

TDT11

Digitalization in public sector

Autumn 2022

Course staff

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- Course web page:
- <https://www.ntnu.no/wiki/display/tdt11/>



What is TDT11?

The course is for students who are interested in how the public services in Norway and internationally are evolving into "digitally first" services, and how this affects our societies.

Students Assigned to Theory Modules

Students listed for each module, is number of students who have edited their within the last 8 months. The numbers are continually updated according to t

Click on the number in the *student* column to get a list of participants.

Code	Name	Students
TDT01	Arkitekturer for beregningssystemer	6
TDT02	Avanserte, distribuerte systemer	12
TDT03	Avanserte emner i visuell databehandling	3
TDT04	Avanserte bioinspirerte metoder	10
TDT05	Moderne maskinl�ring i praksis	64
TDT06	L�ringsteknologi	6
TDT07	L�ringsanalyse	6
TDT08	Algoritmisk spilleteori	4
TDT09	System- og sanntidsprogramvareinteraksjon med moderne maskinvare	7
TDT10	Entesning og mangfold i programvareutvikling	8
TDT11	Digitalisering i offentlig sektor	7
TDT12	Datamaskinell kreativitet	11
TDT13	Avansert tekstanalyse og spr�kforst�else	13
TDT16	Utvidet virkelighet (XR)	8
TDT17	Visuell Intelligens	28
TDT20	Virksomhetsarkitektur, Smarte byer og verdibaserte tjenester	2
TDT24	Parallele milj� og numeriske metoder	10
TDT28	Forskning i data undervisning	3
TDT29	Samhandlingsteknologi og l�ring	6
TDT37	Digitalization in practice	11
TDT38	Klinisk prosess- og beslutningsst�tte	0
TDT39	Empiriske studier i IT	36
TDT40	Avanserte emner i programvareprosessforbedring	6
TDT41	Fra nettverk til kausale modeller innen kunstig intelligens	6
TDT42	Spilldesignteori	18
TDT44	Semantisk Web	2
TDT50	IT for b�rekraftig utvikling	5
TDT55	Kunnskapsintensiv CBR	0
TDT63	Kvalitet av modeller og modelleringsspr�k	0
TDT71	Utvikling av spill	30
Selections:		328
Students:		174

Two examples

- A concept:
 - Digital nudge in the public sector

Master's thesis

Heidi Lohne Brække and Ingrid Asklund Larssen

Digital Nudging in the Public Sector in Norway

Master's thesis in Informatics
Supervisor: Babak A. Farshchian
June 2021

- A service:
 - Frida

Master's thesis

Dusan Jakovic
Gajaen Chandrasegaram

Chatbot as a Channel in Government Service Delivery

Findings from interviews with citizens, Skatteetaten and NAV

Master's thesis in Computer Science
Supervisor: Babak A. Farshchian
June 2021

Learning objectives

- Gaining knowledge about various digitalization cases and technologies in the public sector.
- Gaining knowledge about digitalization processes, and how these can be different from the private sector.
- Gaining knowledge about concepts such as public value, open government, agile government.

Learning activities

- Choosing topic and developing conceptual framework:
 - Based on the chosen topic, search for and summarize main literature and distill main concepts within the topic.
- Research:
 - Based on the chosen topic, do relevant research (documents, interviews etc.) and document the results.
- Writing:
 - Write a 4-pages summary of your research and revise this based on peer review reports.
 - Write a peer review report for one other student.

Timeline

- Choose topic through dialog: September 9 + follow-up presentation meeting September 14, 15:15.
- Draft of essay, max 4 pages: October 24.
- Peer review: Week 43-44, deadline November 4.
- Final essay, max 4 pages: November 20.
- Oral presentation: Date to be announced.

Assessment

- Essay: 70%
- Peer review report: 15%
- Oral presentation: 15%
- For the essay:
 - Clear description of the topic or case, why it is important, and how it relates to digitalization in public sector.
 - Clear descriptions and definitions of central concepts, references to relevant research.
 - Description of what research you have done and how.
 - Own reflections, binding the above points together and pointing to findings, challenges, recommendations etc.
- For the presentation:
 - You present to the group of students in the course.
 - Maximum 10 minutes presentation of what you have done+ 5 minutes of questions.
 - Focus on clarity of objectives, questions, concepts.
 - Focus on clear line of argumentation, and clear flow in the presentation.
 - Present for a non-expert.

Topics can be

- A case study of an existing digital service, using a specific perspective such as public value or agile government.
- A case study of an existing digital technology, using a specific perspective such as public value or agile government.
- An essay on a concept, e.g. agile government, digital justice, digital public encounters.