

Course report Faculty of Technology and Society

This course report is based on student feedback and submitted course evaluations, exam results and the teacher's idea for further development. The course report is published on the course website and Canvas-site.

Course name	Designing and evaluating Innovation
Course code	DA622E
Semester	VT24
Number of registered students	8
Course coordinator	Dipak Surie

X	Course report is published on Canvas-site
	Course report is published on course webpage

Compulsory course evaluation

Number of responses to the compulsory course evaluation via SSR	4
Number of responses to the compulsory course evaluation via course coordinator	3

The compulsory course evaluation has been conducted through:

X	Standard template via SSR (Sunet Survey and Report)
	Extended standard template with <i>own questions</i> via SSR
X	Own evaluation method by the course coordinator
If own evaluation method was conducted, describe how:	
<p>A survey questionnaire was sent to students during the last week of this course for student evaluation. The questionnaire is a detailed one with specific course moments and aspects covered that should help understand student perspectives and make improvements for next year.</p>	

Additional evaluations that were conducted during the course

	Separate survey
X	Oral evaluation in class
	Oral evaluation in smaller groups
	Other evaluation method
If other evaluation method was conducted, describe how:	
<p>The oral evaluation done in class was through casual dialogues to understand what has worked and what has not worked. Such dialogues were conducted during practical sessions to understand student perspectives.</p>	

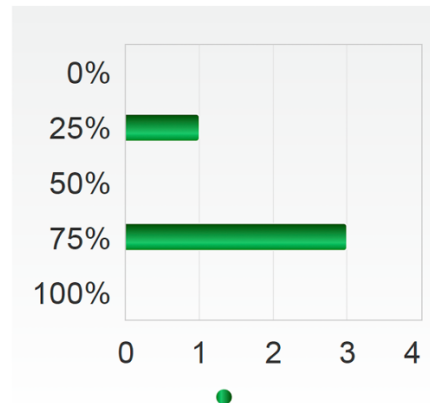
Comments on the course evaluations

Evaluation 1: Through SSR

1) To what extent do you consider yourself to have achieved each of the course's learning outcomes below?

The result shows that 75% of the students were positive with the course and believe that they have achieved the course learning outcomes. However, we will investigate the 25% and find ways to improve.

	Number of responses
0%	0 (0.0%)
25%	1 (25.0%)
50%	0 (0.0%)
75%	3 (75.0%)
100%	0 (0.0%)
Total	4 (100.0%)

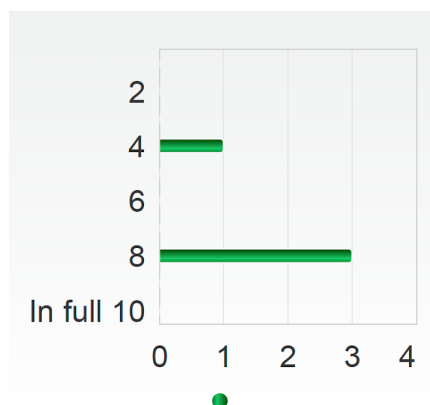


I believe it was quite unorganized, hard to follow and there was too much new unrelated content and projects when jumping from one topic to another on a weekly basis.

The primary criticism with this 1 comment is that the course has several topics where the students jump from one topic to the other every week with limited red thread. There are both positive and negative aspects to this approach where weekly topics with different teachers + assignments are provided. We are open to further discussions.

2) To what extent do you consider that the course's work models/learning activities have been a support in your learning to be able to achieve the learning outcomes?

	Number of responses
Not at all 1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	1 (25.0%)
5	0 (0.0%)
6	0 (0.0%)
7	0 (0.0%)
8	3 (75.0%)
9	0 (0.0%)
In full 10	0 (0.0%)
Total	4 (100.0%)



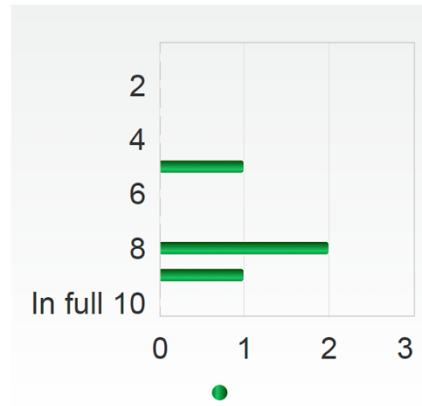
Positive response with a score of 8.0 and a median of 7.0. Clearly shows that the work models/learning activities were directly connected to the learning outcomes.

I believe that the weekly based structure really degraded the quality of the course and it's content.

As mentioned above, we will investigate the weekly based structure and see how to develop a red thread without affecting the course quality.

3) To what extent do you think that the course's forms of assessment gave you the opportunity to show how well you achieved the learning outcomes?

	Number of responses
Not at all 1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	0 (0.0%)
5	1 (25.0%)
6	0 (0.0%)
7	0 (0.0%)
8	2 (50.0%)
9	1 (25.0%)
In full 10	0 (0.0%)
Total	4 (100.0%)



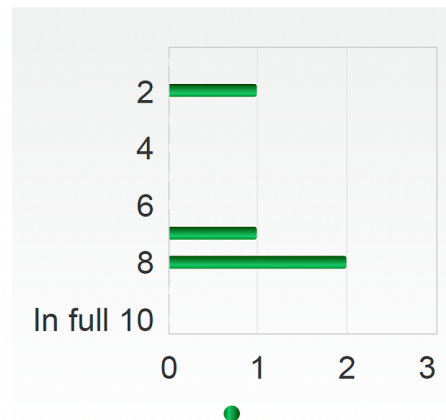
A median of 8.0 and a mean of 7.5 means the assessments have been in line with the learning outcomes.

It seemed as if, as long as we "complete and submit" an assignment, we can simply pass and move on to the next.

Some of the assignments / tasks during the week are more experience-based / more practical where active participation is more important. Of course, one has to be watchful on the level of participation by students and use it during the grading process. We have examinations in the course (individual submissions) that are more stringent and will separate performers from non-performers.

4) To what extent do you consider that the course as a whole has met your expectations?

	Number of responses
Not at all 1	0 (0.0%)
2	1 (25.0%)
3	0 (0.0%)
4	0 (0.0%)
5	0 (0.0%)
6	0 (0.0%)
7	1 (25.0%)
8	2 (50.0%)
9	0 (0.0%)
In full 10	0 (0.0%)
Total	4 (100.0%)



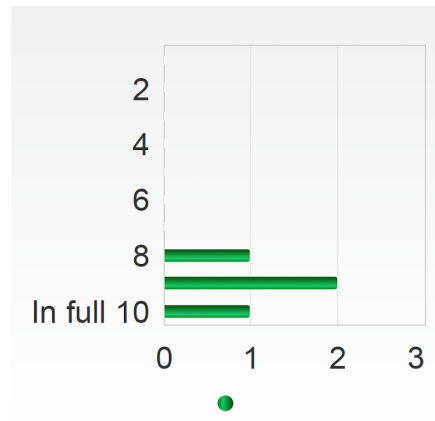
The median score of 7.5 is good but the mean is just 6.2. So, there are aspects that need to be improved to meet student expectations. The other evaluation would provide more insights into it along with the student dialogues.

It was really below my expectations due to the structure problems mentioned above, as well as the lack of educational content from the side of lecturers - most of the responsibility was entirely on us, while having to tackle many assignments in a span of 5 days every week.

The course is a practical course where you learn innovation processes, methodologies and approaches that need more practical task experience / completion. We as teachers believe to have imparted important methods / processes backed-up with standard literature. At the master's level, one is expected to do independent learning to some extent. However, since this point is raised, we will look into it.

5) To what extent has the course given you the opportunity to take responsibility for your own learning?

	Number of responses
Not at all 1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	0 (0.0%)
5	0 (0.0%)
6	0 (0.0%)
7	0 (0.0%)
8	1 (25.0%)
9	2 (50.0%)
In full 10	1 (25.0%)
Total	4 (100.0%)



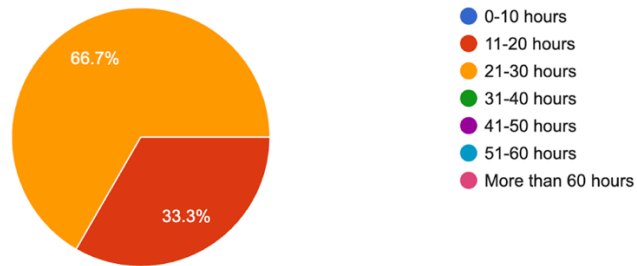
The median and mean scores of 9.0 shows that the course promotes responsibility for independent learning expected at the master's level.

It was all based on our own responsibility to do and learn something.

Evaluation 2: Through survey by the course coordinator

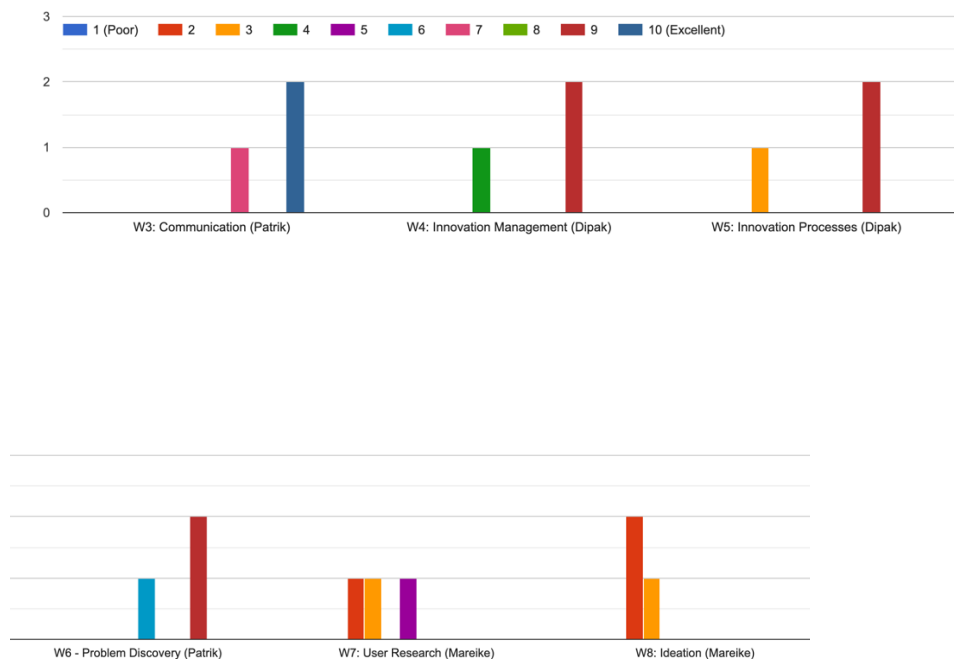
How many hours per week did you spend on this course?

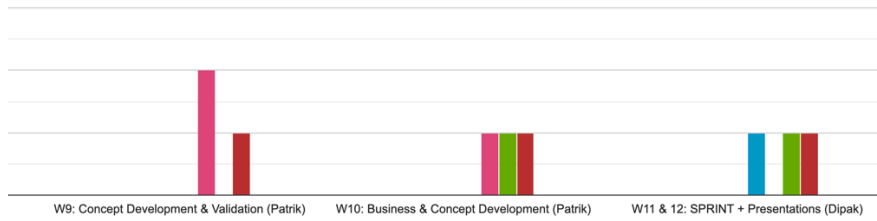
3 responses



2 students have spent 21-30 hours while 1 student has spent 11-20 hours. We expect about 40 hours per week for full-time study and will motivate students to reach this number.

Rate the different weeks





We will investigate the weeks with poorer ratings and improve them.

How was your experience with the communication week? Provide your comments and feedback on its usefulness and learning outcomes.

3 responses

I liked it a lot. Nothing to change
 It was fun and challenging and i can say that I gained something from it good quality content and practical experience when presenting

Seems a popular and useful week.

Share your experience with the business week. Provide comments and feedback on its usefulness, learning outcomes and its influence on your innovation journey.

3 responses

Interesting. I liked the guest lectures
 It was really challenging but my team and I really put in effort, I can say that I learned a lot
 it was relevant knowledge with good practical implications and good guest lectures

Seems a popular and useful week. We will keep it.

How was your experience with the coaching sessions? Did you find them practical and easy to use along your innovation journey? Did you find it hard to operationalise the thoughts & discussions made during the sessions?

3 responses

They were a good tool to know that we were on the right path
 I found them easy and effective
 it was good to get feedback from teachers about our work

Good feedback from the teachers is mentioned.

How was your experience with Erica Toft from the Innovations Office at MAU? Comment on the success stories shared, coaching support provided and the innovation support process / framework at MAU.

3 responses

She has an interesting perspective that help us pivot
It was fun to gain some insights given her experiences
it was pleasant and beneficial

Seems a positive addition.

How much did you learn about the different innovation processes? How confident are you in taking the different processes, methods and techniques learnt during this course for future innovation assignments? Share your thoughts & experiences.

3 responses

If you mean like open innovation etc, I guess it could have been more practical or put into a practical context. A bit much theory that I might not be able to apply directly. Might need to go back individually and research.
I fell somewhat confident
could have been better, lacked organizational structure during some weeks

The open innovation approach is termed positive. We will investigate the possibilities for better coordination with the Media Technology students and organize the weeks better.

Share your experience in creating MVP (minimum viable product). What did you learn? Share the positives and challenges faced from your innovation story.

3 responses

Hard to produce something in a week. Maybe it would be good with a 2-week-sprint-period. I'm not sure, maybe we should have been more prepared so that the problem validation already would have been done before the week started.
I found it really interesting as an concept and I understand it better know then in the beginning
it was really messy during the week when we focused on the MVP, could be improved a lot

The MVP / pretotype validation parts will be strengthened with better coordination with the Media Technology students.

Share your experience with experimentation, perseverance and/or pivoting. What did you learn? Share the positives and challenges faced from your innovation story.

3 responses

I learnt the importance of incremental improvement and looking beyond tech-solutions. The most grandiose solutions might not be the real answer to the problem. The hardest part of pivoting was to argue to actually do the pivot for my team mates.
It was interesting in our case since we took a really hard turn in terms of pivoting it was a struggle to define a clear line between whether it makes sense to pivot or persevere, especially when applying to some project that we needed to revisit after many weeks

Positive response to experimentation, perseverance and pivoting.

Share your experience learning and practising ideation techniques. Provide your feedback on the usefulness, relevance and fun aspects associated with the different techniques.

3 responses

We did some brainstorming as far as I know, but I wouldn't say that I learnt something new.

I feel that this part can be improved in terms of communication from the teachers and what we actually were doing

lacking knowledge about ideation techniques

We will improve the ideation week content.

Share your experience and adventures doing open innovation, co-design and intellectual property protection (answer if you find it relevant).

2 responses

See answer in some questions before.

again, reflecting the co-design week, it could have been organized better

This part will be re-organised with better co-ordination.

Share your experience, adventures and challenges working with "real" world stakeholders (if any). How did you approach them? What did you learn working with them?

3 responses

The hardest part was the fear of rejection when approaching people, but it turned out to be no problem at all.

It was really interesting since it gave me a real world experience on how it could be in reality

we didn't have many scenarios of such, but in cases when we did it was pleasant and it added extra motivation and relevance to the need in question

Seems to be mixed perspectives (both positive and negative).

Share your experience on working in a team. Share your experience doing team building activities. Highlight both the positive and negative experiences.

3 responses

To be honest it seems like the dedication levels of the classmates are so different which makes the experience quite bad. People just want to do what is expected of them, and for people who want to challenge themselves it's too hard being the only one in the team trying new stuff, techniques etc.

To be honest I only have positive experiences, where I gain so much from discussing different ideas and learn how other group members think

it was extremely beneficial during the entire course

Mixed perspectives.

**How was your experience in working with the Media Technology students?
Share both the positive and negative experiences.**

3 responses

I like it a lot, it gave me new energy. The media students have an interesting perspective that they bring to the group assignments and workshops. It was nice to have a big class of people so that you could work with different people with different perspectives.
it was really fun and learning
amazing, it was really great to meet and work with them

The overall working with the Media Technology students seems positive. We will continue in this direction with better coordination.

**How was your experience in creating a Personal Innovation Handbook?
Comment on its usefulness, your journey in creating the personal innovation handbook, and practical challenges (if you had faced any).**

3 responses

I think that it's a good idea. A challenge was that I wrote it like a diary, but now when i read the assignment again I see that it's not the purpose so now I have to rewrite it. since this is my first time doing this I find it actually really useful so I don't forget what we actually did and learnt
it was a bit of a struggle because we had a lot of work during each week, so it really took a strain to sit down and work more every friday afternoon

Mixed opinions but I suppose the students learn from creating such a handbook.

Share your comments on the experience you had with the teachers on this course. Provide insights on both the positive and the negative experiences.

3 responses

I think that this course had a good mix of teachers. I however think that Mareike might need to structure her weeks better so that we actually do ideation techniques etc.
It was good, could be improved however regarding the communication between some teachers
the teachers were very helpful and open for changes

We will look into the aspect with teacher coordination and structuring.

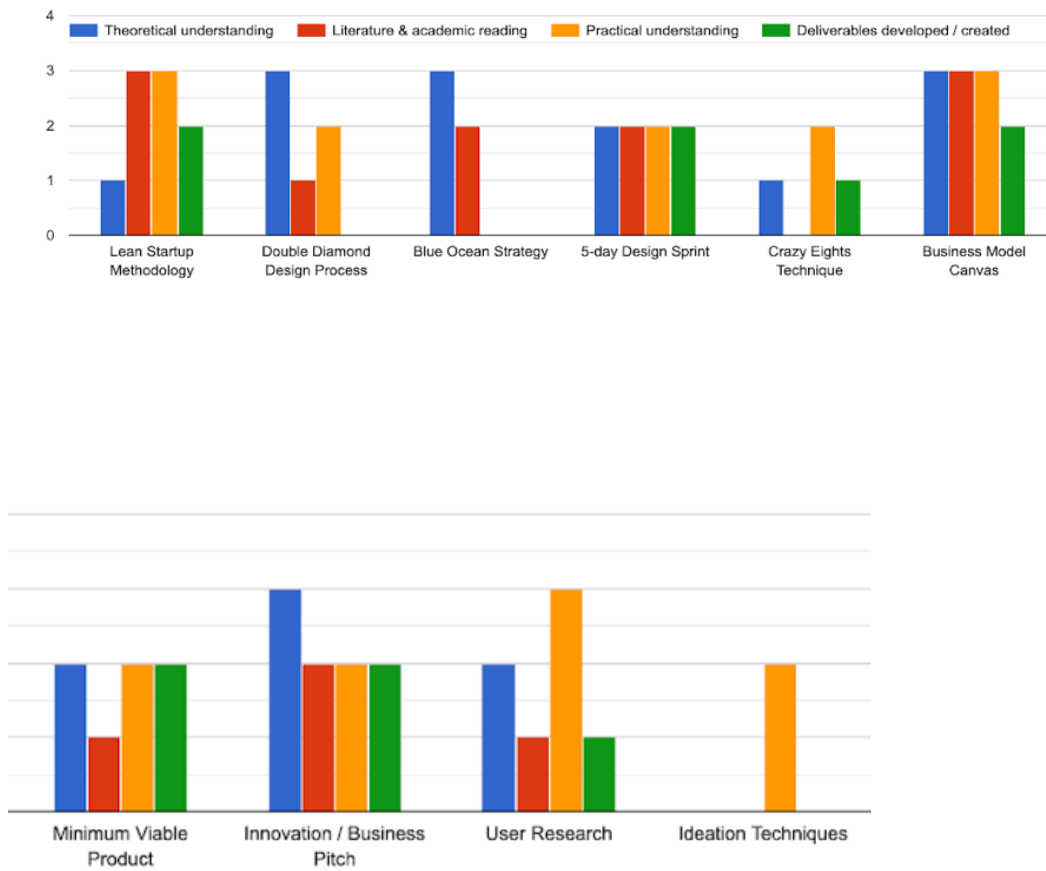
Comment on the literature and supporting materials provided during this course. Share your experience on its usefulness and relevance. Would you recommend any specific literature that might be of help in this course? (not provided by the teachers)

2 responses

I read The Lean Startup book as it was recommended by Dipak in the beginning of the course, and it helped me understand the course better.
/

The Lean Startup book is appreciated.

How was your learning outcomes on the following topics?



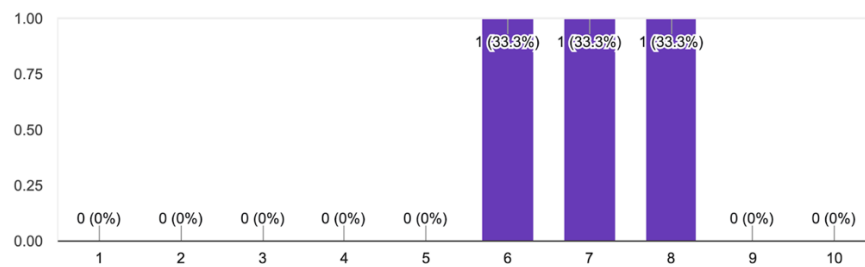
Did you achieve the course learning outcomes? Share your experiences.

2 responses

I did learn a lot from this course, some was repetition but it was really good cannot answer fully - to some extent yes Positive to mixed opinion.

How challenging was the course?

3 responses



How satisfied are you with the course? Share your thoughts and feelings having studied this course.

2 responses

I'm happy with this course. I would say that this course has been the best yet in this programme. Especially since it contains a lot of practical work.
mildly dissapointed

Once again positive to mixed opinion.

List 5 things that you liked in this course.

3 responses

I think it all have been great except Ideation week maybe.
Working with media, group work, structure of each week, free over weekends and interesting projects
teamwork, practicality, guest lectures, lectures with Media

List 5 things that needs improvement in this course.

3 responses

Maybe ideation week.
Some weeks could have been improved (w.7 and w.8) where I was not really sure what we were doing
schedule and organization, maybe the learning structure (not weekly), less assignments that are maybe more complex and give us more time

Examination results

X	Examination results are as expected
	Examination results are not as expected
<p>Write comments here:</p> <p>We had mixed type of examination from individual work to group work, to seminars, to practical exploration to academic investigation. The overall class results are positive.</p>	

Recommendations and priorities for the course development

The following will be improved:

- Some of the weeks including the ideation week will be improved on content, structure and quality.
- Better overall course structure with a clear red thread.
- Better coordination with Media Technology students (even though the time with Media Technology students were well-appreciated!).
- Better MVP and Pretotyping structure/support.
- Other comments/feedback will be reviewed, and changes will be made accordingly.

Instructions

The instructions part of the course report is only intended as support for the course coordinator to create the course report and the pages below are to be removed before the publication of the report.

Course name refers to the complete course name as listed in the syllabus, e.g. *Computer Science: Research Methodology or Introduction to Programming and Embedded Systems*.

Course code refers to the identification code of the course, e.g. *DA350A or MT158A*.

Semester refers to the semester that is referenced in the course report, e.g. *Spring 20 or Autumn 19*.

Number of registered students refers to the number of registered students three weeks after the start of the course (meaning the number of registered students after early withdrawals).

Course coordinator refers to the name of the teacher who is the course coordinator and who is responsible for writing the course report. The names of other teachers who may have been involved in the implementation of the course and compilation

of the course report are not stated in the report.

It must be registered in the course report that it is published on the course website and the current course's Canvas page. This is filled in by the person responsible for the publication of the report.

Course evaluation

Number of responses to compulsory course evaluation refers to the number of students who submitted a course evaluation or who actively participated if an alternative evaluation method was used (this section is to be filled in by the study administration if the course evaluation is carried out by the study administration via SSR).

Compulsory course evaluation has been conducted through refers to the approach that has been used for the course evaluation. The chosen approach is indicated by checking one of the three listed options — only one option should be checked:

- **Standard template via SSR (Sunet Survey and Report):** This is the template that is set up by the study administration unless the study administration for the course has been instructed otherwise. Check this option if you used the standard template via the study administration without making any adjustments.

- **Extended standard template with own questions via SSR:** Check this option if you have extended the study administration's standard template with your own course-specific questions. The added questions do not need to be reported here. They are archived as part of the course evaluation.

- **Own evaluation method by the course coordinator:** Check this alternative if the course evaluation has not been carried out using one of the two alternatives above. The course evaluation has been set up by the course coordinator without the study administration. In this case, the course coordinator is also responsible for summarising and compiling the course evaluation. If the course coordinator has chosen their own method to conduct the course evaluation, the method must be described briefly. The specific questions do not need to be reported here but must be reported in the course evaluation summary which is done by the course coordinator. E.g. *The course evaluation has been conducted anonymously on paper in connection with presentations at the end of the course* or *The course evaluation has been conducted anonymously with Mentimeter in connection with the lecture in week 22.*

If any additional evaluations have been conducted, they are reported as described below. It is not necessary to carry out additional evaluations. If no additional evaluations have been conducted, this section is left blank.

Additional evaluations that were conducted during the course refers to any other organised evaluations aside from the compulsory course evaluation that might be included in the course report. "Organised" in this case means that the evaluation has been announced to the students in advance, so that they know that an evaluation is taking place and that they will have the opportunity to express their opinion at this occasion. This section does not refer to any spontaneous discussions with students

or viewpoints given that may have taken place and that are included in the course report, instead this section only refers to any additional, formally organized evaluations, where students were given the opportunity to evaluate the course. There are four options — it is possible to check more than one option:

- ***Separate survey*** refers to whether one or more formally organised surveys have been conducted that involve some form of course evaluation. Surveys can be conducted digitally, via e.g. Canvas or Mentimeter, or by handing out paper surveys.
- ***Oral evaluation in class*** refers to whether there have been one or more formally organised opportunities for students to give oral feedback and/or to discuss their opinion on the course in the whole class.
- ***Oral evaluation in small groups*** refers to whether there have been one or more formally organised opportunities for students to give oral feedback and/or to discuss their opinion on the course in smaller groups than the whole class where each student has more space to express their opinions.
- ***Other evaluation method*** refers to any other formally organised evaluations that may have been carried out in another way than the three alternatives listed above. If so, the method needs to be described briefly.

Comments on the course evaluations means that the course coordinator must comment on the results of the course evaluations. The comments are aimed at current and future students on the course. The reader can be expected to have knowledge of the course's structure and organisation. It is therefore not necessary to explain the different course activities (or similar) in the comments section. Relevant things to comment on are, for example, whether there were any unexpected evaluation results or whether there are any results or occurring criticism that may need to be explained or put into context.

Examination results

Examination results refers to results from all types of examinations that have been conducted on the course (e.g. in-class exams, laboratory work, assignments, etc.). Indicate whether the examination results were overall as expected or not.

If some types of examinations differ greatly in how they turned out in relation to the expected result (for example, the expected number of students passed a written exam but only a very low number of students passed an assignment), then both options can be checked.

If the examination results deviate from what was expected, it must be commented on and indicated what reasons might be responsible for the deviation. Even in cases

where the examination results are as expected, it might be necessary to comment if there are special aspects that need to be highlighted.

Recommendations and priorities for the course development

Briefly state which recommendations and priorities should be made for the upcoming course based on the results of the course evaluations and in relation to the examination results.