

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	Emerging Digital Technologies
Course code	DA621E
Semester	Ht23
Number of registered students	19
Course coordinator	Dipak Surie

<input type="checkbox"/>	Course report is published on Canvas-site
<input type="checkbox"/>	Course report is published on course webpage

Compulsory course evaluation

Number of responses to the compulsory course evaluation (SSR)	4
Number of responses to the compulsory course evaluation (own evaluation)	5

The compulsory course evaluation has been conducted through:

X	Standard template via SSR (Sunet Survey and Report)
<input type="checkbox"/>	Extended standard template with <i>own questions</i> via SSR
X	Own evaluation method by the course coordinator
A survey using Google forms was sent to registered students to fill in to complement the evaluation done via Sunet Survey & Report.	

Additional evaluations that were conducted during the course

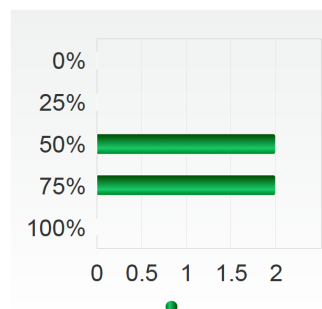
<input type="checkbox"/>	Separate survey
<input type="checkbox"/>	Oral evaluation in class
<input type="checkbox"/>	Oral evaluation in smaller groups
<input type="checkbox"/>	Other evaluation method
If other evaluation method was conducted, describe how:	

Comments on the course evaluations

Here are the results from the SSR course evaluation:

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

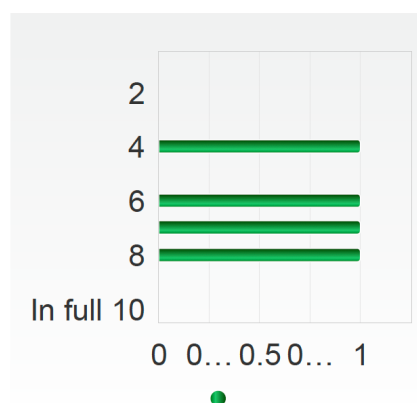
	Number of responses
0%	0 (0.0%)
25%	0 (0.0%)
50%	2 (50.0%)
75%	2 (50.0%)
100%	0 (0.0%)
Total	4 (100.0%)



The course has obtained a mean and a median of 3.5 with 4 respondents. We will investigate into the learning outcomes to ensure that the learning outcomes are satisfactorily achieved.

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

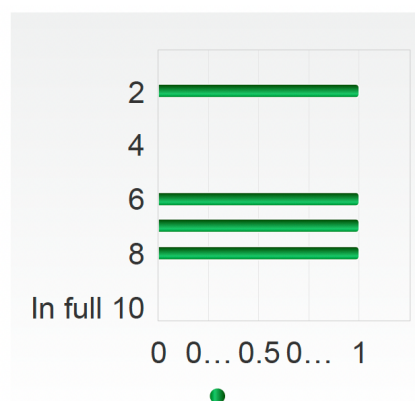
	Number of responses
Not at all 1	0 (0.0%)
2	0 (0.0%)
3	0 (0.0%)
4	1 (25.0%)
5	0 (0.0%)
6	1 (25.0%)
7	1 (25.0%)
8	1 (25.0%)
9	0 (0.0%)
In full 10	0 (0.0%)
Total	4 (100.0%)



The mean and median values correspond to 6.2 and 6.5 respectively. The values are also hampered by a poor score by 1 student. We will investigate it further during the student dialogues to ensure highest quality in this course.

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?

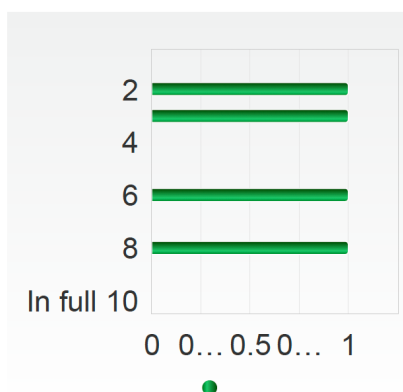
	Number of responses
Not at all 1	0 (0.0%)
2	1 (25.0%)
3	0 (0.0%)
4	0 (0.0%)
5	0 (0.0%)
6	1 (25.0%)
7	1 (25.0%)
8	1 (25.0%)
9	0 (0.0%)
In full 10	0 (0.0%)
Total	4 (100.0%)



The assessment forms have received a median score of 6.5. We have tried to include different examination methods including podcasts, reflective essays, poster presentations, etc. We will investigate it further.

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

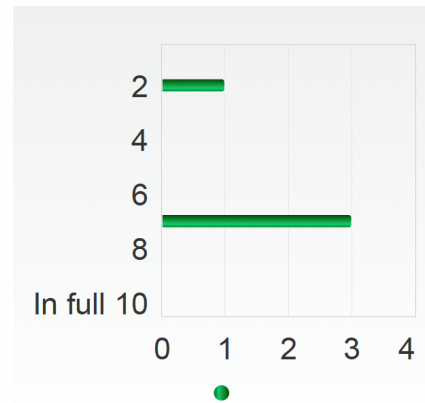
	Number of responses
Not at all 1	0 (0.0%)
2	1 (25.0%)
3	1 (25.0%)
4	0 (0.0%)
5	0 (0.0%)
6	1 (25.0%)
7	0 (0.0%)
8	1 (25.0%)
9	0 (0.0%)
In full 10	0 (0.0%)
Total	4 (100.0%)



The course has been average, and expectations should be improved. The data does not provide further details on what aspects, and we will figure that out from the other survey results.

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	1 (25.0%)
3	0 (0.0%)
4	0 (0.0%)
5	0 (0.0%)
6	0 (0.0%)
7	3 (75.0%)
8	0 (0.0%)
9	0 (0.0%)
In full 10	0 (0.0%)
Total	4 (100.0%)

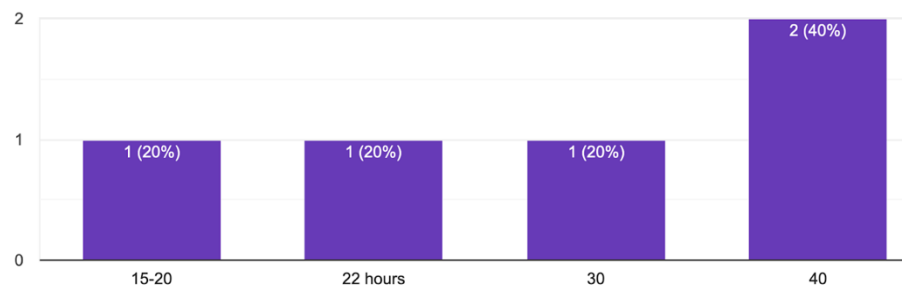


A median of 7.0 indicates that taking responsibility for one own learning is supported in this course. Further opportunities can be explored and provided in the future.

Here are the results from the course co-ordinator's own evaluation:

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

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



The response shows that students have spent 30.4 hours per week on this course. We will investigate it to ensure that all students spend close to 40 hours per week on this course.

2. *Was the orientation week with introduction to different emerging digital technologies useful? Provide your comments / feedback.*

5 responses.

The overall response was that the week was useful. Yes, from all 5 participants. Yes, although I already knew a bit, I learned more.

- Yes, it was useful. Especially the lecture about AI.
- Yes it was
- Yes, it was very interesting, and I gained initial knowledge of these areas.
- That was very knowledgeable for me.

3. *Was the poster session useful? Comment on your experience with the poster session.*

5 responses

The overall response was positive with yes.

- Yes it was, however I was not prepared for a presentation. But it ended up well
- Yes it was. I liked it a lot since it involved - not only - researching but also designing a creative nice looking poster.
- It was nice to try the poster. It was my first time and putting ideas into one page was quite challenging but also fun.
- Yes, I got an idea about how to present our innovation idea to the public, and it was a very attractive and interesting session.
- Yes, that was an interesting poster session because I knew how can be advertising our product or other technology who useful for everyone.

4. *Was the visit to Lund University VR lab useful? Provide your experience and comments.*

5 responses

I suppose this session was canceled. We hope to provide such visits in the future.

5. *Comment on your experience with the workshops / labs.*

5 responses

The overall feel was that the Arduino part was interesting and useful.

- It was really fun, especially the Arduino part. Super interesting.
- I like the AI-lab and the Arduino-lab
- The Arduino and machine learning workshop was great.
- It was very interesting, and I got a lot of knowledge from it.
- That was knowledgeable session

6. *Comment on your experience receiving technical support to build prototypes.*

5 responses

There were mixed responses and due to different reasons.

- It was really good and professional
- It was good
- We have done everything on our own.
- Actually, I could not build prototypes due to a team member issue.
- The Professors are helping nature and teaching skills are very good. I am very happy.

7. *Comment on your experience working in a team.*

5 responses

4 students have felt positive while 1 student has had problems with the team experience.

- It was good, as always i learn much from my teammates
- It worked out somewhat nice
- I was super happy with my team as all the members were both communicative and responsible.
- worst experience for me. This applies not only to this module. The main reason I dropped this program was that I was frequently grouped with a student who lacked knowledge. As a result, I was unsuccessful in most of the group work, so I had to drop the programmer. This was not only for this module but also for the previous one.
- That was a good experience for doing work with all my separate teams. They are very helpful.

8. *Comment on your experience working in the project.*

5 responses

The overall take is that it was challenging and there were completion issues. I think one has to consider the time frame and be satisfied with the results since the project work runs for about 3-4 weeks which is too short a time to build complex technology solutions especially one needs to code a lot.

- Stressful but giving
- -||-
- It was challenging to work on VR but i'm happy that we selected the hard way. We have explored and learned a lot.
- I could not complete this due to the group issue.
- All projects are full of technology and full of knowledge. These are useful in our future.

9. *Comment on your experience with the teachers.*

5 responses

The overall response on the course teachers were positive.

- We can always have fun with our teachers, which is really important to me
- It was nice to have different teachers with their own expert area
- I had no issues with any of them and they were super supportive and nice. Also they were knowledgeable in their area.
- Teachers were very helpful, but it is better to care about group students than this; it is helpful to future students to avoid any unfortunate situation like mine. It was not just for this module but for the previous module as well.
- Teachers are very helpful and always active for any situation .

10. *Comment on the literature and supporting materials provided during this course.*

5 responses

Overall there were positive responses.

- It was huge help, especially for the Gibbs model
- Do not remember
- It was ok.
- It was great.
- Yes, that was good.

11. Did you achieve the course learning outcomes?

5 responses

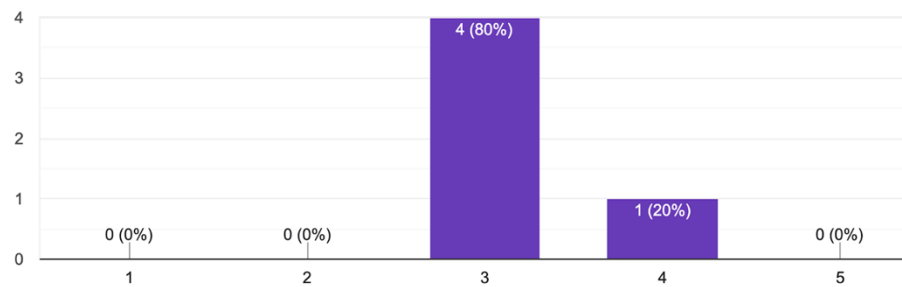
The overall response is positive.

- Yes
- I would say so
- I believe yes. Especially for machine learning and vr.
- up to some extent.
- Yes definitely most of the things. I have learned for my bright future.

12. How challenging was the course?

How challenging was the course?

5 responses

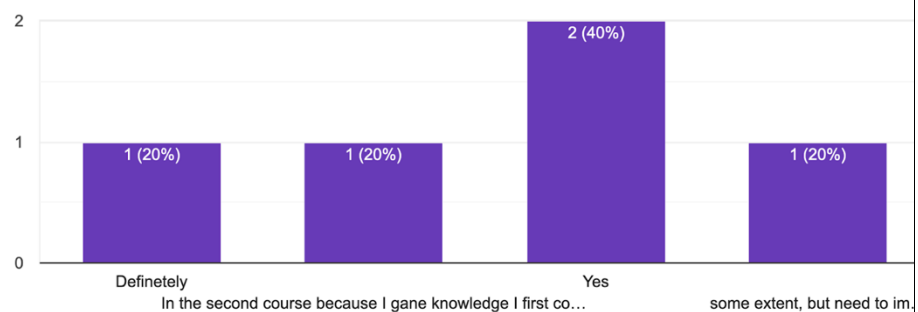


The level of challenge lies between 3 and 4 which is positive. Not too hard and not too soft.

13. Were you satisfied with the course?

Were you satisfied with the course?

5 responses



14. *List 5 things that you liked in this course.*

5 responses

- Prototype, workshop, assignments, lecture.
- Workshops, Having a long assignment i.e project work, Interesting topic.
- hands on experience, my group, new subjects, practical knowledge which can be applied to the real world, schedule.
- Teachers teaching, university common facility.
- Interesting course, helping teachers, supporting teams, more knowledgeable, and that was good for the future.

15. *List 5 things that needs improvement in this course.*

5 responses

- Structure, time planning.
- Maybe be a bit more clear in the purpose of a specific learning area as some assignments felt less useful.
- Robotics was limited due to the canceled session, VR class could have been more solid with real world examples, more workshops could have been better for next year.
- Guidant to an international student, grouping students for group work i should be balanced.
- Good, good, some industrial training.

Examination results

X	Examination results are as expected
	Examination results are not as expected
<p>The overall exam results were good. Most of the students were motivated students and have put the efforts to do well. There were a couple of students that had difficulty with the course but also the program. This could be due to their international background. We as teachers try to do our best to be inclusive and foster diverse higher-educational classes. At times it is hard with teamwork with diverse students.</p>	

Recommendations and priorities for the course development

- The feedback provided for improvement will be considered including more hands-on into robotics, VR, etc.
- Handle international students better and help forming diverse teams that function.
- Be clearer on the assignment learning outcomes and with structure + time planning.
- Try to have industrial visit if that's possible.

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.