

1 Exam Assignment

Exam questions TIK4011 S24

Length: 6000 words (+/-20%)

Language: ESST students must write their exam papers in English, while TIK students may choose between English and Norwegian.

Grades are awarded on a scale from A to F, where A is the best grade and F is a fail.

Assignment

- One week home exam / individual written assignment.
- The exam has three parts, and you are expected to answer all.
- Part 1 and 2 are mainly based on your assignments (case study description and theory application).
- When you are referring to materials in one of your essays, you need to cite the essay properly, even though it is your own essay. Citing your own work must be anonymised. Instead of mentioning your name, you should mention which assignment you have used, for example, (Assignment 2, 2025). You can list the source in the reference list, for instance, by following the format below:

o Assignment No., Year, "title of the essay", TIK4021, UiO.

§ For example: Assignment 2, 2025, "An AI-driven Climate Technology Policy in Norway", TIK4021, UiO.

- To avoid self-plagiarism warning from the system, you need to avoid simple copy and paste actions as much as possible. In case of quoting some of your texts, you need to delimit the borrowed text with quotation marks along with anonymised citation, for instance, "*Findings show that digitalisation is ...*" (Assignment 2, 2025, p. 3).
- The content of your exam should be well structured. You need to write an introduction section introducing briefly the main content including Part 1, 2 and 3.
- With everything excluded (front page, list of references, appendices etc.), the entire exam should be 6000 (+/- 20 %) words, divided as follows:
 - o Introduction should be around 200-300 words. This part of the exam weighs approximately 5% of the grading.
 - o Part 1 should be around 1,300-2,500 words. This part of the exam weighs approximately 30% of the grading.
 - o Part 2 should be around 2,800-3,200 words. This part of the exam weighs approximately 50% of the grading.
 - o Part 3 should be around 500-1,200 words in total. This part of the exam weighs approximately 15% of the grading.

Part 1 – Synthesis of the Essays (30% 1,300-2,500 words)

Part 1 is mainly based on the essays that you wrote for assignments (case study description and theory application). You are expected to synthesize and discuss the individual essays developed in the assignments into a cohesive and integrated document. Consider the following points:

1. Reflect upon the interconnections and relationships between the concepts/theories you have chosen from each module. Discuss how they relate to each other and contribute to a holistic understanding of your case.
2. Identify possible similarities and differences in your findings (e.g., the drivers, potentials, challenges, and barriers) across the four modules and reflect upon how they contribute to a nuanced understanding of your case.

Part 2: Deep Exploration of one of the course modules (50% 2,800-3,200 words)

Focus on one of the modules in the course and explore it in greater depth. Write an essay where you apply notions from that module onto a case. You may choose to build upon one of the essays that you wrote on the theory application assignment, or you may choose a new case if you think your initial case does not suit the requirements of this exercise, for instance due to data accessibility. Consider the following points:

1. Formulate a problem and a research question(s) and an overall goal.
2. Present concepts and/or theories and apply these onto the case.
3. Choose and describe an appropriate research methodology (qualitative, quantitative, or a mixed method) appropriate for your research question(s), data requirements, and the overarching goal. Use, analyse, and interpret relevant secondary data (at least two sources of data such as documents, newspapers, and statistics).
4. Discuss and reflect upon e.g., the drivers, potentials, challenges, and barriers in the development and implementation of, for example, the technology or policy initiative, in your case study.
5. Critically evaluate the effectiveness of the concepts/theories in addressing the issues presented in the case study. Furthermore, provide a brief overview of the strengths/limitations of the concepts/theories you have selected relative to other concepts/theories in the module.
6. Discuss any limitations or areas for further research.

Part 3 – Reflection notes on TIK4021 (15% 500-1,200 words)

Write a reflection note that addresses the following elements. Provide specificities and examples and avoid too much general reflections.

- a) Your outputs: Reflect upon what you have learnt in the course:
 - i. What new insights have you gained that you can benefit from in your future work?
 - ii. Consider whether and how what you have learnt in the course has made you change your mind in some way or another.
- b) Course contents: Reflect upon the relevance of and the connections between the modules in the course.
 - i. What did you find particularly interesting, and what did you find confusing, or less relevant?
 - ii. If you were in charge, what changes would you have made to the course and/or what new elements would you have introduced, and how could this add value to the course?



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Guidelines for the use of AI:

It is permitted to use AI for the following:

- a. As a sparring partner on research questions and problem statements
- b. Identify relevant sources for the assignment
- c. Get an introduction to a topic (without using this directly in the text)
- d. Explain and deepen own understanding of specific terms
- e. Discuss your own ideas in order to be exposed to alternative methods, perspectives or counter-arguments
- f. Check spelling and grammar

It is not permitted to use AI for the following:

- a. To generate the structure for the assignment
- b. Perform the actual analysis
- c. As a text generator

If you want to make use of AI, use GPT UiO or Copilot

- a. GPT UiO <https://www.uio.no/tjenester/it/ki/gpt-uio/>
- b. Copilot: <https://www.uio.no/tjenester/it/lagring-sambarbeid/ms365/aktuelt/info-om-microsoft-copilot.html>

We expect full transparency when using AI. This means:

- a. Explain how you have used AI in the assignment. This can be done in a separate methods section
- b. Reflect on how AI has contributed to the writing and thinking process in the same method section

Reflect on alternative research questions and explain why you chose the one you did.

Feel free to use AI as a tool and help along the way, but make sure that you are the responsible editor for the text you submit. It is important that you are critical towards AI-generated content and that you review and quality-assess this and make it your own.

If AI is used as a substitute for your own analysis, writing and thinking, it will affect your own learning outcomes, and you will not acquire what is expected in order to be able to write your master's thesis.

Although it is permitted to use AI, this does not mean that it is required.

Maximum marks: 0