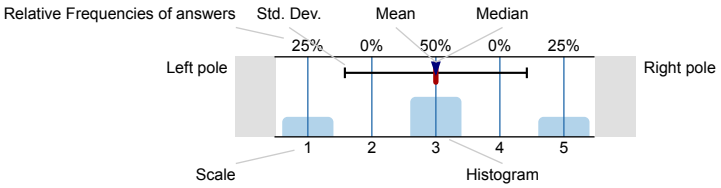
Dr.-Ing. Mohammad Hamad

IoT Security - Lecture - VL (WS 22/23)
Erfasste Fragebögen = 19

Survey Results

Legend

Question text



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

Organization and Curriculum

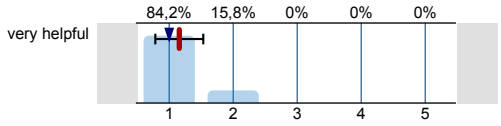
How often have you used digitally provided materials in this couse (e.g. videos, presentations, scripts)?

n=18

never	0%
seldom	0%
now and then	5.6%
regularly	88.9%
not applicable	5.6%

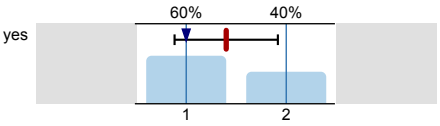
Currently, various digital teaching tools are being used. Below is a list of such tools. How do you evaluate the use of the **tools in this course**:

moodle



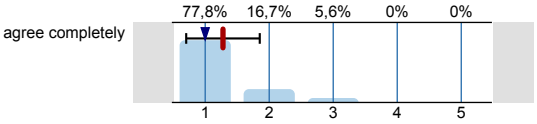
n=19
av.=1,2
md=1
dev.=0,4

Is another tool being used?



n=10
av.=1,4
md=1
dev.=0,5
ab.=9

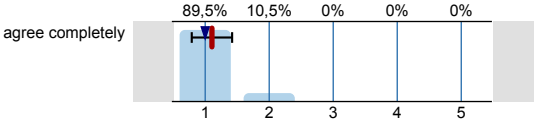
I can motivate myself for the usage of the online content in this course.



n=18
av.=1,3
md=1
dev.=0,6

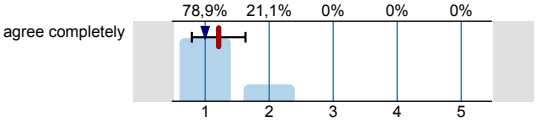
Skills

I am able to recount the content that was presented in this course.



n=19
av.=1,1
md=1
dev.=0,3

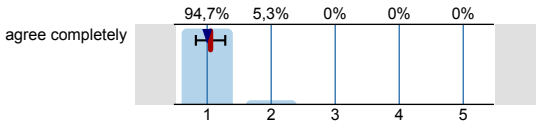
I can answer typical questions in this subject area.



n=19
av.=1,2
md=1
dev.=0,4

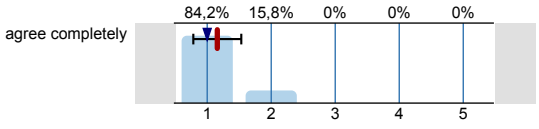
Presentation & Media Use

The subject matter of the individual sessions was logically sequenced.



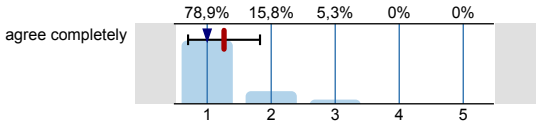
n=19
av.=1,1
md=1
dev.=0,2

The lecture content was communicated clearly and understandably.



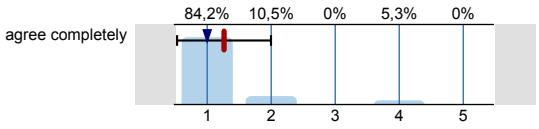
n=19
av.=1,2
md=1
dev.=0,4

Practical applications were adequately provided.



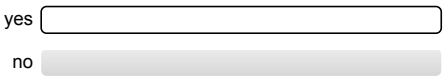
n=19
av.=1,3
md=1
dev.=0,6

Outlines of lectures, presentations, overheads, etc. used in class were understandable.



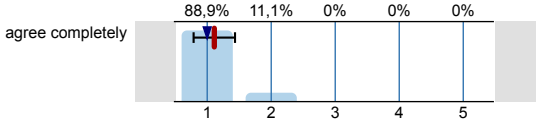
n=19
av.=1,3
md=1
dev.=0,7

Elements for learning progress control are used in the course (e.g. exercises, e-tests, quizzes, etc.).



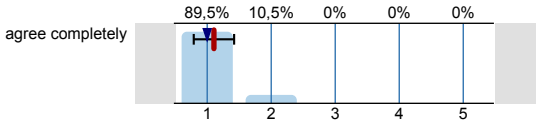
n=19

I receive helpful feedback on my learning progress through the practice exercises, e-tests, quizzes, etc. that are used.



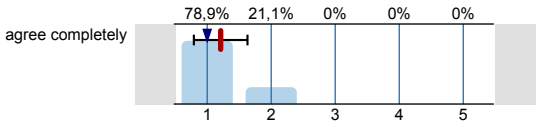
n=18
av.=1,1
md=1
dev.=0,3

The timing of the availability of digital teaching material (e. g. videos, screencasts, slides, scripts, sample solutions, exercises, e-books) enables adequate preparation and follow-up of the class.



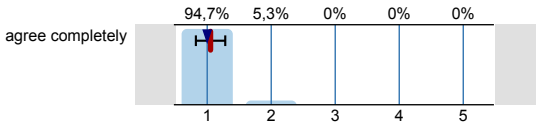
n=19
av.=1,1
md=1
dev.=0,3

The exchange between the participants of the course is sufficiently supported by the lecturer.



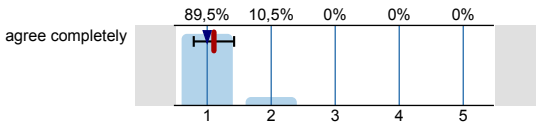
n=19
av.=1,2
md=1
dev.=0,4

I have sufficient opportunity to clarify questions of understanding.



n=19
av.=1,1
md=1
dev.=0,2

In my opinion, the selected digital formats support the acquisition of the intended competencies.

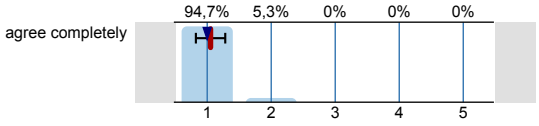


n=19
av.=1,1
md=1
dev.=0,3

Lecturer and learning environment

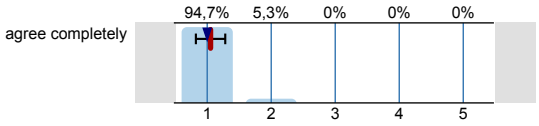
The lecturer...

...was readily available for questions/guidance.



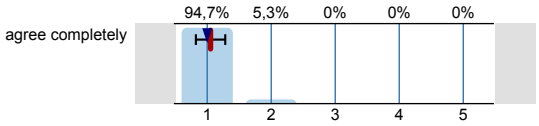
n=19
av.=1,1
md=1
dev.=0,2

... seemed well prepared.



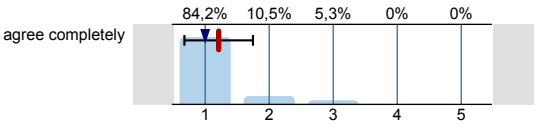
n=19
av.=1,1
md=1
dev.=0,2

...showed interest in students' success.



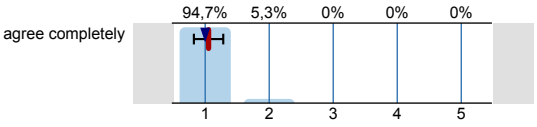
n=19
av.=1,1
md=1
dev.=0,2

...provided clear and understandable explanations of solutions.



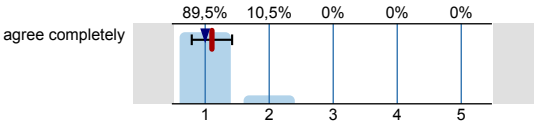
n=19
av.=1,2
md=1
dev.=0,5

...was responsive to student comments and questions.



n=19
av.=1,1
md=1
dev.=0,2

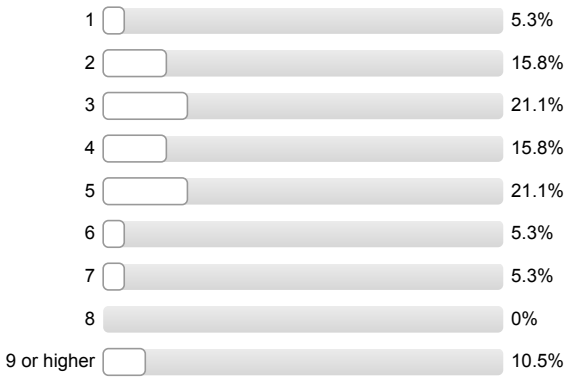
...speaks loudly and clearly.



n=19
av.=1,1
md=1
dev.=0,3

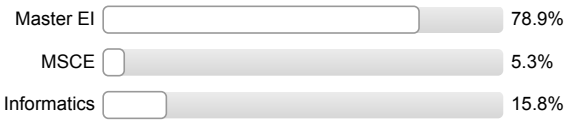
General information

Semester:



n=19

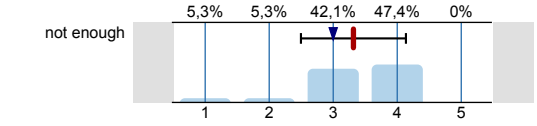
Course of studies (if not EI, please choose another field or school):



n=19

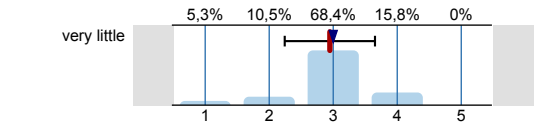
Requirements and effort

My prior knowledge level for this course is ...



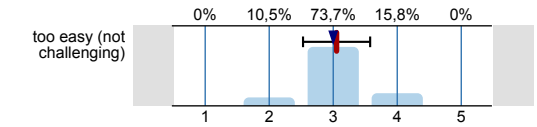
n=19
av.=3,3
md=3
dev.=0,8

The time needed for preparation and follow up to the course is ...



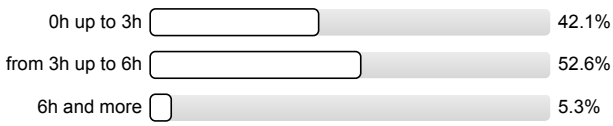
n=19
av.=2,9
md=3
dev.=0,7

The level of difficulty of the course is for me ...



n=19
av.=3,1
md=3
dev.=0,5

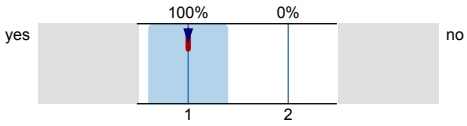
How much time do you spend on average on the preparation for and follow up of the module (lecture, tutorial, etc.) per week (excluding classroom hours)?



n=19

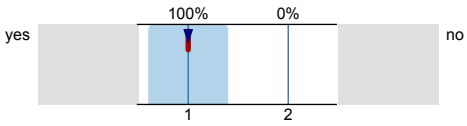
Overall impression

The course is worthwhile.



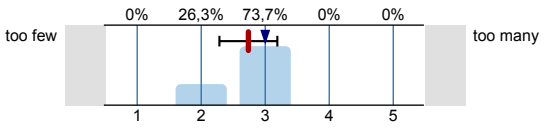
n=19
av.=1
md=1
dev.=0

I would recommend the course to other students.



n=19
av.=1
md=1
dev.=0

The number of credits given for the module is ...



n=19
av.=2,7
md=3
dev.=0,5

Comment

Do you think this teacher should get a lecturer prize? If yes, please write an email to jury@fs.ei.tum.de

Comments Report

Organization and Curriculum

Which other tool is used and how helpful is it?

- CTF site, it is very helpful!
- CTF website
- CTFd is helpful because of the statistics
- Capture the flag challenges, very helpful. During the challenges i was revising the lecture slides a lot and therefor learning the lecture contents automatically
- The CTF Platform is used (,which is great!) But this is not part of digital teaching, instead acts as assignment platform.
- onlineted: very helpful. Great way to transition into the lecture and helps to reveal topics which might need to be studied better.
- relevant practical tools depending on the lecture content

Do you have general comments on the tools being used in this course?

- -
- Moodle is very useful to get all the materials and the CTF platform works really well
- The course is perfectly organized. I don't miss anything.
- super cool and useful.

Comment

What I like about the course:

- - CTF
  - Motivation of Dr. Hamad
- - Capture the Flag challenges
  - the mandatory attendence was good for me because it helped me a lot to stay up to date in the lectures
  - The course is very interactive, Mr. Hamad keeps the lecture very interesting and due to the interaction i almost never loose my focus
- - The lecture in general
  - The CTF
- - Very motivated and passionate professor which is really dedicated to making his students understand
  - Very well structured lecture, easy-to-understand slides, ideas conveyed really well
- CTF: amazing learning experience. Sometimes frustrating but also really satisfying, once one was able to break the system.

  I also really like the real world examples of attacks and vulnerabilities.
- Content
  Hands-on exercises for better understanding of topics discussed in class
  CTF challenges
  Lecturer's availability
  Very good teaching
- Dr.-Ing. Mohammad Hamad is ensuring everyone understands the content presented and encourages us to discuss the material, which helps to get a deeper understanding. The CTF Challanges reinforces the theory with practical examples which helps to further understand the big picture.
- Everything!
- Everything. Dr. Hamad's course is the best one in my 5 years of TUM yet. He shows a great deal of interest in the actual learning progress of his students and is all in all just a very down-to-earth and nice person. He takes at least one hour after the lecture to just be there and wait for someone to ask a question. Also, the usage of a CTF to get hands-on experience with the learned content is great. In Short: the course content is great itself, but Dr. Hamad made it to my favorite course so far at TUM.
- Mohammad Hamad is a very good teacher.
- Super interesting lectures. Very motivating lecturer. I didn't know much about security before but contents are challenging but very understandble after very good explanation.
  CTF blocks are super fun and you learn so much!
- The CTF Challenge! So we actually do practical programming in the course to apply the learned theory.
  The lecturer (Dr. Hamad) is very interested in the success of the students and his lectures are very interactive.

The small size of the course, you can always ask questions.

- The CTF contest. It is very helpful to understand the cntents of the lecture. It also provides a kind of competition between students, so it is fun.
- The kind of content, interaction with students, CTF
- The lecturer has dedicated a lot of effort to the course and you can clearly notice that.
  The student-lecturer exchange ist very nice, please continue to encourage questions and speed up/slow down the lecture as appropriate.
- The material is nice, and the practical part assignment is much fun & also helps me understand more about the lecture content.
  One of the best courses I took @ TUM!
- The practical examples
- definitely the best course so far in all of my TUM career.

My suggestions for improving the course:

- -
- Get a bigger room and let more students take part in the course.
- None
- Nothing
- The exercises should be more challenging
- The slides are not self-explanatory in some case, I had some issues to understand the content of an attack by myself since I couldn't attend the lecture because I was sick
- perfect as is

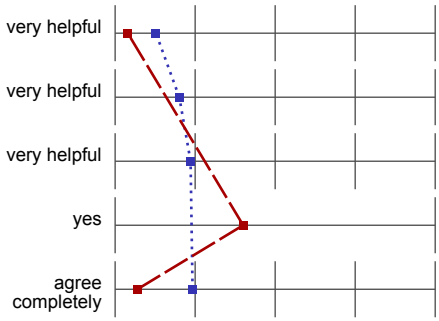
Profile

Subunit: Fakultät für Elektrotechnik und Informationstechnik
Name of the instructor: Dr.-Ing. Mohammad Hamad
Name of the course: (Name of the survey) IoT Security - Lecture - VL

Comparative line: WiSe 2022/23 Profillinienvergleich 163 Umfragen - EN

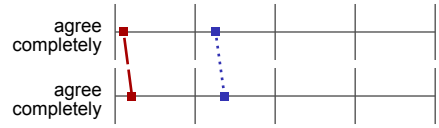
Values used in the profile line: Mean

Organization and Curriculum



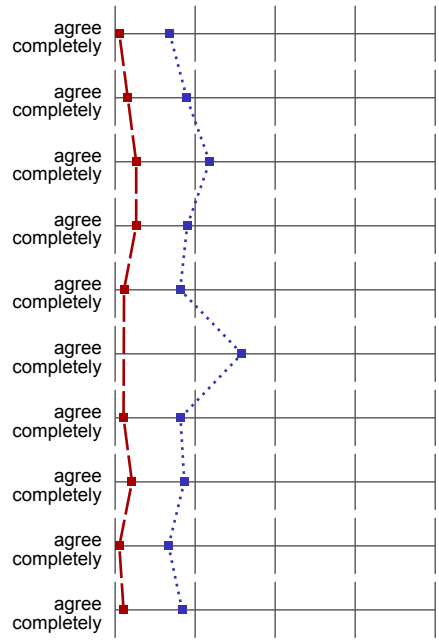
moodle	very helpful	not helpful	n=19 n=3247	av.=1,2 av.=1,5	md=1,0 md=1,0	dev.=0,4 dev.=0,9
Panopto (*)	very helpful	not helpful	n=1202	av.=1,8	md=1,0	dev.=1,1
Video conference tools (Zoom, BBB, etc.) (*)	very helpful	not helpful	n=1070	av.=1,9	md=1,0	dev.=1,2
Is another tool being used?	yes	no	n=10	av.=1,4	md=1,0	dev.=0,5
I can motivate myself for the usage of the online content in this course.	agree completely	disagree completely	n=18 n=3208	av.=1,3 av.=2,0	md=1,0 md=2,0	dev.=0,6 dev.=1,1

Skills



I am able to recount the content that was presented in this course.	agree completely	disagree completely	n=19 n=3340	av.=1,1 av.=2,3	md=1,0 md=2,0	dev.=0,3 dev.=1,0
I can answer typical questions in this subject area.	agree completely	disagree completely	n=19 n=3326	av.=1,2 av.=2,4	md=1,0 md=2,0	dev.=0,4 dev.=1,0

Presentation & Media Use



The subject matter of the individual sessions was logically sequenced.	agree completely	disagree completely	n=19 n=3314	av.=1,1 av.=1,7	md=1,0 md=2,0	dev.=0,2 dev.=0,8
The lecture content was communicated clearly and understandably.	agree completely	disagree completely	n=19 n=3326	av.=1,2 av.=1,9	md=1,0 md=2,0	dev.=0,4 dev.=1,0
Practical applications were adequately provided.	agree completely	disagree completely	n=19 n=3243	av.=1,3 av.=2,2	md=1,0 md=2,0	dev.=0,6 dev.=1,2
Outlines of lectures, presentations, overheads, etc. used in class were understandable.	agree completely	disagree completely	n=19 n=3256	av.=1,3 av.=1,9	md=1,0 md=2,0	dev.=0,7 dev.=1,0
I receive helpful feedback on my learning progress through the practice exercises, e-tests, quizzes, etc. that are used.	agree completely	disagree completely	n=18 n=1975	av.=1,1 av.=1,8	md=1,0 md=2,0	dev.=0,3 dev.=0,9
In my opinion, the course would benefit from the usage of learning progress control elements. (*)	agree completely	disagree completely	n=1142	av.=2,6	md=2,0	dev.=1,3
The timing of the availability of digital teaching material (e.g. videos, screencasts, slides, scripts, sample solutions, exercises, e-books) enables	agree completely	disagree completely	n=19 n=3192	av.=1,1 av.=1,8	md=1,0 md=1,0	dev.=0,3 dev.=1,1
The exchange between the participants of the course is sufficiently supported by the lecturer.	agree completely	disagree completely	n=19 n=3116	av.=1,2 av.=1,9	md=1,0 md=2,0	dev.=0,4 dev.=1,0
I have sufficient opportunity to clarify questions of understanding.	agree completely	disagree completely	n=19 n=3227	av.=1,1 av.=1,7	md=1,0 md=1,0	dev.=0,2 dev.=0,9
In my opinion, the selected digital formats support the acquisition of the intended competencies.	agree completely	disagree completely	n=19 n=3104	av.=1,1 av.=1,8	md=1,0 md=2,0	dev.=0,3 dev.=1,0

Lecturer and learning environment

...was readily available for questions/guidance.	agree completely	disagree completely	n=19 n=3066	av.=1,1 av.=1,5	md=1,0 md=1,0	dev.=0,2 dev.=0,8

... seemed well prepared.	agree completely		disagree completely	n=19 n=3318	av.=1,1 av.=1,4	md=1,0 md=1,0	dev.=0,2 dev.=0,8
...showed interest in students' success.	agree completely		disagree completely	n=19 n=3265	av.=1,1 av.=1,6	md=1,0 md=1,0	dev.=0,2 dev.=0,9
...provided clear and understandable explanations of solutions.	agree completely		disagree completely	n=19 n=3296	av.=1,2 av.=1,7	md=1,0 md=1,0	dev.=0,5 dev.=1,0
...was responsive to student comments and questions.	agree completely		disagree completely	n=19 n=3286	av.=1,1 av.=1,5	md=1,0 md=1,0	dev.=0,2 dev.=0,8
...speaks loudly and clearly.	agree completely		disagree completely	n=19 n=3316	av.=1,1 av.=1,5	md=1,0 md=1,0	dev.=0,3 dev.=0,8

Requirements and effort

My prior knowledge level for this course is ...	not enough		more than enough, I already knew	n=19 n=3352	av.=3,3 av.=2,9	md=3,0 md=3,0	dev.=0,8 dev.=0,9
The time needed for preparation and follow up to the course is ...	very little		too much	n=19 n=3346	av.=2,9 av.=3,2	md=3,0 md=3,0	dev.=0,7 dev.=0,9
The level of difficulty of the course is for me ...	too easy (not challenging)		too difficult (overly challenging)	n=19 n=3335	av.=3,1 av.=3,4	md=3,0 md=3,0	dev.=0,5 dev.=0,7

Overall impression

The course is worthwhile.	yes		no	n=19 n=3333	av.=1,0 av.=1,1	md=1,0 md=1,0	dev.=0,0 dev.=0,2
I would recommend the course to other students.	yes		no	n=19 n=3311	av.=1,0 av.=1,1	md=1,0 md=1,0	dev.=0,0 dev.=0,3
The number of credits given for the module is ...	too few		too many	n=19 n=3277	av.=2,7 av.=2,7	md=3,0 md=3,0	dev.=0,5 dev.=0,7