Hochschule Bremen
Zentrum für Lehren und Lernen

EvaSys Dr. Kathrin Prümm

Dear Prof. Dr.-Ing. Sven Oppermann (as private and confidential)

# Evaluation report of the course evaluation

Dear Prof. Dr.-Ing. Oppermann

Please find here your evaluation results for Advanced Computer Based Mathematics (course ID: ss22_M080)
Period: SoSe 22
Program of study:AT

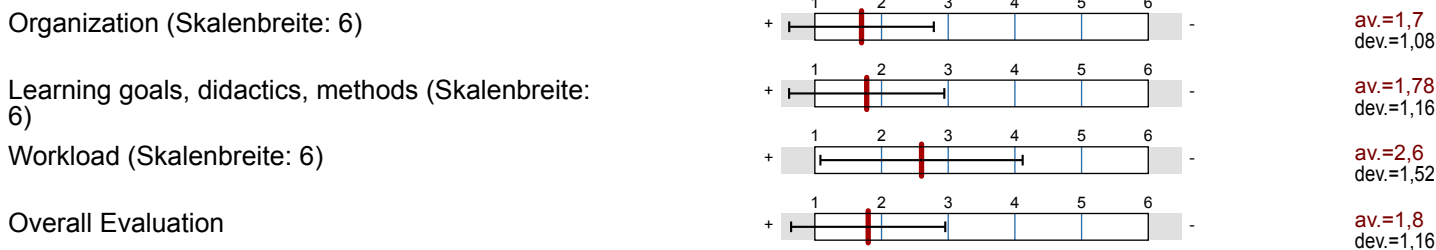If you have any questions, please do not hesitate to contact us.

Kind regards

Evaluation Team

Zentrum für Lehren und Lernen
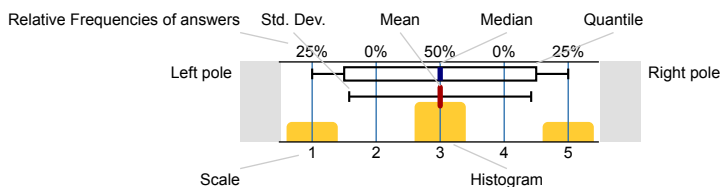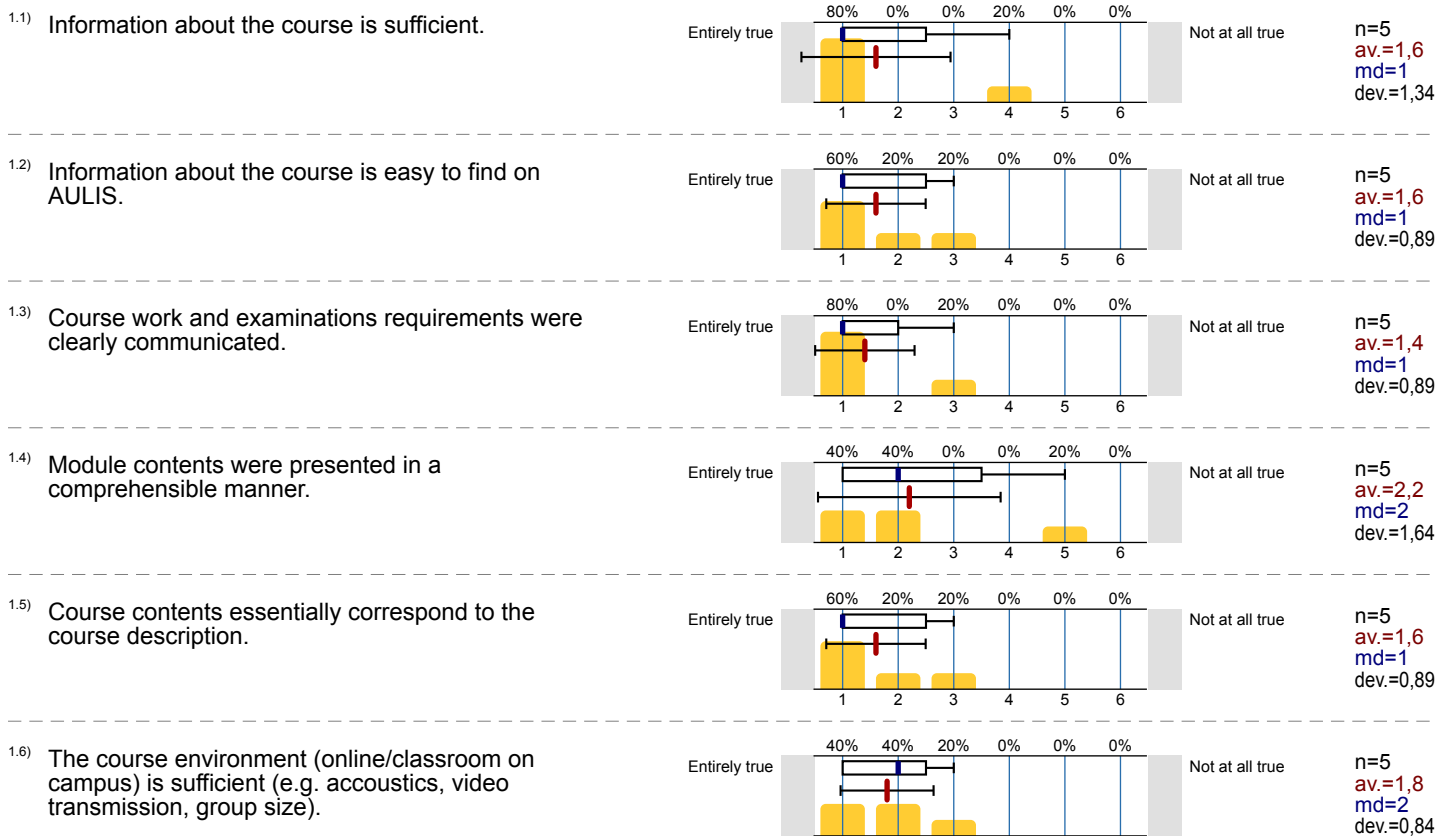Centre for Teaching and Learning

# Prof. Dr.-Ing. Sven Oppermann
Advanced Computer Based Mathematics (ss22_M080)
No. of responses = 5

**HSB**

## Overall indicators

**Organization (Skalenbreite: 6)**
av.=1,7
dev.=1,08

**Learning goals, didactics, methods (Skalenbreite: 6)**
av.=1,78
dev.=1,16

**Workload (Skalenbreite: 6)**
av.=2,6
dev.=1,52

**Overall Evaluation**
av.=1,8
dev.=1,16

## Survey Results

### Legend

Relative Frequencies of answers   Std. Dev.   Mean   Median   Quantile

Question text

Left pole / Right pole

Scale   Histogram

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

## 1. Organization

**1.1) Information about the course is sufficient.**
Entirely true — Not at all true
80% 0% 0% 20% 0% 0%
n=5
av.=1,6
md=1
dev.=1,34

**1.2) Information about the course is easy to find on AULIS.**
Entirely true — Not at all true
60% 20% 20% 0% 0% 0%
n=5
av.=1,6
md=1
dev.=0,89

**1.3) Course work and examinations requirements were clearly communicated.**
Entirely true — Not at all true
80% 0% 20% 0% 0% 0%
n=5
av.=1,4
md=1
dev.=0,89

**1.4) Module contents were presented in a comprehensible manner.**
Entirely true — Not at all true
40% 40% 0% 0% 20% 0%
n=5
av.=2,2
md=2
dev.=1,64

**1.5) Course contents essentially correspond to the course description.**
Entirely true — Not at all true
60% 20% 20% 0% 0% 0%
n=5
av.=1,6
md=1
dev.=0,89

**1.6) The course environment (online/classroom on campus) is sufficient (e.g. accoustics, video transmission, group size).**
Entirely true — Not at all true
40% 40% 20% 0% 0% 0%
n=5
av.=1,8
md=2
dev.=0,84

## 2. Learning goals, didactics, methods

**2.1)** The course follows a comprehensible semester structure plan (central theme).

Entirely true — 80% 0% 0% 0% 20% 0% — Not at all true

n=5
av.=1,8
md=1
dev.=1,79

**2.2)** The course motivated me to deal with the contents.

Entirely true — 0% 80% 0% 0% 20% 0% — Not at all true

n=5
av.=2,6
md=2
dev.=1,34

**2.3)** Students questions are adequately addressed.

Entirely true — 80% 20% 0% 0% 0% 0% — Not at all true

n=5
av.=1,2
md=1
dev.=0,45

**2.4)** I feel adequately supported.

Entirely true — 80% 0% 0% 20% 0% 0% — Not at all true

n=5
av.=1,6
md=1
dev.=1,34

**2.5)** I have no difficulty understanding the contents.

Entirely true — 40% 40% 0% 0% 0% 20% — Not at all true

n=5
av.=2,4
md=2
dev.=2,07

**2.6)** Learning materials readily available.

Entirely true — 60% 20% 20% 0% 0% 0% — Not at all true

n=5
av.=1,6
md=1
dev.=0,89

**2.7)** Accompanying and learning materials help to understand the content of lectures.

Entirely true — 40% 40% 20% 0% 0% 0% — Not at all true

n=5
av.=1,8
md=2
dev.=0,84

**2.8)** The teaching during the course facilitates independent study.

Entirely true — 80% 20% 0% 0% 0% 0% — Not at all true

n=5
av.=1,2
md=1
dev.=0,45

**2.9)** I can see a connection between the course and the goal of my studies.

Entirely true — 60% 20% 0% 20% 0% 0% — Not at all true

n=5
av.=1,8
md=1
dev.=1,3

## 3. Workload

**3.1)** My weekly time expenditure for the course is approximately (online teaching included):

| | |
|---|---|
| 1-2 hours | 0% |
| 3-5 hours | 25% |
| 6-8 hours | 75% |
| > 8 hours | 0% |

n=4

**3.2)** My workload for the module is reasonable.

Entirely true — 20% 40% 20% 0% 20% 0% — Not at all true

n=5
av.=2,6
md=2
dev.=1,52

## 4. Own learning behaviour

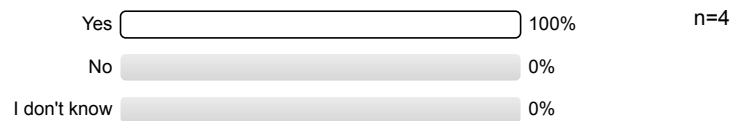4.1) I attended the course regularly (more than half of the meetings).

| | | |
|---|---|---|
| Yes | | 100% |
| No | | 0% |
| N/A | | 0% |

n=5
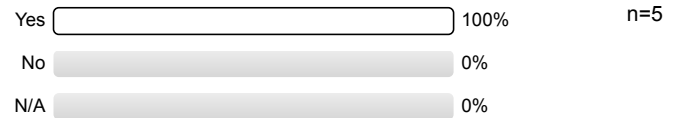
4.3) I joined a learning group this semester.

| | | |
|---|---|---|
| Yes | | 25% |
| No | | 75% |
| N/A | | 0% |

n=4

## 5. Remarks

5.1) The teacher ensures a respectful and gender-equal social interaction in the course.

| | | |
|---|---|---|
| Yes | | 100% |
| No | | 0% |
| I don't know | | 0% |

n=4

# Profile

## 1. Organization

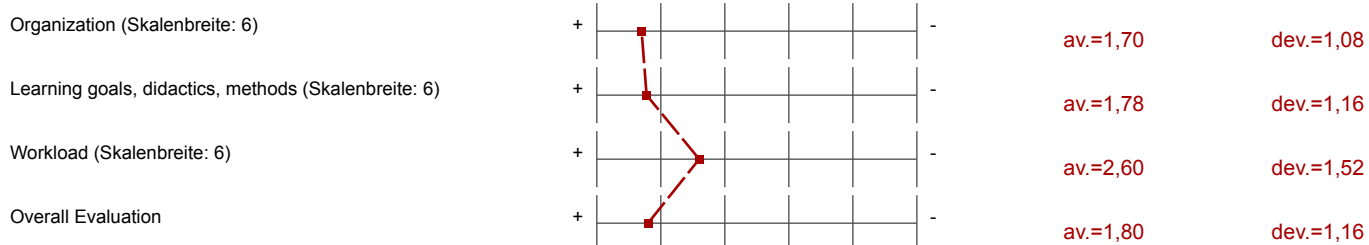| 1.1) | Information about the course is sufficient. | Entirely true | | Not at all true | n=5 | av.=1,60 | md=1,00 | dev.=1,34 |
| 1.2) | Information about the course is easy to find on AULIS. | Entirely true | | Not at all true | n=5 | av.=1,60 | md=1,00 | dev.=0,89 |
| 1.3) | Course work and examinations requirements were clearly communicated. | Entirely true | | Not at all true | n=5 | av.=1,40 | md=1,00 | dev.=0,89 |
| 1.4) | Module contents were presented in a comprehensible manner. | Entirely true | | Not at all true | n=5 | av.=2,20 | md=2,00 | dev.=1,64 |
| 1.5) | Course contents essentially correspond to the course description. | Entirely true | | Not at all true | n=5 | av.=1,60 | md=1,00 | dev.=0,89 |
| 1.6) | The course environment (online/classroom on campus) is sufficient (e.g. accoustics, video transmission, group size). | Entirely true | | Not at all true | n=5 | av.=1,80 | md=2,00 | dev.=0,84 |

## 2. Learning goals, didactics, methods

| 2.1) | The course follows a comprehensible semester structure plan (central theme). | Entirely true | | Not at all true | n=5 | av.=1,80 | md=1,00 | dev.=1,79 |
| 2.2) | The course motivated me to deal with the contents. | Entirely true | | Not at all true | n=5 | av.=2,60 | md=2,00 | dev.=1,34 |
| 2.3) | Students questions are adequately addressed. | Entirely true | | Not at all true | n=5 | av.=1,20 | md=1,00 | dev.=0,45 |
| 2.4) | I feel adequately supported. | Entirely true | | Not at all true | n=5 | av.=1,60 | md=1,00 | dev.=1,34 |
| 2.5) | I have no difficulty understanding the contents. | Entirely true | | Not at all true | n=5 | av.=2,40 | md=2,00 | dev.=2,07 |
| 2.6) | Learning materials readily available. | Entirely true | | Not at all true | n=5 | av.=1,60 | md=1,00 | dev.=0,89 |
| 2.7) | Accompanying and learning materials help to understand the content of lectures. | Entirely true | | Not at all true | n=5 | av.=1,80 | md=2,00 | dev.=0,84 |
| 2.8) | The teaching during the course facilitates independent study. | Entirely true | | Not at all true | n=5 | av.=1,20 | md=1,00 | dev.=0,45 |
| 2.9) | I can see a connection between the course and the goal of my studies. | Entirely true | | Not at all true | n=5 | av.=1,80 | md=1,00 | dev.=1,30 |

## 3. Workload

| 3.2) | My workload for the module is reasonable. | Entirely true | | Not at all true | n=5 | av.=2,60 | md=2,00 | dev.=1,52 |

# Profile Line for Indicators

Subunit: Fak 5 Maschb.
Name of the instructor: Prof. Dr.-Ing. Sven Oppermann
Name of the course: Advanced Computer Based Mathematics
(Name of the survey)

| | | |
|---|---|---|
| Organization (Skalenbreite: 6) | av.=1,70 | dev.=1,08 |
| Learning goals, didactics, methods (Skalenbreite: 6) | av.=1,78 | dev.=1,16 |
| Workload (Skalenbreite: 6) | av.=2,60 | dev.=1,52 |
| Overall Evaluation | av.=1,80 | dev.=1,16 |

# Comments Report

## 4. Own learning behaviour

4.2) In case that you have not participated regularly in the course, please explain why...

The evaluation will not be displayed due to low response rate.

4.4) How did you manage to meet?

■ We met the first day of the lecture, when the working group were setp up spontaneously by students when prompted by the Professor.

■ online / in person

## 5. Remarks

5.2) What in particular went well during this course?

■ Explanations were given very clearly and understandable. If something was still unsure there were no difficulties to ask for further explanations. It was a nice and fun environment. :)

■ It is always a good feeling to finally get something going in Matlab. The way to get there is just very, very hard.

■ The Professor is really always in a good mood, ready to help his students and this is really enjoyable. This attitude gives the motivation to have interests into the lectures and practice along the semester and I really appreciated this aspect. Also the teaching method is the right one for Master students. Some changes may be implemented but so far, the course gives a full overview of the capabilities of solving mathematical, physics problems on MATLAB.

5.3) What do you think could be improved next semester?

■ For M.Sc. Aerospace Technologies students, I would have expected more examples related to space/aeronautics use cases such as implementation of Kalman Filter, which is widely used in the industry. Some lectures topics are directed into this direction of pushing further the subject. However, for some of them, having a full length study and application of the algorithms would allow the students to be more autonomous on how to implement the mathematical solution to a problem. Just to highligh one example I have in mind: maximization or minimization problems could be applied to a mechanical problem or SVD to the study of a real correlation problem on an exoplanetes database. Also, why not sometimes offering to work on Python as well? All these are just suggestion, the course is also providing all the knowledge necessary for the correct acquisition of the competencies set.

■ Imo the workload of some tasks is to much. It is quite discouraging to see a task with 10-20 subtasks. Some of the earlier topics had a better amount of work, and especially considering that other moduls also increase the time needed to get everything done during the later parts of the semester (INTP as the main example, but others aswell), time management becomes a real issue.
Maybe it is because this semester is especially short, if so, that should be considered when defining the amount of work.