



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: HS19 Einführung in Software Engineering (2420)

Dear Mr./Mrs. Prof. Dr. Nierstrasz

Please find here the results of the evaluation of your course "Einführung in Software Engineering". 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.

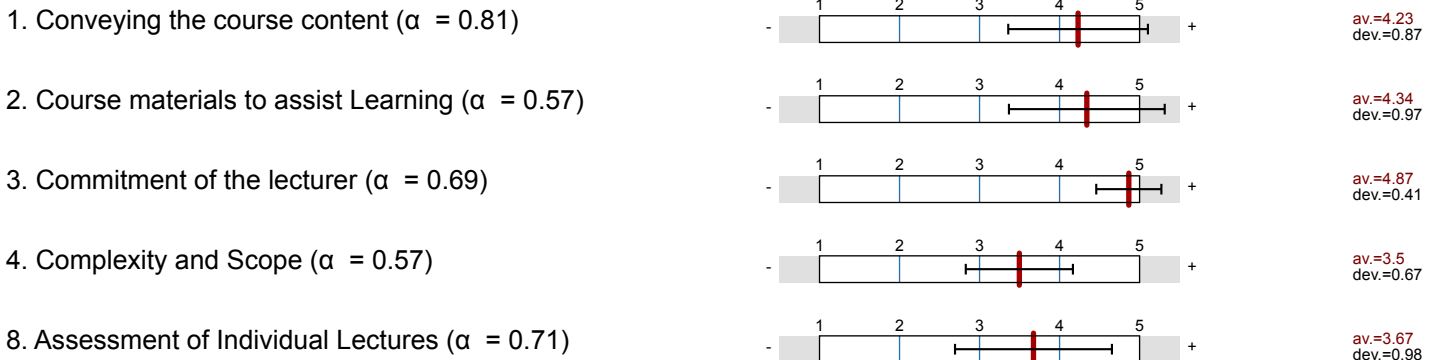
Yours sincerely

D. Wuillemin
Evaluation office
Vice-rectorate of teaching

Daniela Wuillemin
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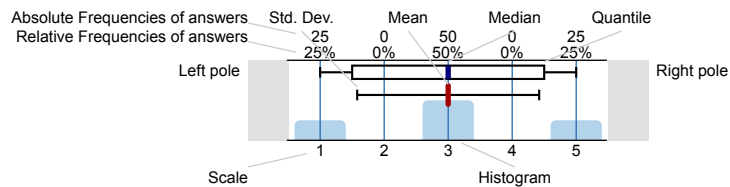
Overall indicators



Survey Results

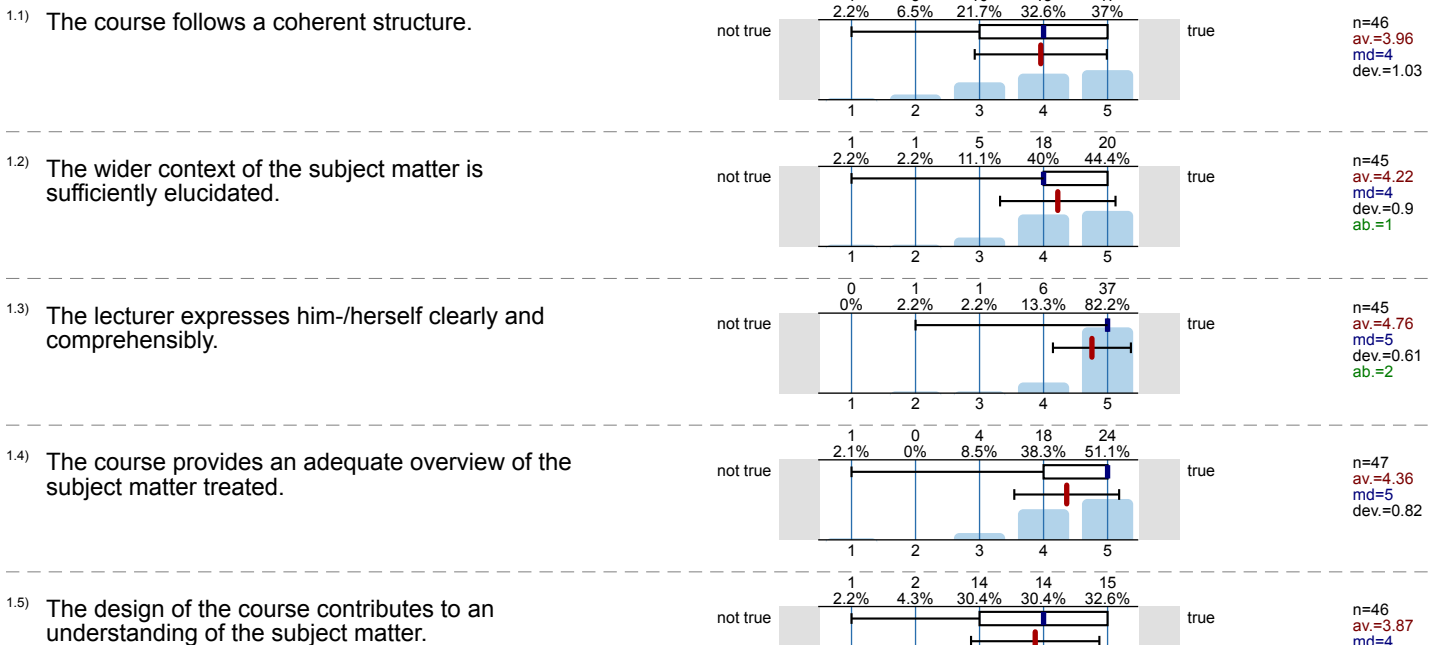
Legend

Question text



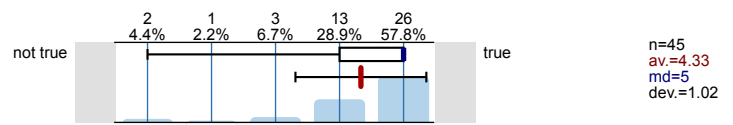
n=No. of responses
 av.=Mean
 md=Median
 dev.=Std. Dev.
 ab.=Abstention

1. Conveying the course content

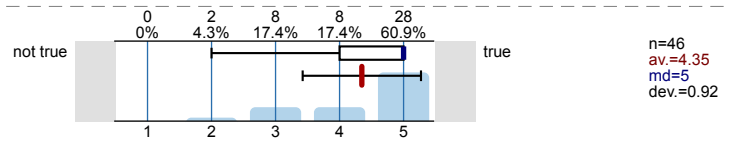


2. Course materials to assist Learning

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

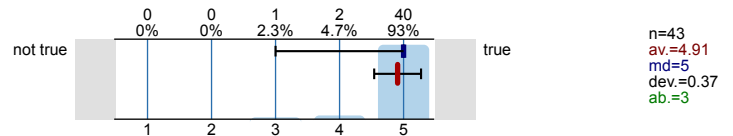


2.2) The course materials (slides, course manuals, hand-outs, etc.) are overall of sufficient quality.

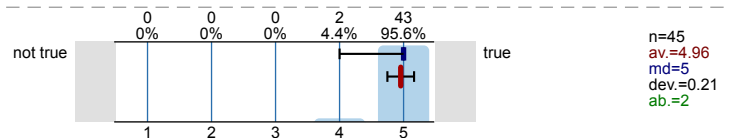


3. Commitment of the lecturer

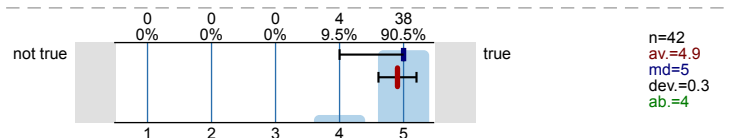
3.1) The lecturer takes students seriously.



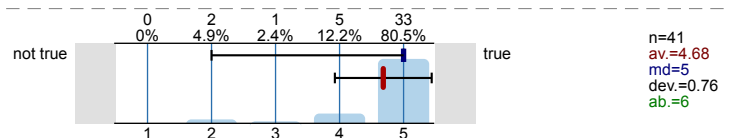
3.2) The lecturer is friendly and respectful towards students.



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

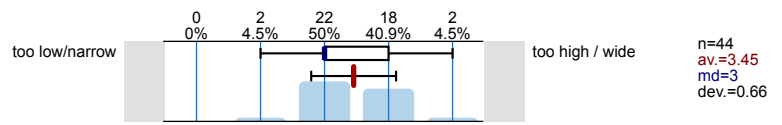


3.4) The lecturer seems to care about his/her students' learning progress.

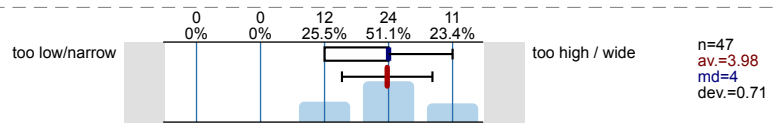


4. Complexity and Scope

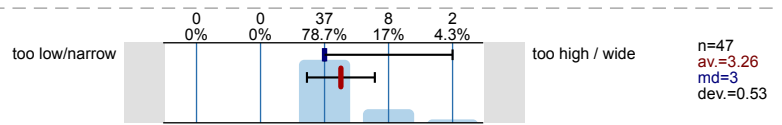
4.1) The degree of difficulty of the course is:



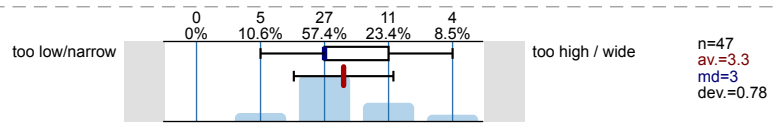
4.2) The amount of content of the course is:



4.3) The pace of the course is:



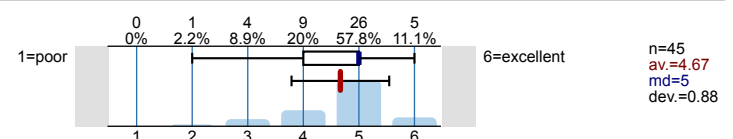
4.4) The amount of knowledge presupposed by the course is:



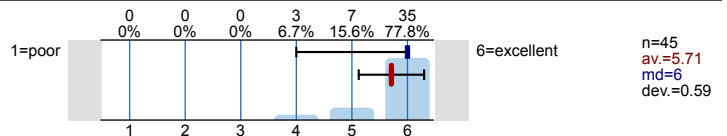
Questions continued on the next side

5. Overall Assessment

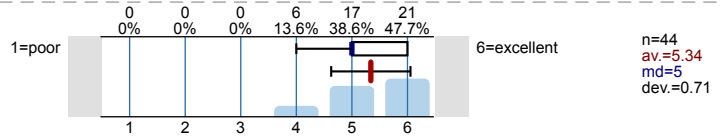
5.1) How would you grade the course as a whole?



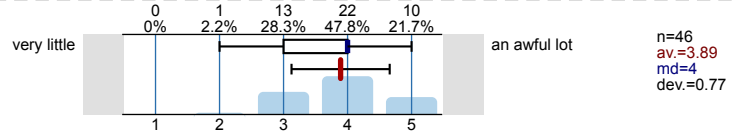
5.2) How would you grade the lecturer with regard to subject expertise?



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

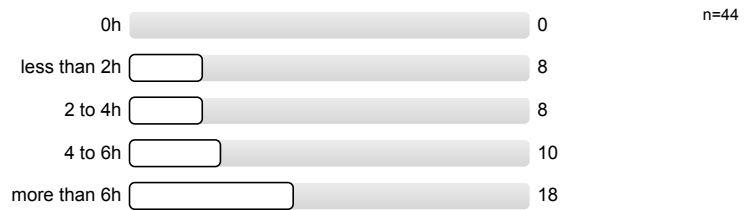


5.4) The course has taught me:



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)?



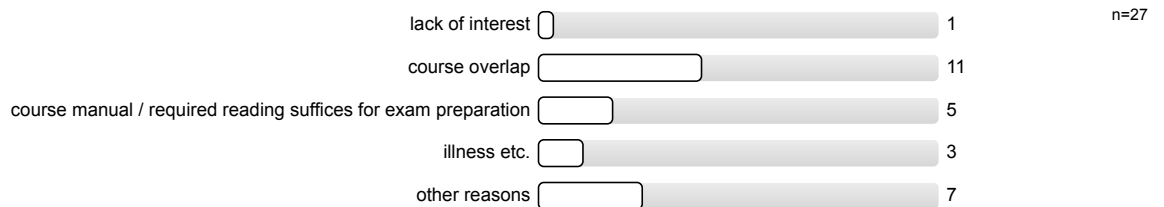
6.2) Was the topic of interest to you?



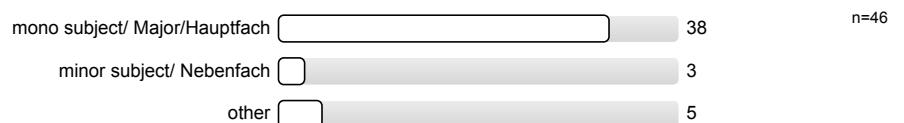
6.3) How many lectures did you miss?



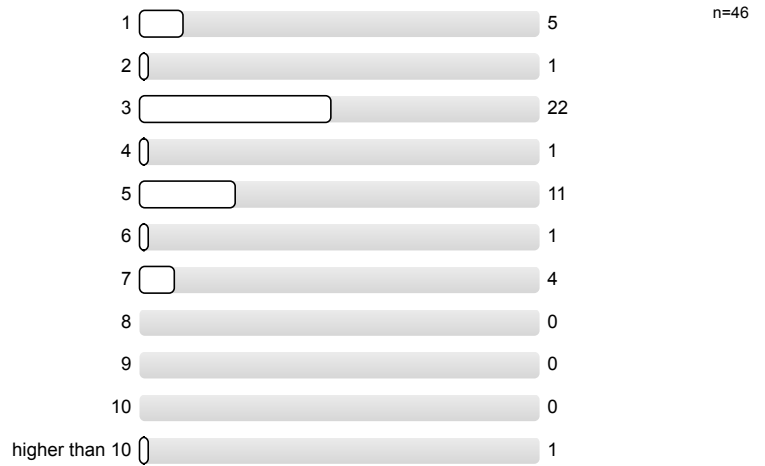
6.4) If you missed more than 2 lectures, please give one reason:



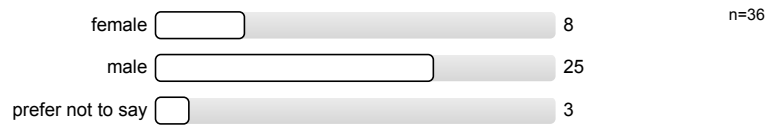
6.5) Allocation of the course in your study programme:



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



6.7) Sex:



7. Comments

Please take advantage of the opportunity to comment your answers above.

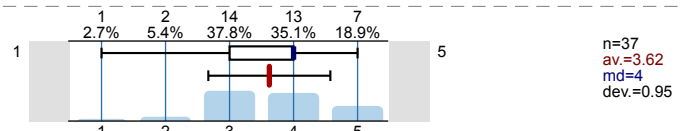
Questions continued on the next side

8. Assessment of Individual Lectures

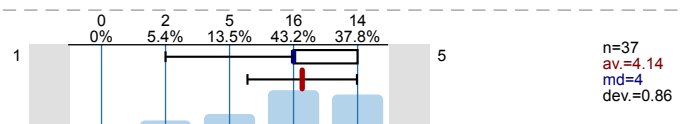
I learned a lot from this lecture:

(Please leave blank if you did not attend)

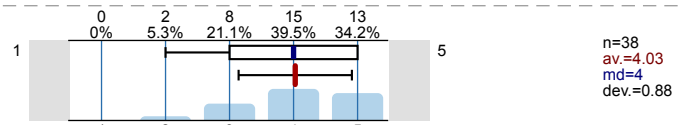
8.1) Introduction: The Software Lifecycle



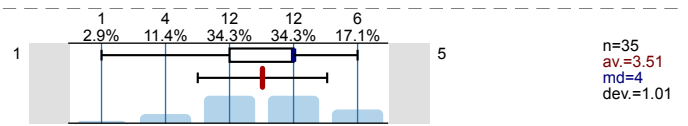
8.2) Requirements Collection



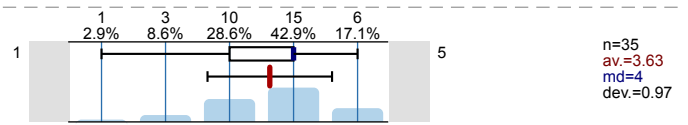
8.3) Agile Practices in Industry



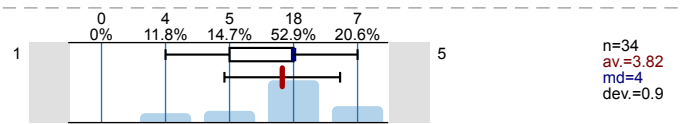
8.4) Modeling Objects and Classes



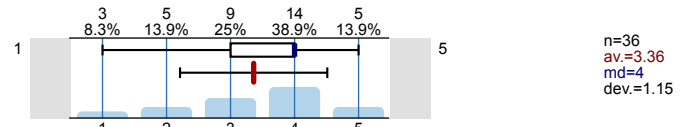
8.5) Modeling Behaviour



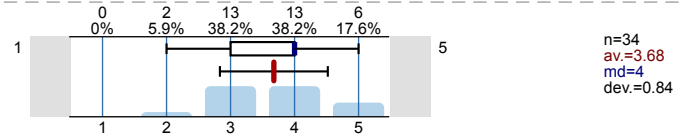
8.6) Software Testing



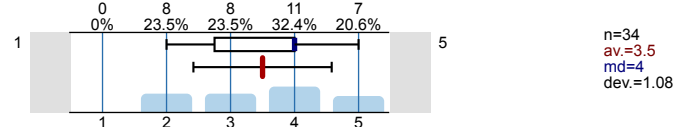
8.7) User Interface Design



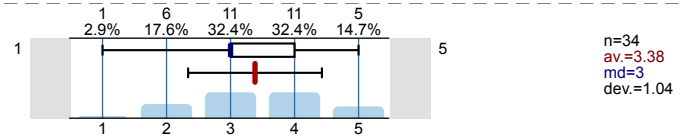
8.8) Software Quality



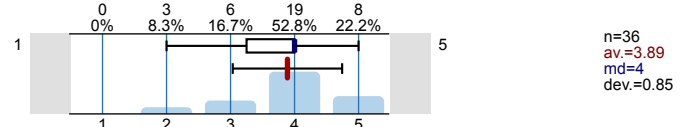
8.9) Software Security



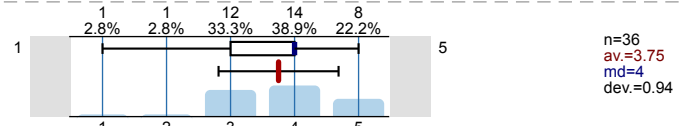
8.10) Software Metrics



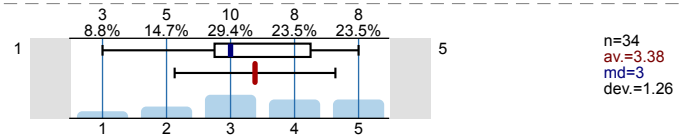
8.11) Project Management



8.12) Software Architecture



8.13) SE in practice



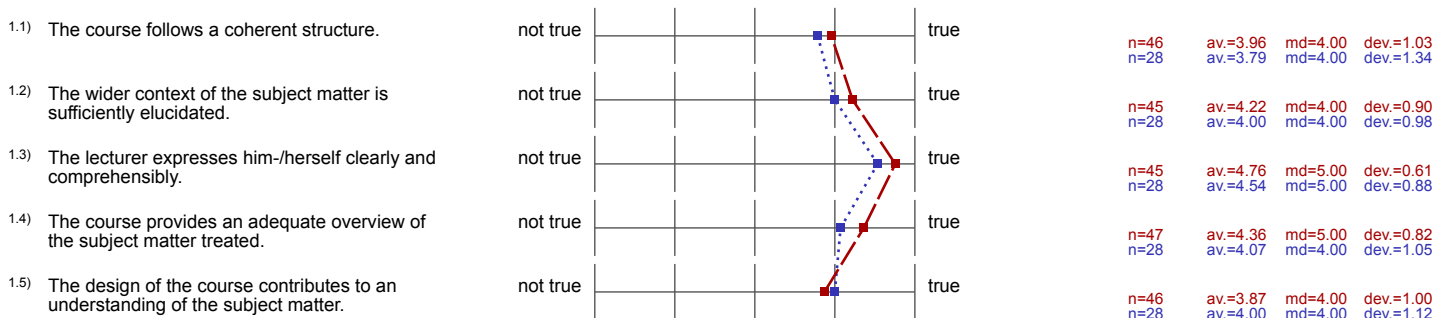
Many thanks for your cooperation

Profile

Subunit: Phil.-nat. Fakultät
 Name of the instructor: Prof. Dr. Oscar Nierstrasz
 Name of the course: Einführung in Software Engineering
 (Name of the survey)
 Comparative line: HS18 - Einführung in Software Engineering

Values used in the profile line: Mean

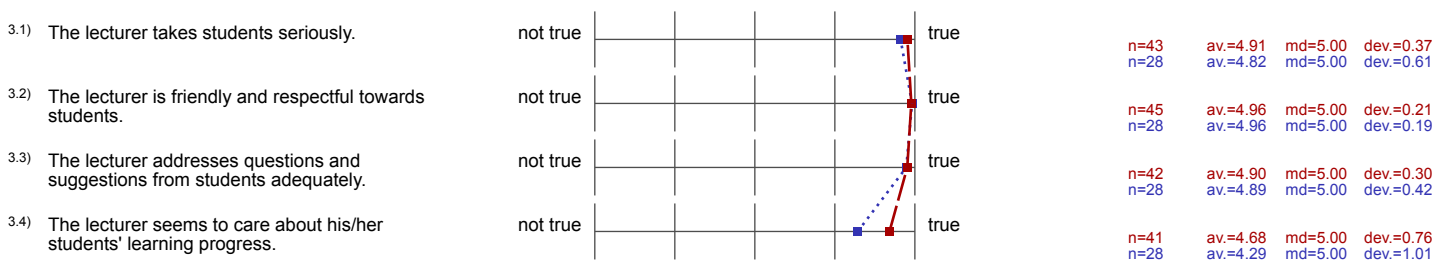
1. Conveying the course content



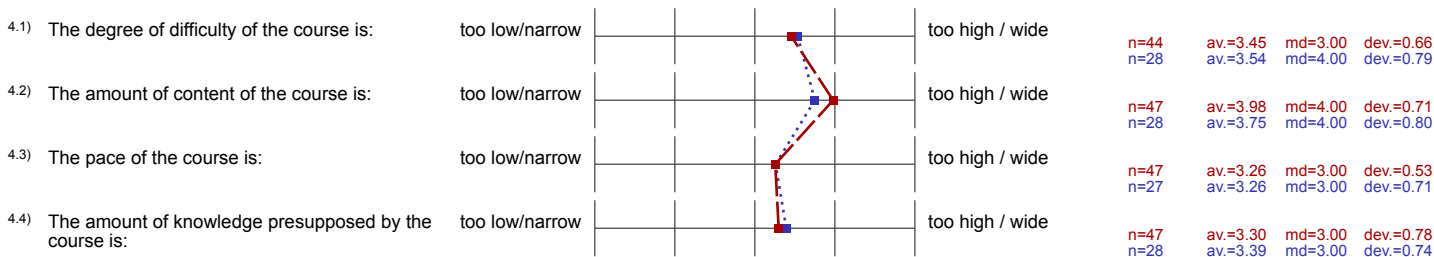
2. Course materials to assist Learning



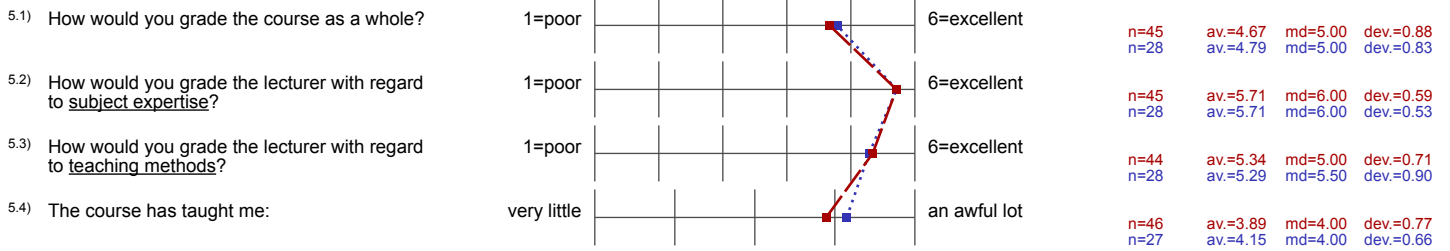
3. Commitment of the lecturer



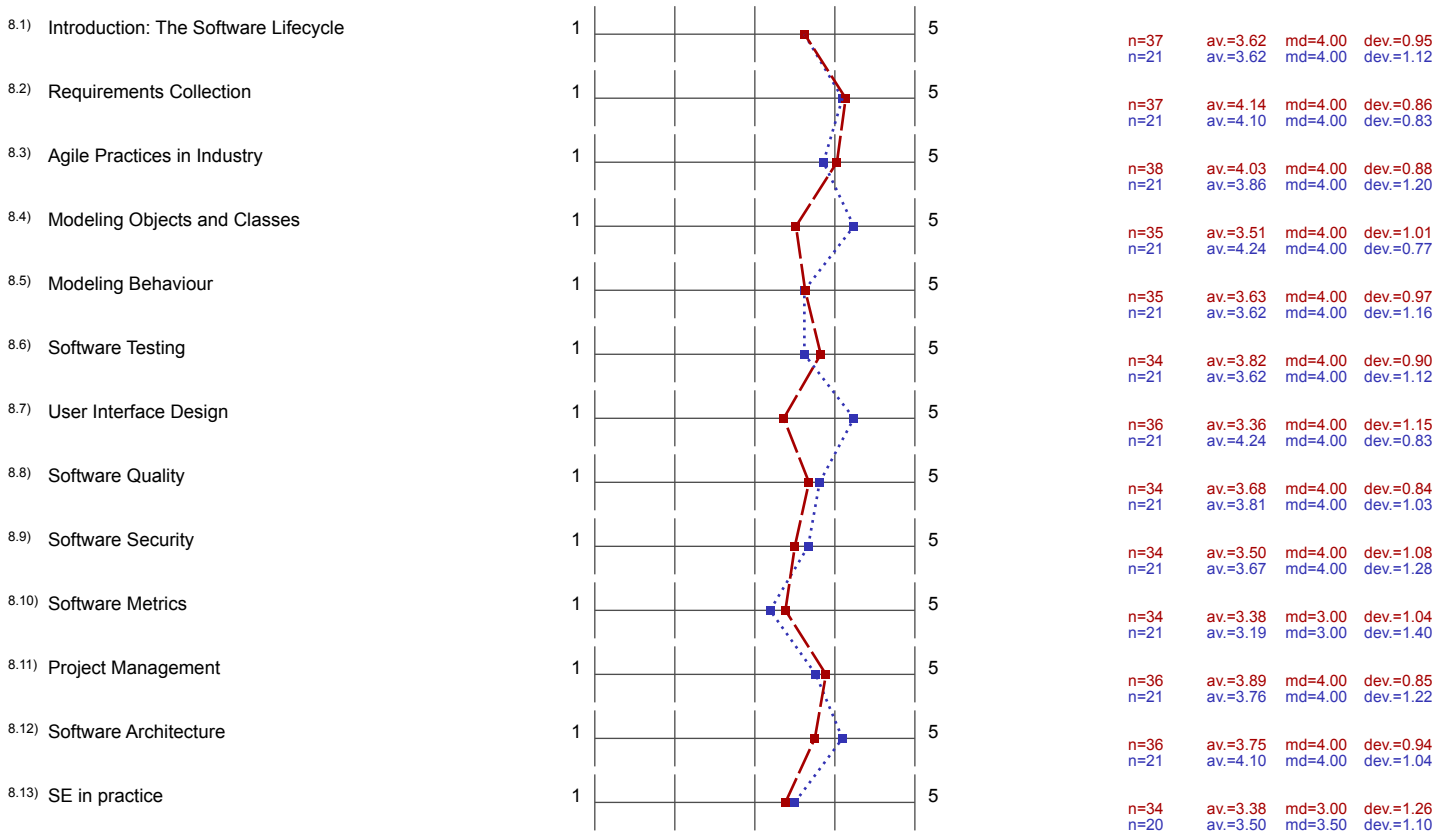
4. Complexity and Scope



5. Overall Assessment

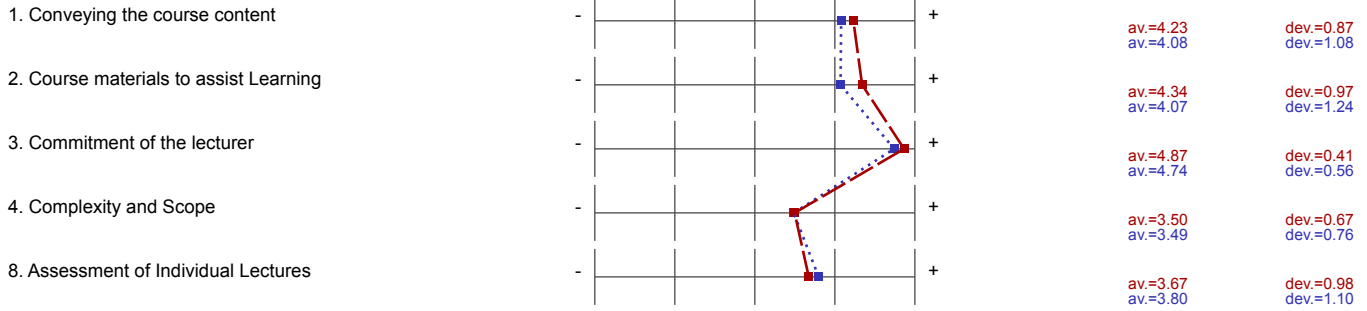


8. Assessment of Individual Lectures



Profile Line for Indicators

Subunit: Phil.-nat. Fakultät
Name of the instructor: Prof. Dr. Oscar Nierstrasz
Name of the course:
(Name of the survey) Einführung in Software Engineering
Comparative line: HS18 - Einführung in Software Engineering



Comments Report

7. Comments

7.1) What did you like about the course?

I really liked the project we did. I learned a lot while communicating/interacting with my team.

- Good project
- Informative slides

The practical part was very interesting. We could be very creative and very independent. Also we could apply the theory learned in the course.

The project

PRACTICAL & EXERCISES

GOOD LECTURER, MOSTLY GOOD GUEST LECTURES

I really liked the structure of the course. With a different specific subject each week. &

The overview of the subject, the lecturer and the guests.

I had project during semester and I learnt lots of new information. Thank you for everything...

assistants really nice to help with exercise

Guest lectures

Podcast incl. Google pictures

lecturer speaks clearly and precisely. @

slides provided are great to revise especially due to the what you should know / can you answer these questions

great project during ex. hours, great course overall

The project was really cool although it was quite hard.
I like the questions at the end of all lecture slides.
Most guest lectures were very interesting.

Oh, Nikky! He assists in general. Also nice guest lectures.

The guest lectures were very interesting. The project taught me very much.

As I didn't attend lectures I cannot say anything about them. But the project was fun and I learned a lot!

The inclusion of speakers from the industry.

The exercise is engaging and competitive.

The amount of practical exercises, like drawing UML.
The testing lecture was very interesting.

The possibility to make a project

many guest lectures

- The professor
- Guest lectures

The podcast

The guest lectures (some were a bit in the dark but interesting anyways)

Lectures about design were very interesting

The practical project was very tempting and interesting

very clear structure
prof takes the students very seriously
comprehensive notes

Project
Guestlectures

Open and interested environment

It gave a lot of insight into various topics of Software Engineering, while focusing a lot on practice and actual work experience (→ guest lectures).
The theory lectures were very insightful.

Programming Project, although it was quite time-consuming.

7.2) What did you not like about the course?

Preparation for the exam / the exam itself. It was a lot and really theoretical and hard to know what to learn

• Guest lectures (especially Nr 14) were not so interesting / were inefficient

That the project does only count 40%, the effort was very much higher.

LECTURES SEEMED TO ~~MANAGE~~ ALWAYS COME TOO LATE
TO BE USEFUL IN THE PROJECT; NOT A LOT OF OVERLAP LECTURES/PROJECT
LAST GUEST LECTURE OF LOW QUALITY

I wouldn't change anything about the course. I surely failed the exam but it's due to doing too little too late.

The way the final project is managed.

I am an erasmus student and my department is Business Informatic. This course was so difficult for me.

Project is too much work compared to amount of ECTS

It would be nice to be able to use a programming language we learned last year instead.

- lecture slides feel old
- exercises and lectures are not really connected

exercises took ages and was really complicated

Too short of an introduction into language and environment that we had to use for project.

Would have ~~also~~ liked an example exam to study to understand where the focus lies

I felt quite insecure about the exam. I wished for more information. Also, I think, 5 ECTS is not enough as I invested at least 10h per week for the project (without lectures/exam preparation etc.)

Same as in P2, but worse: Project takes way too much time. Easily around 10h per week; for 5 ECTS. We have other courses and they need time as well... Plus relatively big exam topics even after the exhaustive project, and no doubt should allowed.

The projects cost 10+ hours a week, yet we still have to write an exam that counts even more. I find that rather

- unclear, was/were or learn ist (für die Prüfung)
- Gastvorträge uninteressant/irrelevant

requirements for project unclear. A lot of work. A little bit more monitoring if everyone in team did sth for the project or whether some are just hanging in it but

The lack of guidance for the project. Can also be seen as positive

The exercise does not necessarily match the scope of the course. Learning about UML's and building a full mobile and desktop app with front & backend feels quite mismatched.

~~The~~ The Project that gives 40% of 5 ECTS so 2 ECTS took 1000 hours for some teams? That's pretty unreasonable.

The learning-curve of the project was very steep in the beginning.

interesting project but task could have been clearer

- The exercise project was a bit to hard, we didn't really learn anything in the course about our project. We had to self-study everything

The project effort was high

- requires obscure amount of dedication
- extremely steep beginning to course because of projects which practically forces you to neglect theory of course
- theory you learn seems utopic and far-fetched or simply no too professional / corporate / practical when you're at the same time struggling with project which leads to disconnection of the two

the quality of the guest lectures was not always good and it was not always clear what the learning goals of the guest lectures were.

no/little connection lectures Project / almost like two different courses
almost no information on the exam only Date was printed, published

Exercises were really chaotic and unstructured, as goals were not clear sometimes

guest ~~lecturers~~ lecturers do not provide much ~~value~~
(excl. testing) (esp. agile methods)

It was a lot of work, especially with the project. I would've preferred if the project evaluation had more weight on the final mark, since it was the main focus effort-wise at this course.

- The Language
- The slides were a bit over-bounded and the layout is outdated which makes it hard to learn
- Time effort for the project was like 90% and for the actual course 10%

7.3) Suggestions for improvements?

It would be better if the software project counted at least 50% or it ~~was~~ took a lot more time than the exam. It would be cool if it was more practical (help to implement principles in the project)

Make a clear structure and don't have different definitions by you and a guest lecturer

Provide UML exercises.

INTEGRATE LECTURES AND PROJECT BETTER (E.G. PROJECT MANAGEMENT LECTURE EARLIER)

Either limit or be more exact on the project requirements or let it be free for students to decide. select specific tools. Unlink the project with engineering, not programming. More hours were spent programming than engineering the project.

Use the same language in P2 and ESE

upload an example exam to ihas

Maybe the order of the lectures could be improved. Some very important lectures (for the project) came just in the end.

Smaller project or no exam or less exam topics or allow a cheat sheet on the exam (like many other IT studies courses!)

Project should give at least 50% or it should be less time consuming

Mehr Hilfestellung bei den Projekten

~~more~~ better group supervision.

Clearer requirements for project + presentation

In the 13th week I believe there was ~~no~~ lecture on project management. I believe it would have been handy to have this at the start, as we effectively had to manage our project

The course content should match the exercise better. 40% of a grade is awfully low for the hours put into it, and did not necessarily prepare us for the exam.

Have actual Milestones

Smaller project scales, Project feedback before the exams






Maybe skip the whole "assistants are your clients" thing and ease the students more into the project instead of student aimlessly watching tutorials and wasting time till it clicks in their head

-lecture on Project management earlier ~~because modelling is~~
-clear requirements for Project

✘ professor's own lecture on agile development

Organise the project in a more structured / defined way, maybe limit its scope.

Changing the points above

	-					+	Ø	dev.
1. Conveying the course content	0%	20%	40%	60%	80%	100%	4.23	0.87
	 <p style="text-align: right;">Scale width: 5</p>							
2. Course materials to assist Learning	0%	20%	40%	60%	80%	100%	4.34	0.97
	 <p style="text-align: right;">Scale width: 5</p>							
3. Commitment of the lecturer	0%	20%	40%	60%	80%	100%	4.87	0.41
	 <p style="text-align: right;">Scale width: 5</p>							
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%	3.5	0.67
	 <p style="text-align: right;">Scale width: 5</p>							
8. Assessment of Individual Lectures	0%	20%	40%	60%	80%	100%	3.67	0.98
	 <p style="text-align: right;">Scale width: 5</p>							

dev.=Std. Dev.