	0.51
1.3) The lecturer expresses him-/herself clearly and comprehensibly.		-----■-----		24	4.71	5.00	0.55
1.4) The course provides an adequate overview of the subject matter treated.		-----■-----		24	4.67	5.00	0.48
1.5) The design of the course contributes to an understanding of the subject matter.		-----■-----		24	4.71	5.00	0.55

2. Course materials to assist Learning

Item	not true	Scale	true	n	av.	md	dev.
2.1) There is overall enough material provided to assist the learning process (slides, course material, hand-outs, etc.).		-----■-----		25	4.60	5.00	0.58
2.2) The course materials (slides, course manuals, hand-outs, etc.) are overall of sufficient quality.		-----■-----		25	4.32	4.00	0.69

3. Commitment of the lecturer

Item	not true	Scale	true	n	av.	md	dev.
3.1) The lecturer takes students seriously.		-----■-----		24	4.83	5.00	0.48
3.2) The lecturer is friendly and respectful towards students.		-----■-----		24	4.96	5.00	0.20
3.3) The lecturer addresses questions and suggestions from students adequately.		-----■-----		25	4.92	5.00	0.28
3.4) The lecturer seems to care about his/her students' learning progress.		-----■-----		25	4.88	5.00	0.33

4. Complexity and Scope

Item	too low/narrow	Scale	too high / wide	n	av.	md	dev.
4.1) The degree of difficulty of the course is:		-----■-----		25	3.20	3.00	0.58
4.2) The amount of content of the course is:		-----■-----		24	3.29	3.00	0.62
4.3) The pace of the course is:		-----■-----		25	3.08	3.00	0.40
4.4) The amount of knowledge presupposed by the course is:		-----■-----		24	2.96	3.00	0.20

5. Overall Assessment

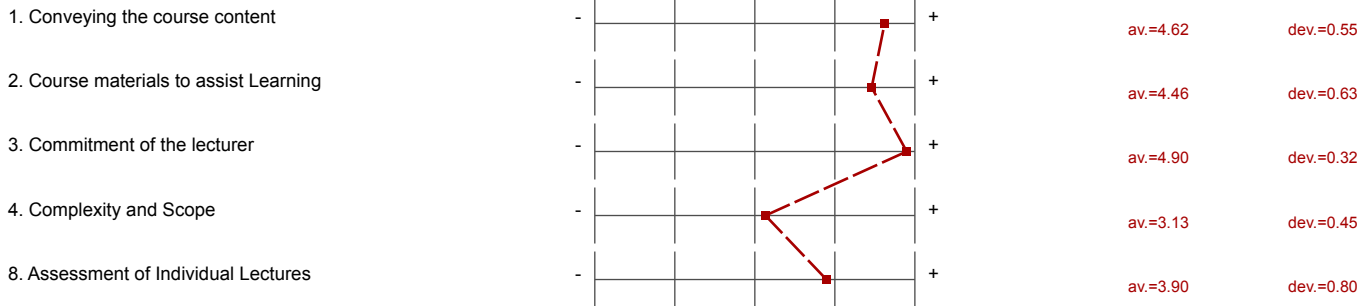
5.1) How would you grade the course as a whole?	1=poor		6=excellent	n=24	av.=5.21	md=5.00	dev.=0.41
5.2) How would you grade the lecturer with regard to <u>subject expertise</u> ?	1=poor		6=excellent	n=24	av.=5.88	md=6.00	dev.=0.34
5.3) How would you grade the lecturer with regard to <u>teaching methods</u> ?	1=poor		6=excellent	n=24	av.=5.71	md=6.00	dev.=0.55
5.4) The course has taught me:	very little		an awful lot	n=24	av.=4.08	md=4.00	dev.=0.41

8. Assessment of Individual Lectures

8.1) Introduction to Software Modeling and Analysis	1		5	n=24	av.=4.13	md=4.00	dev.=0.80
8.2) Smalltalk: A Reflective Language and System	1		5	n=24	av.=4.33	md=4.00	dev.=0.76
8.3) Understanding Classes and Metaclasses	1		5	n=22	av.=4.59	md=5.00	dev.=0.67
8.4) Reflection and Metaprogramming	1		5	n=23	av.=4.52	md=5.00	dev.=0.73
8.5) Moldable Software Exploration (Tudor Girba)	1		5	n=20	av.=3.30	md=3.00	dev.=0.86
8.6) Software Metrics and Problem Detection; Moose (Andrei Chiş)	1		5	n=22	av.=3.77	md=4.00	dev.=0.81
8.7) Socio-technical Aspects in Software Systems (Alberto Bacchelli)	1		5	n=22	av.=3.59	md=4.00	dev.=0.85
8.8) Static Program Analysis / Soot	1		5	n=21	av.=3.57	md=4.00	dev.=0.75
8.9) Software Visualization (Leonel Merino)	1		5	n=23	av.=4.00	md=4.00	dev.=0.80
8.10) Bug prediction (Haidar Osman)	1		5	n=21	av.=4.19	md=4.00	dev.=0.75
8.11) Software Data Analytics (Nevena Lazarević)	1		5	n=22	av.=3.77	md=4.00	dev.=0.81
8.12) Code/test smells (Fabio Palomba)	1		5	n=21	av.=3.62	md=4.00	dev.=0.92
8.13) Data Engineering (Pietari Kettunen)	1		5	n=21	av.=3.05	md=3.00	dev.=0.92

Profile Line for Indicators

Subunit: Phil.-nat. Fakultät
Name of the instructor: Prof. Dr. Oscar Nierstrasz
Name of the course: Software Modeling and Analysis
(Name of the survey)



Comments Report

7. Comments

7.1) What did you like about the course?

I have learnt many new things.

New topic in this master. Could learn and benefit a lot of it.
Mixed expertise with guest lecturers. Interesting insights.
Pascal's feedback is the greatest I ever got during my studies.

Good learning material (except for some guest lectures) and motivated/knowledgeable teaching assistant

It had a lot of guest lectures. This provided a more spread view of the field

good combination - Theory - Practice + ~~the~~ Programming

The slides of Prof. Niestrasz are really good, also the lecture itself.
The TA did a very good job, there are good feedbacks for us and he always answered the question ~~in a great speed~~ quickly.

I liked the first four lectures due to the topic (inner working of pharo), metaprogramming

A wide area is explored and give us a good overview on the ~~the~~ subject with quite a lot of details.

Any questions were always sufficiently answered.
Lectures were good.
Assistants were good.

It shows a different view on coding

The communication with lecturer and teaching assistants was excellent. Guest lectures is a very nice way to learn from field professionals. Exercises are of high quality. Great feedback.

The course content

Practical session in a decent level

Even though it was too much, I like the content.

Assistant, Pascal, is very friendly and helpful.

Guest lectures, great assistants, engagement from the teaching staff

Guest Lectures

- Assignments were great
- What you should know part at the end of each slide decks
- Explanation slides
- great assistant work!

Exercises very well tutored! Thanks!
Slides & Hidden Slides very expressive

Clear setup, good pace

Nice assistant, funny, creative, etc. I liked the idea of the guest lecturer. The exercises were on topic

Contents, Topics, Guest Lectures, Practical Parts
Assistant!

7.2) What did you not like about the course?

Sometimes I felt little complicated.

The amount of content is very wide, => interesting courses but hard to learn everything without open book :-)

Missed a project (e.g. analysing a OSS application maybe in a Lab)

Lots of guest lectures made the quality of the course inconsistent

sometimes assignment took too long to solve

Some slides from the guest lecture are horrible (layout and content)

A few lectures had overlapping topics

the first half of the course was much better than the second half. (both lectures and assignments)

That the exam is at the end of the semester.

lot of content, many topics

I believe content was too much.

Some information missing from the slides, beginning a bit tough (learning curve)

/

- Some guest lectures were sometimes a bit too focused on researchers work
e.g. the test smell lecture.

Guest lectures sometimes seemed "isolated" without any context.

Small Talk ...

/

7.3) Suggestions for improvements?

Doing analysis of 4 OSS Project during the whole semester

No "What are the differences between ..." - questions for things that are very different.

no survey BEFORE exam;-)

More insight into different metaprogramming capabilities
focus






Invite only the best guest lecturers.

less guest lectures

Maybe some contents can be discarded.

- Would be nice to have these what you should know also for all guest lectures

Use Ruby, Python, or others

	-					+	Ø	dev.
1. Conveying the course content	0%	20%	40%	60%	80%	100%	4.62	0.55
								
	Scale width: 5							
2. Course materials to assist Learning	0%	20%	40%	60%	80%	100%	4.46	0.63
								
	Scale width: 5							
3. Commitment of the lecturer	0%	20%	40%	60%	80%	100%	4.9	0.32
								
	Scale width: 5							
4. Complexity and Scope Complexity and Scope: left pole=too low, right pole=too high; grade 3=exactly right	0%	20%	40%	60%	80%	100%	3.13	0.45
								
	Scale width: 5							
8. Assessment of Individual Lectures	0%	20%	40%	60%	80%	100%	3.9	0.8
								
	Scale width: 5							

dev.=Std. Dev.