Prof. Dr. Oscar Nierstrasz (PERSÖNLICH)

Institut für Informatik und angewandte Mathematik
Neubrückstr. 10
3012 Bern

Auswertungsbericht Lehrveranstaltungsevaluation an die Lehrenden

Sehr geehrter Herr Prof. Dr. Nierstrasz

Sie erhalten hier die automatisierte Auswertung der Evaluation zur Veranstaltung 7133 Compiler Construction I.

Fragebogen Typ NVORLeCC. Es gilt Folgendes: Zuerst werden unter dem Titel Globalwerte die Mittelwerte der folgenden Skalen aufgeführt.

- Planning and Presentation
- Manners with Students
- Interest and Relevance
- Complexity and Scope
- Assessment of Individual Lectures

Im zweiten Teil des Auswertungsberichts werden die Ergebnisse zu den einzelnen Fragen und allenfalls Mittelwerte dazu aufgelistet.

Der Wert 1 kennzeichnet aus Sicht der Studierenden eine minimale Veranstaltungsgüte, der Wert 4 oder mehr eine maximale Veranstaltungsgüte. Bei invertierten Fragen sind die Werte für die Veranstaltungsgüte gerade umgekehrt.
Bei der Skala 'Schwierigkeit und Umfang' in den Standardfragebögen bezeichnet der Wert 3 (genau richtig) die optimale Veranstaltungsgüte.

Wir hoffen, dass Ihnen der Bericht von Nutzen ist. Bitte besprechen Sie das Ergebnis vor Semesterende kurz mit Ihren Studierenden.

Gerne besprechen die Mitarbeitenden der Gruppe Hochschuldidaktik (Kontakt: hd@zuw.unibe.ch) mit Ihnen Ihre Evaluationsergebnisse. Bringen Sie die ausgedruckten Berichte bitte zum Gespräch mit, da diese für die Hochschuldidaktik nicht zugänglich sind.

Falls Sie Verständnisfragen betreffend den Richtlinien und Abläufen haben, finden Sie Antworten unter www.qualitaet.unibe.ch/content/qualitaetssicherung_und__entwicklung_qse/lehre/evaluation_lehrveranstaltungen/index_ger.html.

Sie können uns auch per Mail kontaktieren, sollten Sie weitere Auskünfte benötigen.

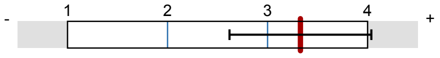
Mit freundlichen Grüssen
Daniela Wuillemin
Vizerektorat Qualität, Fachstelle Lehrevaluation

Prof. Dr. Oscar Nierstrasz

7133 Compiler Construction I (7133F)
Erfasste Fragebögen = 12

Globalwerte

1. Planning and Presentation



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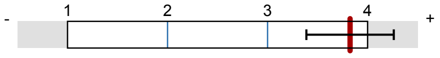
s=0,7

2. Manners with Students



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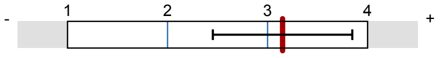
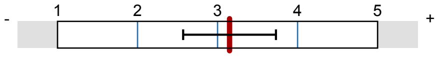
s=0,4

3. Interest and Relevance



mw=3,2
s=0,7

4. Complexity and Scope



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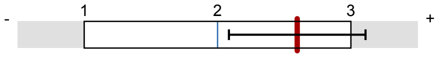
s=0,6

8. Assessment of Individual Lectures



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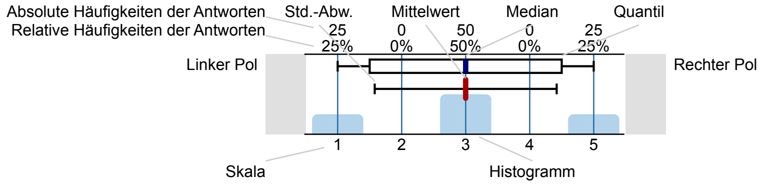
s=0,5

Legende

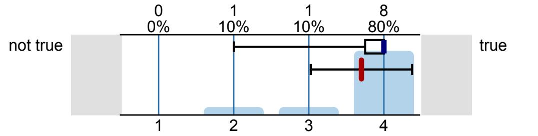
Fragetext



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

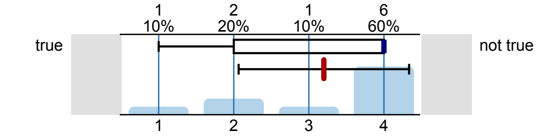
1. Planning and Presentation

1.1) The course follows a coherent structure.



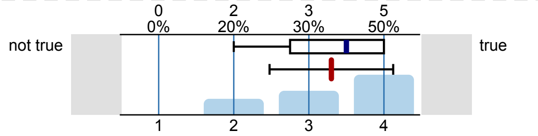
n=10
mw=3,7
md=4
s=0,7

1.2) The wider context of the subject matter is not sufficiently elucidated.



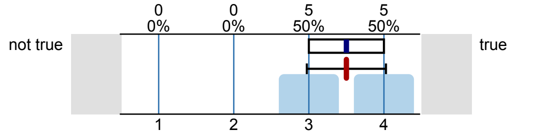
n=10
mw=3,2
md=4
s=1,1

1.3) The lecturer expresses him-/herself clearly and comprehensibly.



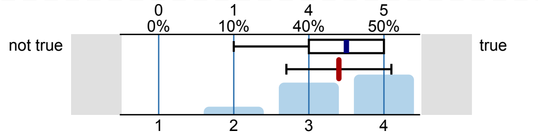
n=10
mw=3,3
md=3,5
s=0,8

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



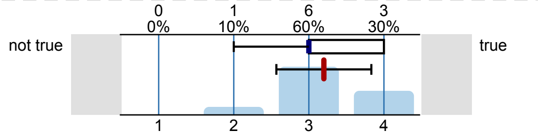
n=10
mw=3,5
md=3,5
s=0,5

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



n=10
mw=3,4
md=3,5
s=0,7

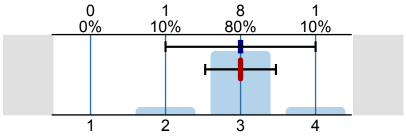
1.6) There is overall enough material provided to assist the learning process (slides, course material, hand-outs, etc.).



n=10
mw=3,2
md=3
s=0,6

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

not true



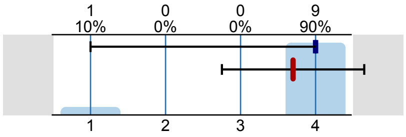
true

n=10
mw=3
md=3
s=0,5

2. Manners with Students

2.1) The lecturer takes students seriously.

not true

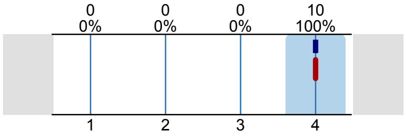


true

n=10
mw=3,7
md=4
s=0,9

2.2) The lecturer is friendly and respectful towards students.

not true

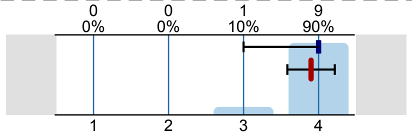


true

n=10
mw=4
md=4
s=0

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

not true

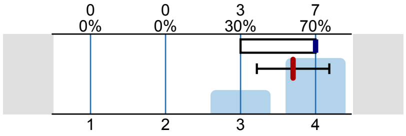


true

n=10
mw=3,9
md=4
s=0,3

2.4) The lecturer doesn't seem to care about his/her students' progress.

true



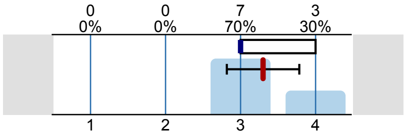
not true

n=10
mw=3,7
md=4
s=0,5

3. Interest and Relevance

3.1) The lecturer succeeds in making the course interesting.

not true

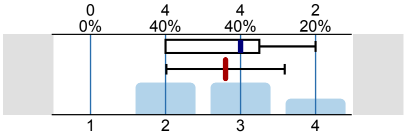


true

n=10
mw=3,3
md=3
s=0,5

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

not true

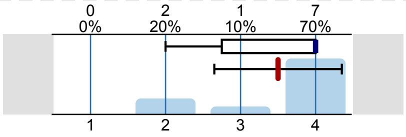


true

n=10
mw=2,8
md=3
s=0,8

3.3) The applicability and relevance of the subject matter is not sufficiently clarified by the lecturer.

true

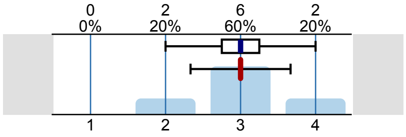


not true

n=10
mw=3,5
md=4
s=0,8

3.4) The lecturer fosters my interest in the subject.

not true



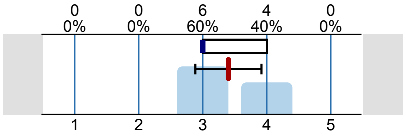
true

n=10
mw=3
md=3
s=0,7

4. Complexity and Scope

4.1) The degree of complexity of the course is:

far too low/narrow

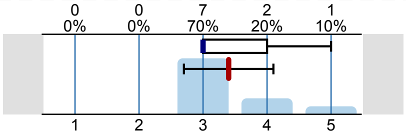


far too high/wide

n=10
mw=3,4
md=3
s=0,5

4.2) The scope of the course is:

far too low/narrow

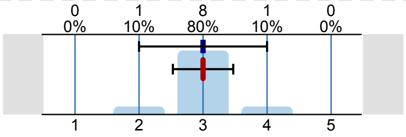


far too high/wide

n=10
mw=3,4
md=3
s=0,7

4.3) The pace of the course is:

far too low/narrow

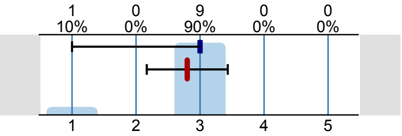


far too high/wide

n=10
mw=3
md=3
s=0,5

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

far too low/narrow



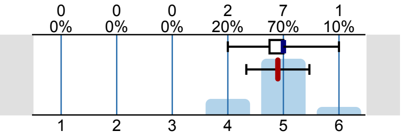
far too high/wide

n=10
mw=2,8
md=3
s=0,6

5. Overall Assessment

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

1

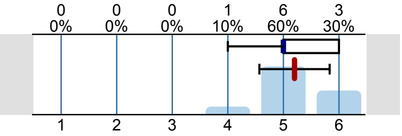


6

n=10
mw=4,9
md=5
s=0,6

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

1

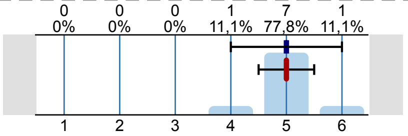


6

n=10
mw=5,2
md=5
s=0,6

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

1

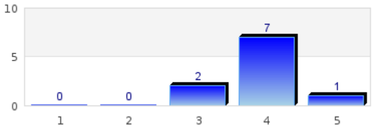


6

n=9
mw=5
md=5
s=0,5

5.4) The course has taught me

very little

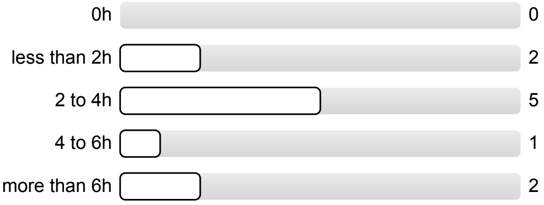


an awful lot

n=10
mw=3,9
md=4
s=0,6

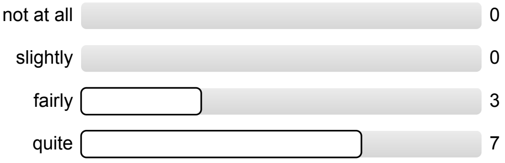
6. Sociodemographic Data and Background Variables

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



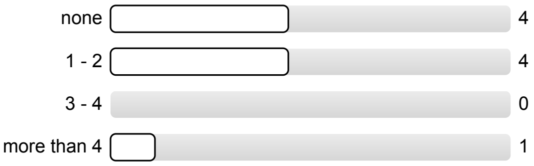
n=10

6.2) Was the topic of interest to you?



n=10

6.3) How many lectures did you miss?



n=9

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

n=1

lack of interest	0
course manual/required reading suffices for exam preparation	0
course overlap	0
other reasons	1
illness etc.	0

6.5) Allocation of the course in your study programme:

n=10

mono subject/Major/Hauptfach	9
Minor/Nebenfach	1
complementary of specialisation course	0

6.6) Your current number of semesters:

n=10

1	0
2	0
3	2
4	1
5	0
6	0
7	0
8	2
9	0
10	4
higher than 10	1

6.7) Sex:

n=9

female	1
male	8

7. Open questions

7.1) What did you like about the course?

- - Questions in slides (end) - stress on evaluation shows spirit for improval! - having to construct a compiler that works, learning some tools
- Creating a compiler is pretty cool :)
- It is a very intresting topic. The structure of the course seems very good.
- It was good that the book 'Modern Compiler Implementation' follows a similar structure, this makes it possible to look up the more complex parts or learn more about expected prerequisite knowledge.
- Lectuers
- Project. Well concerted with the course.
- Shows the whole pipeline from grammar to working executable.
- The topic compiler construction is really interesting. The true choice to implement an handrafted AST for minijava.

7.2) What did you not like about the course?

- - Feedback for exercises ('10/10') ~ code quality/smells? - too brief exercise session despite having seemingly experienced assistants here - Feedback sheet: hard to see which checkbox for which line

- It is a bit akward, when the professor does not understand his own slides. This makes following the lecture not so easy. The BCEL library has a very poor documentation.

- Maybe the grammar could be reduced a little. The project took too much time for my taste. Also, the BCEL documentation is lacking. It would have been nice to see examples, get an introduction to BCEL.

- Some slides seemed a bit 'thrown together'.

- The lecture is really time consuming (e.g.: BCEL Byte code generation) - for the last project (BCEL) there should be an exercise session - Chapter Semantic Analysis: please provide a better example of a symbol table (example in the slides is a toy example)

- The scope of the exercises/projects is so high, that it gets difficult to prepare/revise the lectures.

7.3) Suggestions for improvements?

- - Allow groups of three - Define 'prerequisite' reading that the students can prepare before the start of the semester so that they would then have more time to concentrate on the project.

- - Somebody might get lost during the course because they are beginner. - Instead of fixing lots of test cases, it would be nice if we can learn compliering code to multiple platforms.

- A little more informations on the course slides. When reviewing the slides, one often has to study the meaning of the slide, which besomes a bit tedious.

- Exercise Sessions

- Exercises: The complete grammar should be known in advance so we don't need to change/extend it in every project.

- I would have liked to know more about the «chicken and egg» problem of the first compiler and how that compiler was bootstrapped. It might make sense to introduce BCEL at the beginning of the project. That way, the BCEL representations of methods and classes can be used in the AST/CST and make byte code generation easier (also: types!).

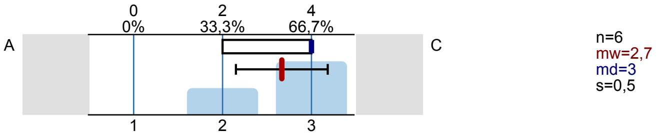
- Make the project smaller and add an exercise about PEG.

- Please! specify the whole grammar specs. at start. It is very annoying if you have to change the grammar (and all old visitors) several times along the way. (Not specified at start: >and<, ==)

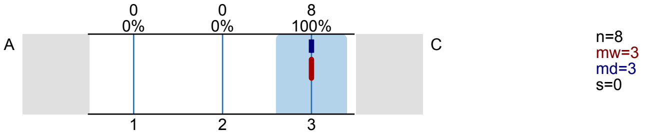
- See 'not like' + make algorithms in slides easier to read and more 'obviously correct'.

8. Assessment of Individual Lectures

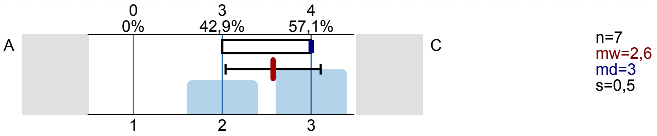
8.1) Introduction



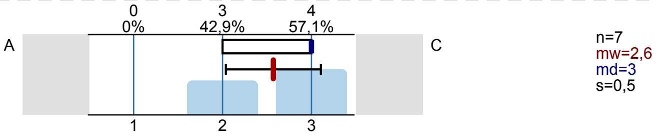
8.2) Lexical Analysis



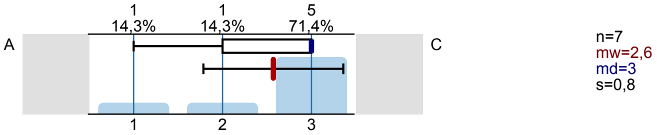
8.3) Parsing



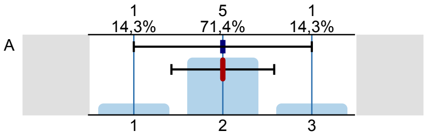
8.4) Parsing in Practice



8.5) Semantic Analysis

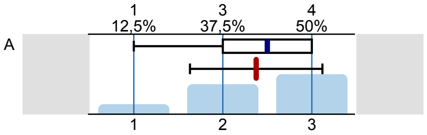


8.6) Intermediate Representation



n=7
mw=2
md=2
s=0,6

8.7) Optimization



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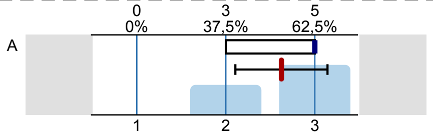
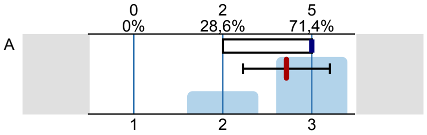
s=0,7

8.8) Code Generation



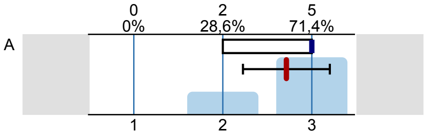
n=8
mw=2,6
md=3
s=0,5

8.9) Bytecode and Virtual Machines



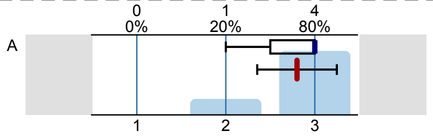
n=7
mw=2,7
md=3
s=0,5

8.10) PEGs, Packrats and Parser Combinators



n=7
mw=2,7
md=3
s=0,5

8.11) Program Transformation



n=5
mw=2,8
md=3
s=0,4

Profillinie

Teilbereich: Phil.-nat. Fakultät

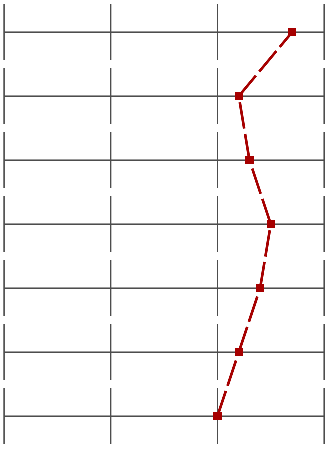
Name der/des Lehrenden: Prof. Dr. Oscar Nierstrasz

Titel der Lehrveranstaltung: (Name der Umfrage) 7133 Compiler Construction I

Verwendete Werte in der Profillinie: Mittelwert

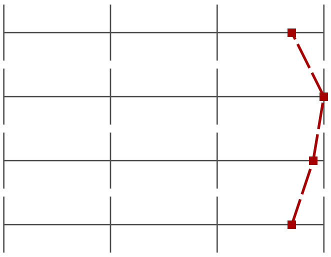
1. Planning and Presentation

1.1)	The course follows a coherent structure.	not true	true	n=10	mw=3,7 md=4,0 s=0,7
1.2)	The wider context of the subject matter is not sufficiently elucidated.	true	not true	n=10	mw=3,2 md=4,0 s=1,1
1.3)	The lecturer expresses him-/herself clearly and comprehensibly.	not true	true	n=10	mw=3,3 md=3,5 s=0,8
1.4)	The course provides an adequate overview of the subject matter treated.	not true	true	n=10	mw=3,5 md=3,5 s=0,5
1.5)	The design of the course contributes to an understanding of the subject matter.	not true	true	n=10	mw=3,4 md=3,5 s=0,7
1.6)	There is overall enough material provided to assist the learning process (slides, course material, hand-outs, etc.).	not true	true	n=10	mw=3,2 md=3,0 s=0,6
1.7)	The course materials (slides, course manuals, hand-outs, etc.) are overall of sufficient quality.	not true	true	n=10	mw=3,0 md=3,0 s=0,5



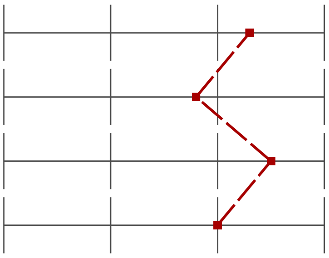
2. Manners with Students

2.1)	The lecturer takes students seriously.	not true	true	n=10	mw=3,7 md=4,0 s=0,9
2.2)	The lecturer is friendly and respectful towards students.	not true	true	n=10	mw=4,0 md=4,0 s=0,0
2.3)	The lecturer addresses questions and suggestions from students adequately.	not true	true	n=10	mw=3,9 md=4,0 s=0,3
2.4)	The lecturer doesn't seem to care about his/her students' progress.	not true	true	n=10	mw=3,7 md=4,0 s=0,5



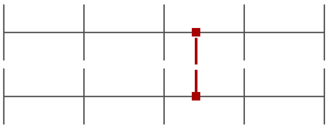
3. Interest and Relevance

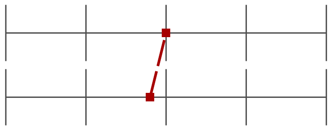
3.1)	The lecturer succeeds in making the course interesting.	not true	true	n=10	mw=3,3 md=3,0 s=0,5
3.2)	The course is probably very useful for my future professional life.	not true	true	n=10	mw=2,8 md=3,0 s=0,8
3.3)	The applicability and relevance of the subject matter is not sufficiently clarified by the lecturer.	true	not true	n=10	mw=3,5 md=4,0 s=0,8
3.4)	The lecturer fosters my interest in the subject.	not true	true	n=10	mw=3,0 md=3,0 s=0,7



4. Complexity and Scope

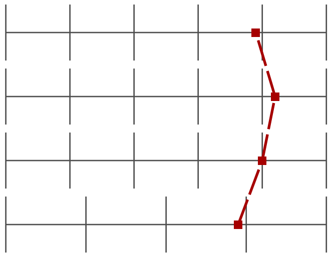
4.1)	The degree of complexity of the course is:	far too low/ narrow	far too high/ wide	n=10	mw=3,4 md=3,0 s=0,5
4.2)	The scope of the course is:	far too low/ narrow	far too high/ wide	n=10	mw=3,4 md=3,0 s=0,7





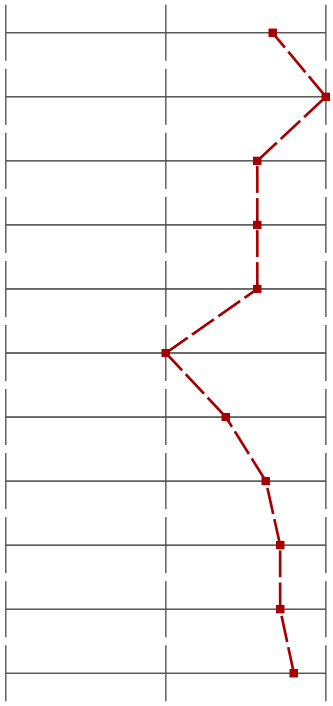
4.3)	The pace of the course is:	far too low/ narrow	far too high/ wide	n=10	mw=3,0 md=3,0 s=0,5
4.4)	The amount of knowledge presupposed by the course is:	far too low/ narrow	far too high/ wide	n=10	mw=2,8 md=3,0 s=0,6

5. Overall Assessment



5.1)	How would you grade the course as a whole?	1	6	n=10	mw=4,9 md=5,0 s=0,6
5.2)	How would you grade the lecturer with regard to subject expertise?	1	6	n=10	mw=5,2 md=5,0 s=0,6
5.3)	How would you grade the lecturer with regard to teaching methods?	1	6	n=9	mw=5,0 md=5,0 s=0,5
5.4)	The course has taught me	very little	an awful lot	n=10	mw=3,9 md=4,0 s=0,6

8. Assessment of Individual Lectures



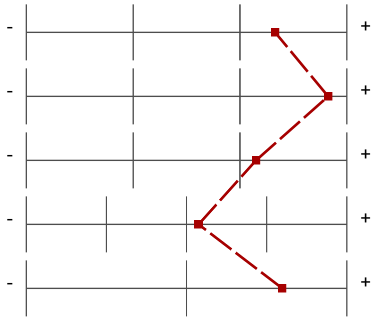
8.1)	Introduction	A	C	n=6	mw=2,7 md=3,0 s=0,5
8.2)	Lexical Analysis	A	C	n=8	mw=3,0 md=3,0 s=0,0
8.3)	Parsing	A	C	n=7	mw=2,6 md=3,0 s=0,5
8.4)	Parsing in Practice	A	C	n=7	mw=2,6 md=3,0 s=0,5
8.5)	Semantic Analysis	A	C	n=7	mw=2,6 md=3,0 s=0,8
8.6)	Intermediate Representation	A	C	n=7	mw=2,0 md=2,0 s=0,6
8.7)	Optimization	A	C	n=8	mw=2,4 md=2,5 s=0,7
8.8)	Code Generation	A	C	n=8	mw=2,6 md=3,0 s=0,5
8.9)	Bytecode and Virtual Machines	A	C	n=7	mw=2,7 md=3,0 s=0,5
8.10)	PEGs, Packrats and Parser Combinators	A	C	n=7	mw=2,7 md=3,0 s=0,5
8.11)	Program Transformation	A	C	n=5	mw=2,8 md=3,0 s=0,4

Profillinie

Teilbereich: Phil.-nat. Fakultät

Name der/des Lehrenden: Prof. Dr. Oscar Nierstrasz

Titel der Lehrveranstaltung: (Name der Umfrage) 7133 Compiler Construction I

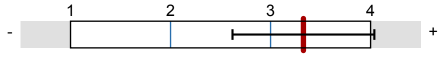


1. Planning and Presentation	mw=3,3	s=0,7
2. Manners with Students	mw=3,8	s=0,4
3. Interest and Relevance	mw=3,2	s=0,7
4. Complexity and Scope	mw=3,2	s=0,6
8. Assessment of Individual Lectures	mw=2,6	s=0,5

Präsentationsvorlage

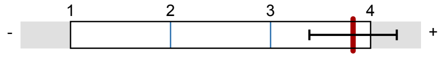
7133 Compiler Construction I
Prof. Dr. Oscar Nierstrasz
Erfasste Fragebögen = 12

1. Planning and Presentation



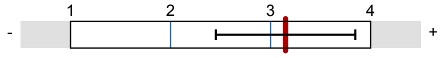
mw=3,3

2. Manners with Students



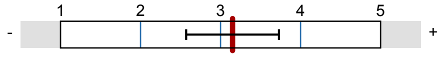
mw=3,8

3. Interest and Relevance



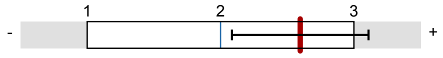
mw=3,2

4. Complexity and Scope



mw=3,2

8. Assessment of Individual Lectures



mw=2,6