EvaS Frankfurt University of Applied Sciences

Prof. Dr. Prof. Dr. Christian Baun
(as private and confidential)

Report course evaluation

Dear Prof. Dr. Prof. Dr. Christian Baun,

this report contains the results of the course evaluation for Master Project AI-Drones to questionnaire type "LVE_sem_e3":

In the first part of the analysis report the values of all individual questions are listed. Then you can find the individual average values of the scales specified in a line.

In the last part are the answers to the open-ended questions.

Please let us know if you have questions or suggestions for improvement for the evaluation (evas@fra-uas.de)

Yours
EvaS Team
Frankfurt UAS

Prof. Dr. Prof. Dr. Christian Baun
## Master Project AI-Drones (sose25_2_X16_1)
No. of responses = 11

EvaS
Evaluations
Service
FRA-UAS

Survey Results

Legend
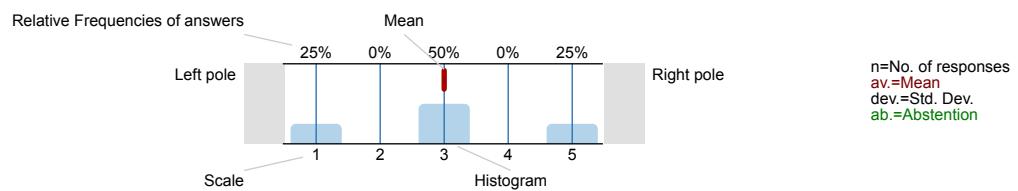
Relative Frequencies of answers   Mean

	25%	0%	50%	0%	25%	
Left pole						Right pole

Scale   1 2 3 4 5   Histogram

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

Question text

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1. Please specify how far you agree or disagree with the following statements concerning this course. Please cross only one box.

**1.1)** The structure of the course content is logical/ comprehensible.

fully agree — 63,6% 27,3% 0% 9,1% 0% 0% — fully disagree
Scale: 1 2 3 4 5 6
n=11
av.=1,5
dev.=0,9

1.2) The lecturer is able to make complex contents comprehensible.

fully agree — 54,5% 36,4% 9,1% 0% 0% 0% — fully disagree
Scale: 1 2 3 4 5 6
n=11
av.=1,5
dev.=0,7

1.3) The course is taught in an interesting way.

fully agree — 63,6% 36,4% 0% 0% 0% 0% — fully disagree
Scale: 1 2 3 4 5 6
n=11
av.=1,4
dev.=0,5
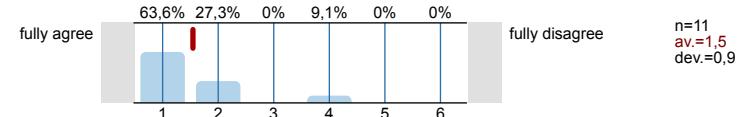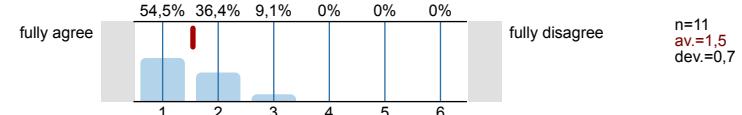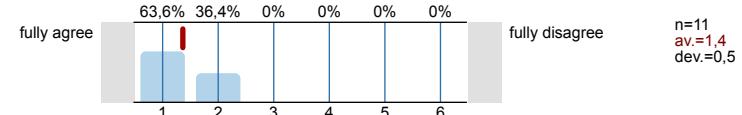
1.4) Discussions are well moderated (stimulation of contributions, thoroughness in answering to contributions, timing, halting of non-stop talkers).
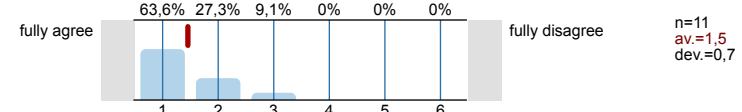
fully agree — 63,6% 27,3% 9,1% 0% 0% 0% — fully disagree
Scale: 1 2 3 4 5 6
n=11
av.=1,5
dev.=0,7

1.5) There is sufficient discussion/ there is enough opportunity for questions.

fully agree — 100% 0% 0% 0% 0% 0% — fully disagree
Scale: 1 2 3 4 5 6
n=9
av.=1
dev.=0

1.6) The course enhances my interest in my studies.

fully agree — 81,8% 9,1% 0% 0% 9,1% 0% — fully disagree
Scale: 1 2 3 4 5 6
n=11
av.=1,5
dev.=1,2

1.7) The accompanying materials (scripts, bibliographies, internet, etc.) are helpful

fully agree — 50% 20% 30% 0% 0% 0% — fully disagree
Scale: 1 2 3 4 5 6
n=10
av.=1,8
dev.=0,9

1.8) The lecturer is sufficiently reachable outside the course times as well.

fully agree — 100% 0% 0% 0% 0% 0% — fully disagree
Scale: 1 2 3 4 5 6
n=7
av.=1
dev.=0
ab.=3

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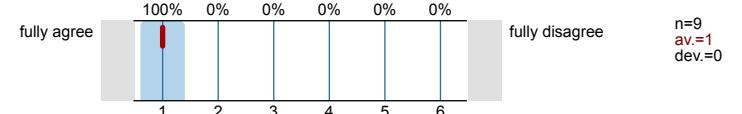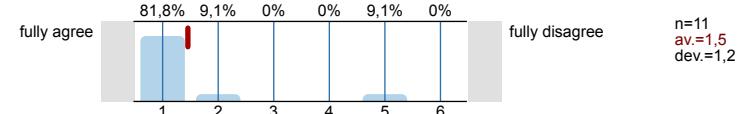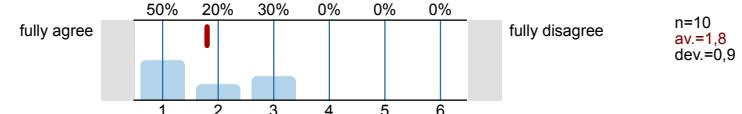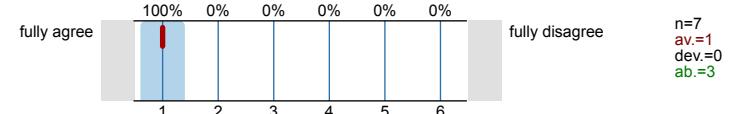
2. Assessment of knowledge gains

The topic of the module/ unit is interesting to me.

**2.1)** This is my assessment <u>after</u> the module/ unit.

fully agree   80%   20%   0%   0%   0%   0%   fully disagree

n=10
av.=1,2
dev.=0,4

2.2) This is my assessment <u>before</u> the module/ unit.

fully agree   27,3%   36,4%   18,2%   18,2%   0%   0%   fully disagree

n=11
av.=2,3
dev.=1,1
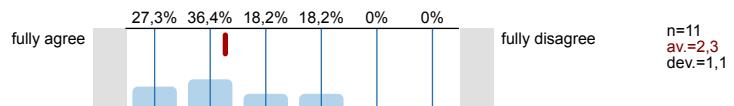
I know a lot about the topic of the module/ unit.

2.3) This is my assessment <u>after</u> the module/ unit.

fully agree   50%   20%   0%   20%   0%   10%   fully disagree

n=10
av.=2,3
dev.=1,8

2.4) This is my assessment <u>before</u> the module/ unit.

fully agree   20%   0%   30%   20%   10%   20%   fully disagree

n=10
av.=3,6
dev.=1,8
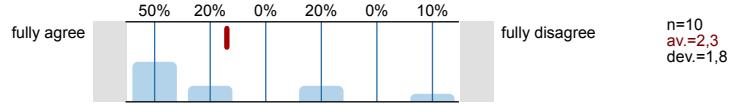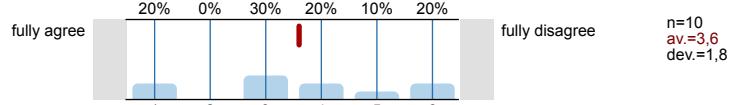
I can apply the content of the module/ unit.

2.5) This is my assessment <u>after</u> the module/ unit.
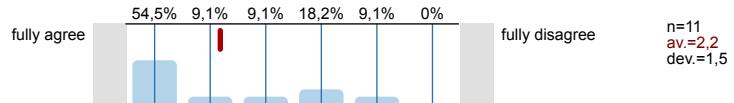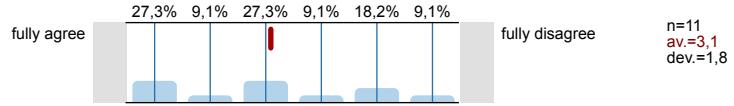
fully agree   54,5%   9,1%   9,1%   18,2%   9,1%   0%   fully disagree

n=11
av.=2,2
dev.=1,5

2.6) This is my assessment <u>before</u> the module/ unit.

fully agree   27,3%   9,1%   27,3%   9,1%   18,2%   9,1%   fully disagree

n=11
av.=3,1
dev.=1,8

3. Requirements and Workload

3.1) Was your previous knowledge sufficient to follow the course?

too little   0%   9,1%   18,2%   18,2%   18,2%   36,4%   fully sufficient

n=11
av.=4,5
dev.=1,4

3.2) How many lectures/ seminars did you attend?

0% (none   0%   0%   0%   0%   18,2%   81,8%   100% (all)

n=11
av.=5,8
dev.=0,4

3.3) How would you evaluate the required preparatory work in relationship to the module content?

low   0%   0%   10%   20%   50%   20%   high

n=10
av.=4,8
dev.=0,9

3.4) The workload corresponds to the ECTS earned in the module/ unit (1 ECTS = 30 hours)

fully agree   66,7%   11,1%   11,1%   0%   11,1%   0%   fully disagree

n=9
av.=1,8
dev.=1,4
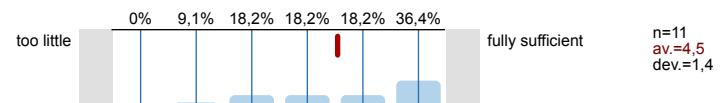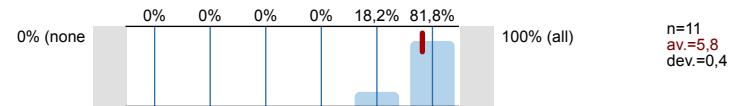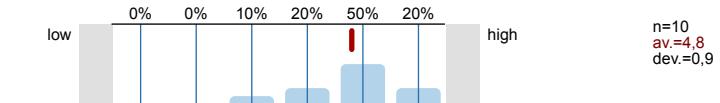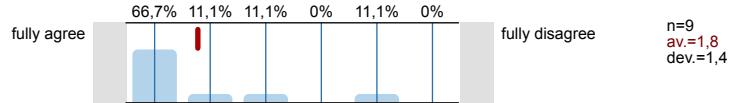
3.5) How much time do you spend per week for preparatioon and homework for this course?
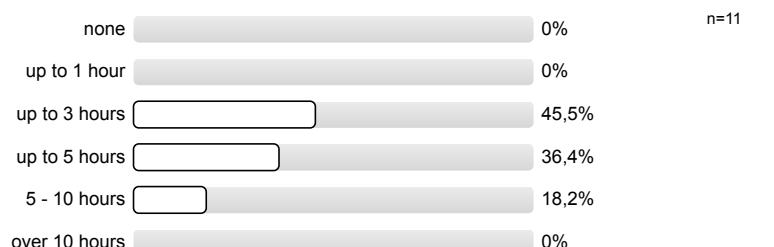
|	
none	0%
up to 1 hour	0%
up to 3 hours	45,5%
up to 5 hours	36,4%
5 - 10 hours	18,2%
over 10 hours	0%

n=11

4. Student contribution to the teaching quality and general conditions

4.1) Fidgeting, chatting, and disturbances of participants interfere with the course.

fully agree | 20% 0% 0% 0% 30% 50% | fully disagree
1 2 3 4 5 6

n=10
av.=4,7
dev.=2

4.2) The students contributed to a productive working atmosphere.

fully agree | 90% 10% 0% 0% 0% 0% | fully disagree
1 2 3 4 5 6

n=10
av.=1,1
dev.=0,3

4.3) The spatial conditions of the event are appropriate.

fully agree | 60% 40% 0% 0% 0% 0% | fully disagree
1 2 3 4 5 6

n=10
av.=1,4
dev.=0,5

5. A few more things we would like you to tell us...

5.1) Which grade would you give this module/ unit

Excellent (1) | 60% 40% 0% 0% 0% 0% | Very poor (6)
1 2 3 4 5 6

n=10
av.=1,4
dev.=0,5
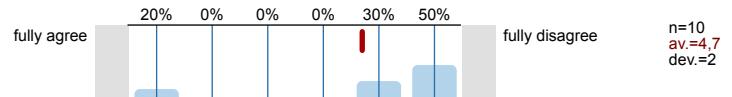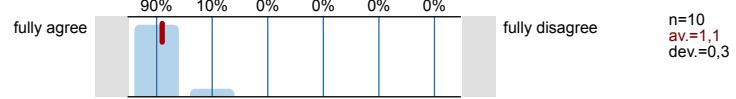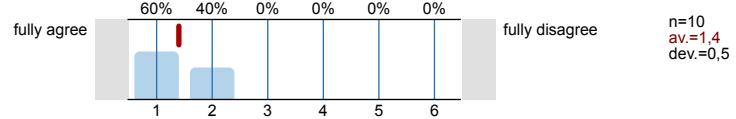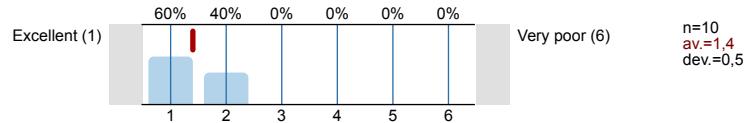
5.2) Are you an exchange student?

Yes — 0%
No — 100%

n=11

Profile

Subunit: **Fb 2 LV-Evaluation**
Name of the instructor: **Prof. Dr. Prof. Dr. Christian Baun**
Name of the course: **Master Project AI-Drones**
(Name of the survey)

Values used in the profile line: Mean

1. Please specify how far you agree or disagree with the following statements concerning this course. Please cross only one box.

|					
1.1)	The structure of the course content is logical/ comprehensible.	fully agree — fully disagree	n=11	av.=1,5	md=1	dev.=0,9
1.2)	The lecturer is able to make complex contents comprehensible.	fully agree — fully disagree	n=11	av.=1,5	md=1	dev.=0,7
1.3)	The course is taught in an interesting way.	fully agree — fully disagree	n=11	av.=1,4	md=1	dev.=0,5
1.4)	Discussions are well moderated (stimulation of contributions, thoroughness in answering to contributions, timing, halting of non-stop	fully agree — fully disagree	n=11	av.=1,5	md=1	dev.=0,7
1.5)	There is sufficient discussion/ there is enough opportunity for questions.	fully agree — fully disagree	n=9	av.=1	md=1	dev.=0
1.6)	The course enhances my interest in my studies.	fully agree — fully disagree	n=11	av.=1,5	md=1	dev.=1,2
1.7)	The accompanying materials (scripts, bibliographies, internet, etc.) are helpful	fully agree — fully disagree	n=10	av.=1,8	md=1,5	dev.=0,9
1.8)	The lecturer is sufficiently reachable outside the course times as well.	fully agree — fully disagree	n=7	av.=1	md=1	dev.=0

2. Assessment of knowledge gains

2.1)	**The topic of the module/ unit is interesting to me.** - This is my assessment <u>after</u> the module/ unit.	fully agree — fully disagree	n=10	av.=1,2	md=1	dev.=0,4
2.2)	**The topic of the module/ unit is interesting to me.** - This is my assessment <u>before</u> the module/	fully agree — fully disagree	n=11	av.=2,3	md=2	dev.=1,1
2.3)	**I know a lot about the topic of the module/ unit.** - This is my assessment <u>after</u> the module/ unit.	fully agree — fully disagree	n=10	av.=2,3	md=1,5	dev.=1,8
2.4)	**I know a lot about the topic of the module/ unit.** - This is my assessment <u>before</u> the module/ unit.	fully agree — fully disagree	n=10	av.=3,6	md=3,5	dev.=1,8
2.5)	**I can apply the content of the module/ unit.** - This is my assessment <u>after</u> the module/ unit.	fully agree — fully disagree	n=11	av.=2,2	md=1	dev.=1,5
2.6)	**I can apply the content of the module/ unit.** - This is my assessment <u>before</u> the module/ unit.	fully agree — fully disagree	n=11	av.=3,1	md=3	dev.=1,8

3. Requirements and Workload

|					
3.1)	Was your previous knowledge sufficient to follow the course?	too little — fully sufficient	n=11	av.=4,5	md=5	dev.=1,4
3.2)	How many lectures/ seminars did you attend?	0% (none) — 100% (all)	n=11	av.=5,8	md=6	dev.=0,4
3.3)	How would you evaluate the required preparatory work in relationship to the module content?	low — high	n=10	av.=4,8	md=5	dev.=0,9
3.4)	The workload corresponds to the ECTS earned in the module/ unit (1 ECTS = 30 hours)	fully agree — fully disagree	n=9	av.=1,8	md=1	dev.=1,4

4. Student contribution to the teaching quality and general conditions

4.1)	Fidgeting, chatting, and disturbances of participants interfere with the course.	fully agree —————————— fully disagree	n=10	av.=4,7 md=5,5 dev.=2
4.2)	The students contributed to a productive working atmosphere.	fully agree —————————— fully disagree	n=10	av.=1,1 md=1 dev.=0,3
4.3)	The spatial conditions of the event are appropriate.	fully agree —————————— fully disagree	n=10	av.=1,4 md=1 dev.=0,5

5. A few more things we would like you to tell us...

5.1)	Which grade would you give this module/ unit	Excellent (1) —————————— Very poor (6)	n=10	av.=1,4 md=1 dev.=0,5

Outcome-based evaluation

Statements to be rated	low ← Level of agreement → high	Percentage of students		CSA Gain
2. Assessment of knowledge gains				
The topic of the module/ unit is interesting to me.			pre / post	83,33%
I know a lot about the topic of the module/ unit.			pre / post	50%
I can apply the content of the module/ unit.			pre / post	43,48%

Time of survey
■ before the course
□ after the course

Perceived knowledge/ ability
■ low (6)
■ high (1)

Data presentation adapted from Raupach et al. Med Teach 2011; 33: e446-ee453.
Error bars indicate standard errors of the mean.

Comments Report

5. A few more things we would like you to tell us...

5.3) What did you especially like about this course?

The practice part

More examples of code and possibilitys

To be able to build a drone and test the software part with an actual hardware project.

The freedom in approach / choice of solution to build

The is a nice combination of ~~first write~~ practical work, investigation and documentation. and we can ~~im~~ imidiatly experience ~~the~~ visually , what we did.

This course is really interesting. I have acquired many new technological knowledge specially hardware and software syncronization. FPV is really fun and challenging. AI intrigation is also very interesting.

5.4) Your suggestions for improvement:

No suggestions at all.

More specifications and an actual goal for the project.

~~to~~ It would be better if we could have people from dron industry come to us and give us ~~their or~~ some of their experience.

Adopting more sensor like LIDAR, BAROMETER to ~~@~~ improving Autopilot feature. it will be more effective.