

Vizerektorat Lehre, iLUB, Hochschulstrasse 6, 3012 Bern

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

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<sup>b</sup>  
**UNIVERSITÄT  
BERN**

Vizerektorat Lehre

**Lehrveranstaltungsevaluation**

Report of evaluation: FS18 Programmiersprachen (2720)

Dear Prof. Dr. Nierstrasz

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

The questionnaire used was PN-P1.V1. In the report, you first see the mean values of the following dimensions:

Planning and Presentation (Skalenbreite: 4)  
Manners with Students (Skalenbreite: 4)  
Interest and Relevance (Skalenbreite: 4)  
Complexity and Scope (Skalenbreite: 5)  
Overall Assessment (Skalenbreite: 6)

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 equals the lowest grade given by the students, grade 4 or more the highest grade (unless a question is reversed). 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.

We hope that this report helps you to analyse your course. Please briefly discuss the results with your students before the end of the semester.

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](mailto: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](http://www.lehrveranstaltungsevaluation.unibe.ch) (documents in German).

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

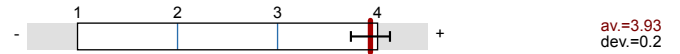
Kind regards  
Daniela Wullemin  
Vice-rectorate of quality

Overall indicators

**Planning and Presentation** (Skalenbreite: 4) ( $\alpha = 0.88$ )



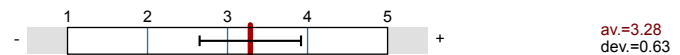
**Manners with Students** (Skalenbreite: 4) ( $\alpha = 0.58$ )



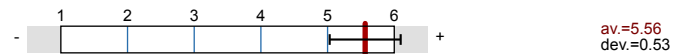
**Interest and Relevance** (Skalenbreite: 4) ( $\alpha = 0.71$ )



**Complexity and Scope** (Skalenbreite: 5) ( $\alpha = 0.6$ )



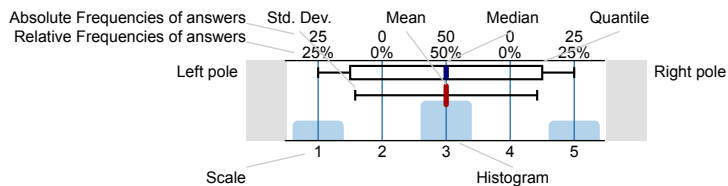
**Overall Assessment** (Skalenbreite: 6) ( $\alpha = 0.64$ )



Survey Results

Legend

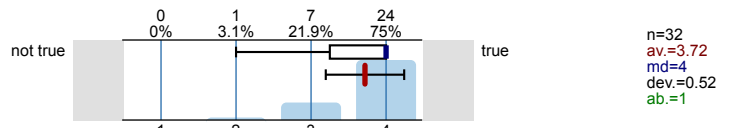
Question text



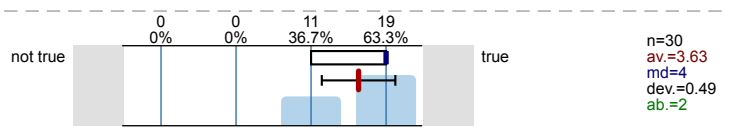
n=No. of responses  
av.=Mean  
md=Median  
dev.=Std. Dev.  
ab.=Abstention

Planning and Presentation

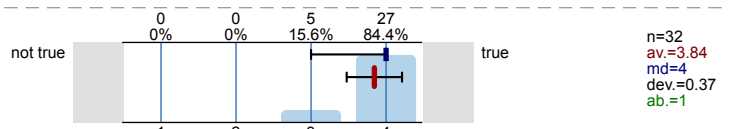
1 The course follows a coherent structure.



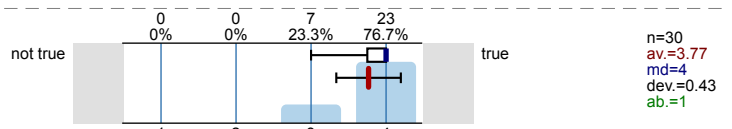
2 The wider context of the subject matter is sufficiently elucidated.



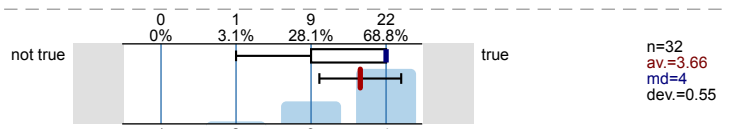
3 The lecturer expresses him-/herself clearly and comprehensibly.



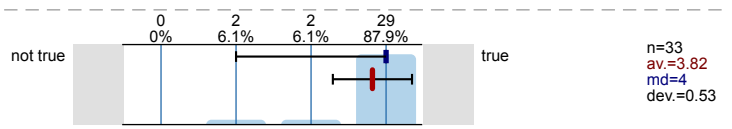
4 The course provides an adequate overview of the subject matter treated.



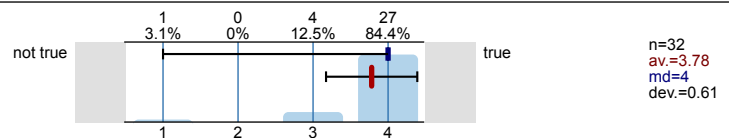
5 The design of the course contributes to an understanding of the subject matter.



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

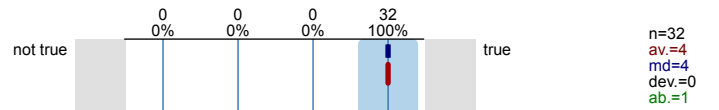


7 The course materials (slides, course manuals, hand-outs, etc.) are overall of sufficient quality.

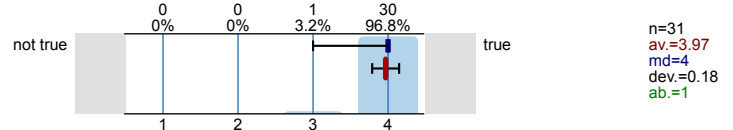


### Manners with Students

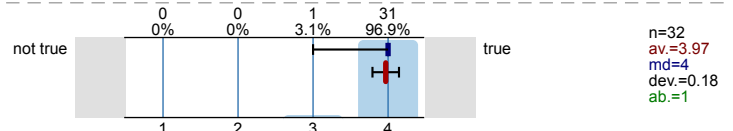
8 The lecturer takes students seriously.



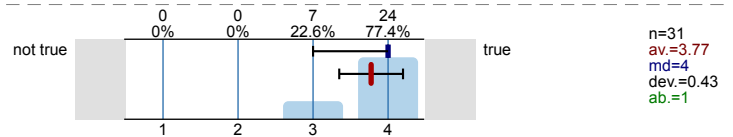
9 The lecturer is friendly and respectful towards students.



10 The lecturer addresses questions and suggestions from students adequately.

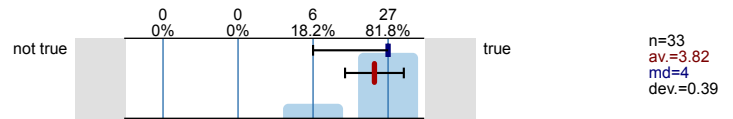


11 The lecturer seems to care about his/her students' progress.

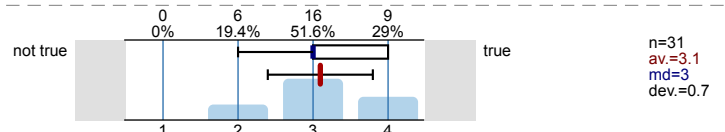


### Interest and Relevance

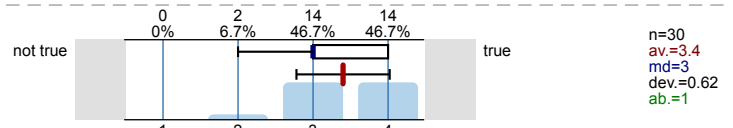
12 The lecturer succeeds in making the course interesting.



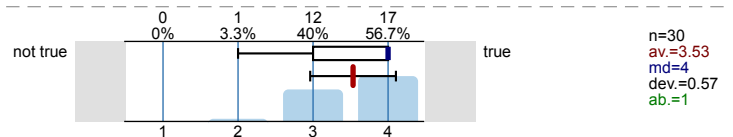
13 The course is probably very useful for my future professional life.



14 The applicability and relevance of the subject matter is sufficiently clarified by the lecturer.

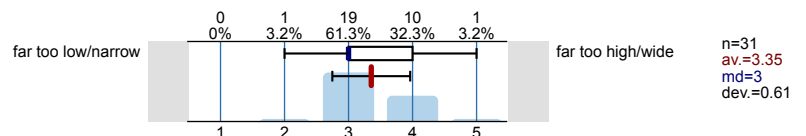


15 The lecturer fosters my interest in the subject.

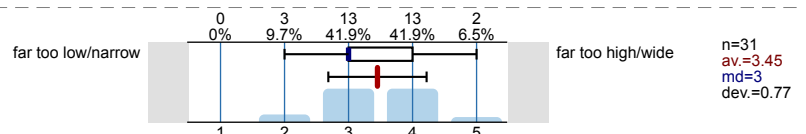


### Complexity and Scope

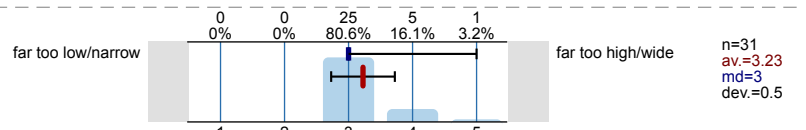
16 The degree of complexity of the course is:



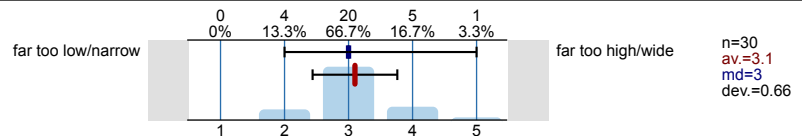
17 The scope of the course is:



18 The pace of the course is:

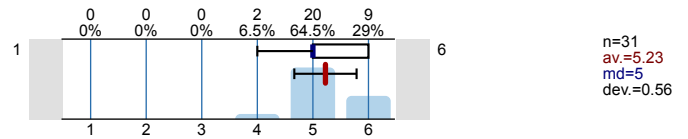


19 The amount of knowledge presupposed by the course is:

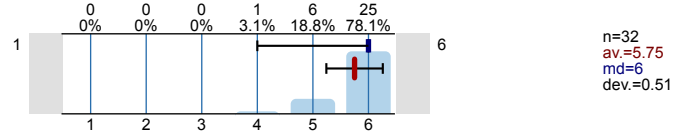


**Overall Assessment**

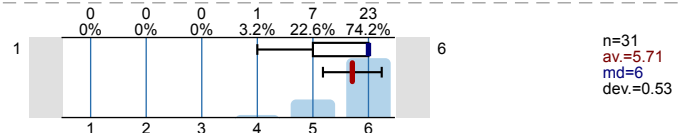
20 How would you grade the course as a whole?



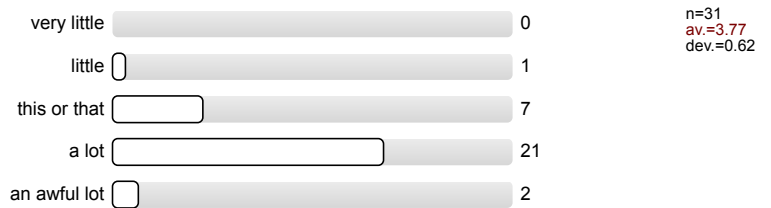
21 How would you grade the lecturer with regard to subject expertise?



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

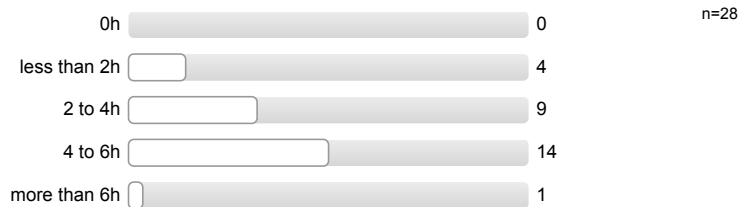


23 The course has taught me



**Socio-demographic Data and Background Variables**

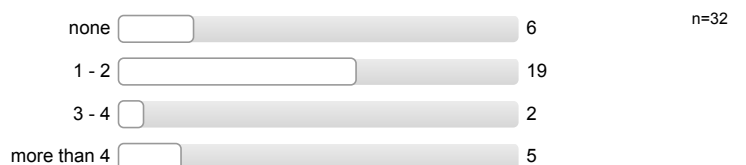
24 How many hours per week did you invest in preparation and revision for the course (on average)?



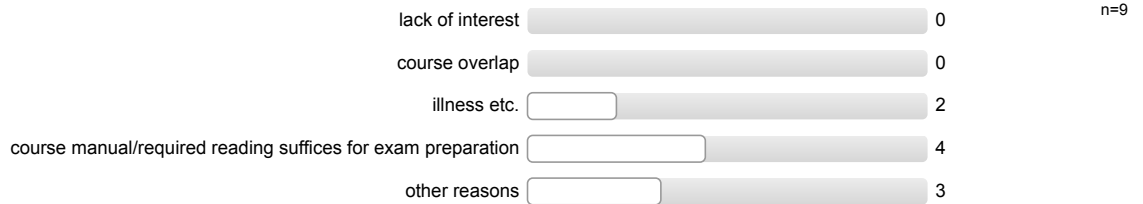
25 Was the topic of interest to you?



26 How many lectures did you miss?



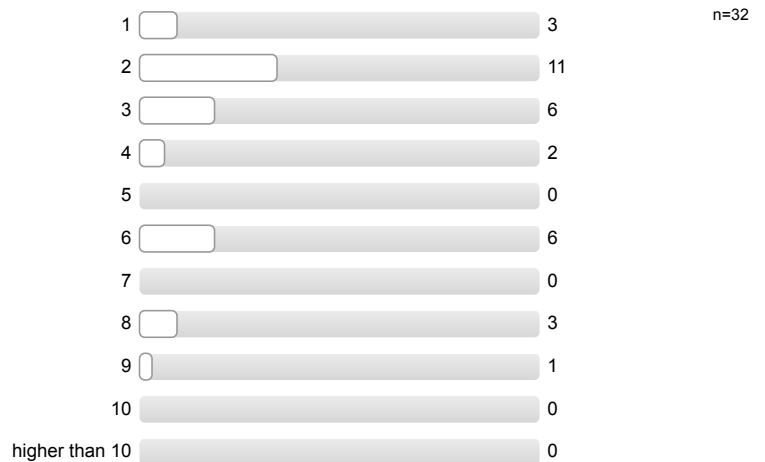
27 If you missed more than 2 lectures, please give one reason:



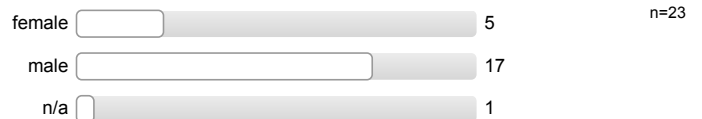
28 Allocation of the course in your study programme:?



29 Your current number of semesters?

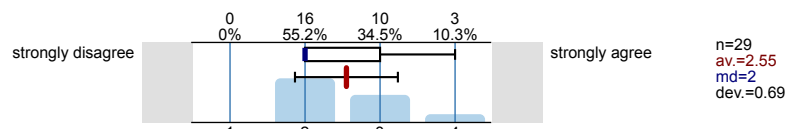


30 Sex

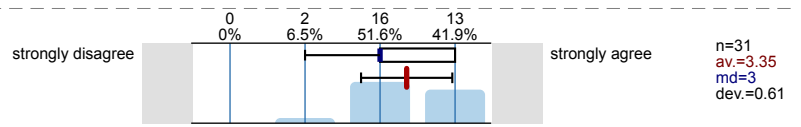


### Assessment of Individual Lectures

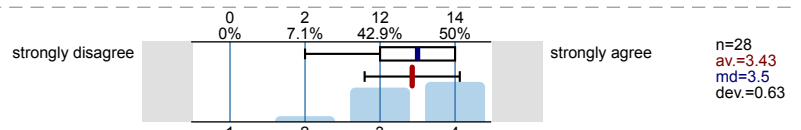
8.1 Introduction



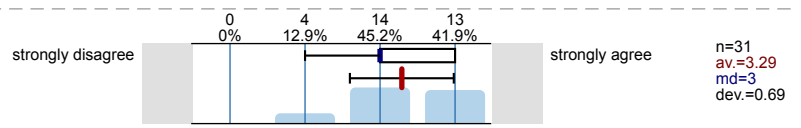
8.2 Stack-based Programming



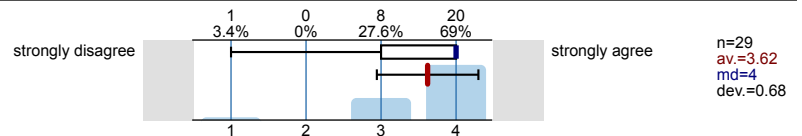
8.3 Functional Programming



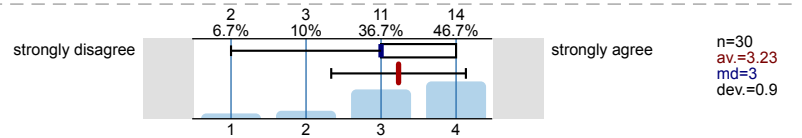
8.4 Types and Polymorphism



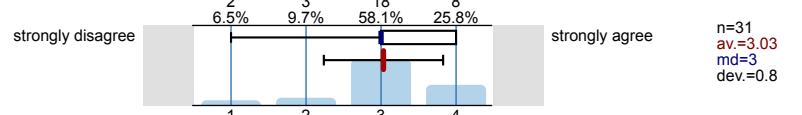
## 8.5 Lambda Calculus



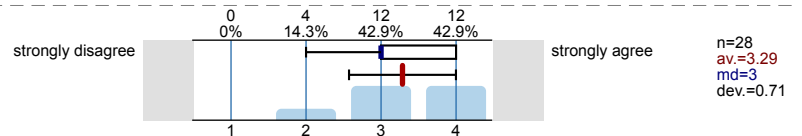
## 8.6 Fixed Points



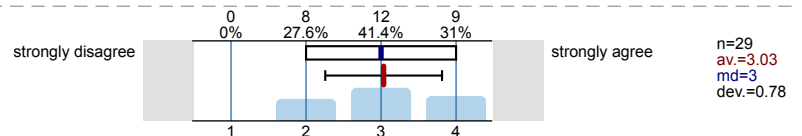
## 8.7 Programming Language Semantics



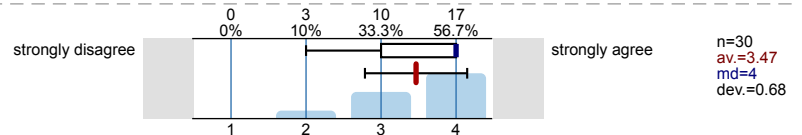
## 8.8 Objects and Prototypes



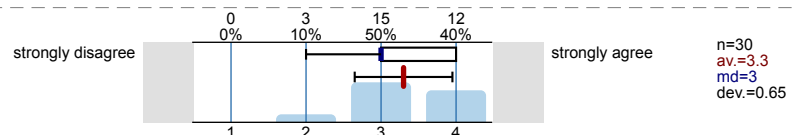
## 8.9 Objects and Types



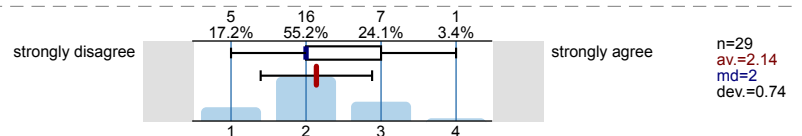
## 8.10 Logic Programming



## 8.11 Applications of Logic Programming



## 8.12 Visual Programming

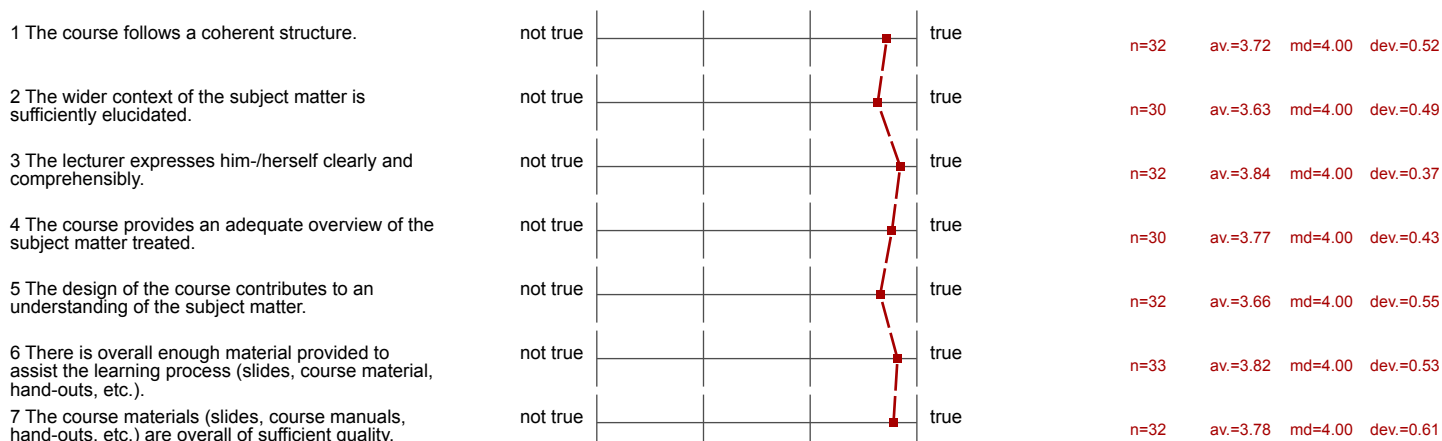


# Profile

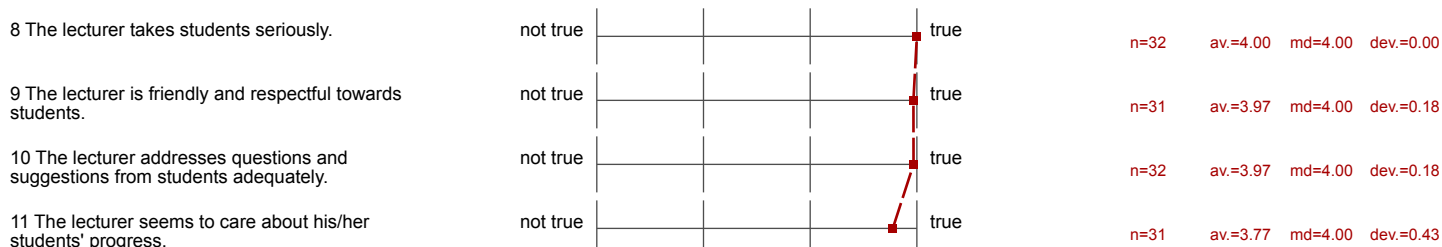
Subunit: Phil.-nat. Fakultät  
 Name of the instructor: Prof. Dr. Oscar Marius Nierstrasz  
 Name of the course: Programmiersprachen  
 (Name of the survey)

Values used in the profile line: Mean

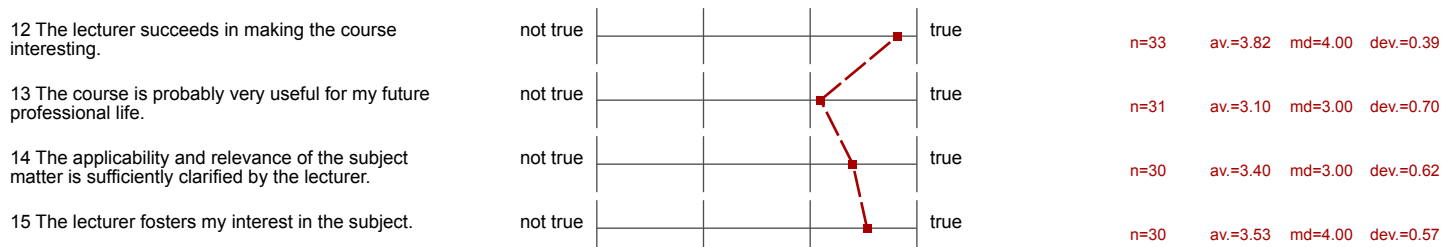
## Planning and Presentation



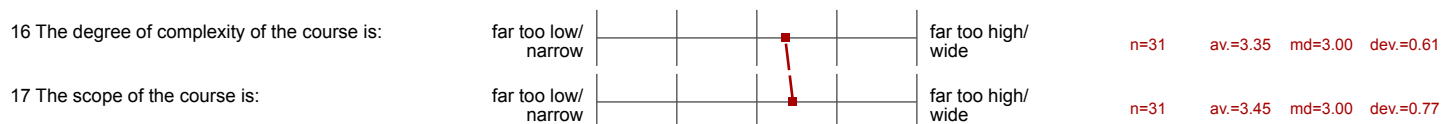
## Manners with Students



## Interest and Relevance



## Complexity and Scope



18 The pace of the course is:	far too low/ narrow		far too high/ wide	n=31	av.=3.23	md=3.00	dev.=0.50
19 The amount of knowledge presupposed by the course is:	far too low/ narrow		far too high/ wide	n=30	av.=3.10	md=3.00	dev.=0.66

### Overall Assessment

20 How would you grade the course as a whole?	1		6	n=31	av.=5.23	md=5.00	dev.=0.56
21 How would you grade the lecturer with regard to subject expertise?	1		6	n=32	av.=5.75	md=6.00	dev.=0.51
22 How would you grade the lecturer with regard to teaching methods?	1		6	n=31	av.=5.71	md=6.00	dev.=0.53

### Assessment of Individual Lectures

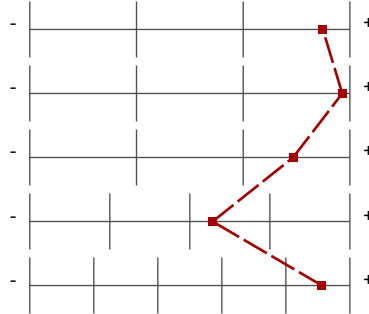
8.1 Introduction	strongly disagree		strongly agree	n=29	av.=2.55	md=2.00	dev.=0.69
8.2 Stack-based Programming	strongly disagree		strongly agree	n=31	av.=3.35	md=3.00	dev.=0.61
8.3 Functional Programming	strongly disagree		strongly agree	n=28	av.=3.43	md=3.50	dev.=0.63
8.4 Types and Polymorphism	strongly disagree		strongly agree	n=31	av.=3.29	md=3.00	dev.=0.69
8.5 Lambda Calculus	strongly disagree		strongly agree	n=29	av.=3.62	md=4.00	dev.=0.68
8.6 Fixed Points	strongly disagree		strongly agree	n=30	av.=3.23	md=3.00	dev.=0.90
8.7 Programming Language Semantics	strongly disagree		strongly agree	n=31	av.=3.03	md=3.00	dev.=0.80
8.8 Objects and Prototypes	strongly disagree		strongly agree	n=28	av.=3.29	md=3.00	dev.=0.71
8.9 Objects and Types	strongly disagree		strongly agree	n=29	av.=3.03	md=3.00	dev.=0.78
8.10 Logic Programming	strongly disagree		strongly agree	n=30	av.=3.47	md=4.00	dev.=0.68
8.11 Applications of Logic Programming	strongly disagree		strongly agree	n=30	av.=3.30	md=3.00	dev.=0.65
8.12 Visual Programming	strongly disagree		strongly agree	n=29	av.=2.14	md=2.00	dev.=0.74



# Profile Line for Indicators

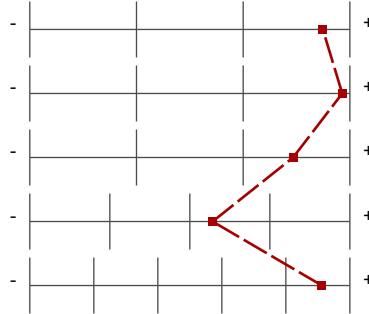
Subunit: Phil.-nat. Fakultät  
Name of the instructor: Prof. Dr. Oscar Marius Nierstrasz  
Name of the course: Programmiersprachen  
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**Planning and Presentation** (Skalenbreite: 4) ( $\alpha = 0.88$ )



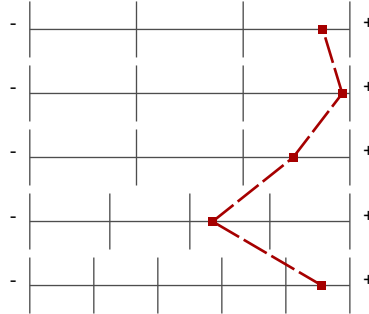
av.=3.75 dev.=0.50

**Manners with Students** (Skalenbreite: 4) ( $\alpha = 0.58$ )



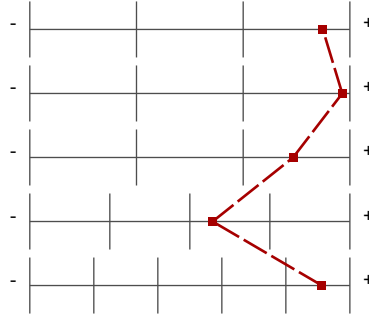
av.=3.93 dev.=0.20

**Interest and Relevance** (Skalenbreite: 4) ( $\alpha = 0.71$ )



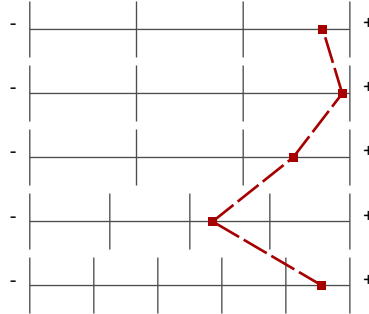
av.=3.47 dev.=0.57

**Complexity and Scope** (Skalenbreite: 5) ( $\alpha = 0.6$ )



av.=3.28 dev.=0.63

**Overall Assessment** (Skalenbreite: 6) ( $\alpha = 0.64$ )



av.=5.56 dev.=0.53

# Comments Report

## Open Questions

What did you like about the course?

I have learnt many things and my interest towards programming has also increased.

Great resources and easy to find with website.

The general overview of programming language in not that deep details is very usefull to understand general PL concepts.

good assignments, interesting topics

catch a glimpse of many languages I might otherwise not have touched

- many examples
- good slides
- clear explanations

Good overview over different paradigms

Diversity

The dive into the theory behind pl's and  $\lambda$  calculus.

good exercises esp. programming assignments

Very interesting. The topic itself didn't fascinate me at the beginning but by now, I'm really happy to have learned so much interesting stuff!

Broad range of topics.  
Focus on FP and lambda calculus. Piazza.

learning about topics which looks old and outdated sometimes, but provides a basic which i never had! & think was necessary

Broad overview  
Prolog is nice

- exercises refer to lecture
- support in piazza (for questions related to theory and practice)
- podcasts to relisten things if they were not clear during lecture
- closed-book exam (you learn more and ~~the questions are~~ better know what questions you can expect)

Examples

It is nice to see how programming languages evolved.

Good materials. Great lectures. Challenging Assignments

What did you not like about the course?

Sometimes, it happened, that only reading the course material, it was difficult to understand the topic.

The repetition from my experience from other school/class

Exercises were sometimes unclear, and hard to solve in a .txt file (e.g. Lambda calculus)

- questions in exercises not always clear
  - pace of correction low
  - only points as feedback - detailed feedback only on request
- } exercise-related stuff

Javascript :)

unclear exercises (sometimes)

Prolog, just <sup>not</sup> my cup of coffee.

ext. to much / deep theory

The exercises were sometimes not absolute ly clear.

Some exercises were "lackluster", especially after the FK stuff.  
Learning effect was not very good. E.g. Just create <sup>and LC</sup> objects in JS?

the postscript part was so vague for me. and chapter 9 was also full of ambiguity but my fault for not to ask more! (maybe)

The slides about subtyping not understandable enough, especially the type generator. Exam date (too early)

• the slides of the lecture "objects and types" were confusing. I am not sure if I have ~~to~~ understood the concept of subtyping right. what does it mean in general? what for OO-languages? what concreteness is ~~just~~ subtyping in Java? How is covariance / contravariance and record extension related to subtyping?

Last lecture I find not so important (VP)

It is good to get our hands in different programming languages, but it is hard to remember their syntax correctly.

Suggestions for improvements?

Would be nice to see more recent languages like D or # F#. Some ~~top~~ stuff in progress could be elaborated (e.g. capital letters required for args) but ~~more~~ also other features of the lang.

Look at Reactive Programming or/and DSL (intern / extern) within language like Scala or another one ...



- drop the lecture about visual programming } lecture related
- use two lectures on subtyping
- give (short) feedback on exercises (a sentence or two)

~~The course~~

Exercises should be handed out earlier and students should have possibility to discuss them in exercise-hours prior to deadline ✓ That ~~was~~<sup>would be</sup> very important to me

less topics ~~the~~ but ~~was~~ ~~the~~ ~~for~~ but ~~spend~~ ~~more~~ ~~time~~ ~~for~~ ~~the~~ ~~two~~

~~Make~~ Make the exercises clearer.

Put them online at least one week before hand-in. (Due to sickness I sometimes ~~had~~ had to do them in the middle of the night, while I felt ok.)

Sometimes wider content is only mentioned orally on M ~~to~~ notes - slides. I would ~~like~~ like to have it in real slides so that it is clear what we will talk about

More creative exercises.

Direct Feedback in git repo (Just a txt file)






dividing chapter 9 to two parts. specially the second half of the slides needs more explanation (or can be removed).

written explanations / examples for abstract constructs like the type generator

↓  
Maybe you could structure the slide in a different manner, add <sup>info</sup> ~~more~~ examples and a clear conclusion. <sup>give more</sup>

Giving Feedback of assignments as Pascal done on CP course #517.



	-						+	Ø	dev.
<b>Planning and Presentation</b> (Skalenbreite: 4)	0%	20%	40%	60%	80%	100%		3.75	0.5
							Scale width: 4		
<b>Manners with Students</b> (Skalenbreite: 4)	0%	20%	40%	60%	80%	100%		3.93	0.2
							Scale width: 4		
<b>Interest and Relevance</b> (Skalenbreite: 4)	0%	20%	40%	60%	80%	100%		3.47	0.57
							Scale width: 4		
<b>Complexity and Scope</b> (Skalenbreite: 5)	0%	20%	40%	60%	80%	100%		3.28	0.63
							Scale width: 5		
<b>Overall Assessment</b> (Skalenbreite: 6)	0%	20%	40%	60%	80%	100%		5.56	0.53
							Scale width: 6		

dev.=Std. Dev.