

TDT44 - Semantic Web

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Course Introduction

TDT44 Semantic Web: a Specialization module complementary to [TDT4175 Information Systems](#). Other IS modules can be found [here](#).

TDT44 will be taught by Özlem Özgöbek in the fall 2019.

We will use the following book: <https://link.springer.com/book/10.1007/978-3-319-45654-6> (free electronic copy for NTNU students)

Schedule (2019)

Date	Title
24.09.2019, 13:15 Room ITV 122	Introductory meeting
24.10.2019, 13:15, ITV 054	Student presentations Topic 1: RDF (Børstad) Topic 2: RDFS (Kohmann) Topic 3: OWL (Kråbøl)
31.10.2019, 13:15, ITV 242	Student presentations Topic 4: SPARQL (Le Ray) Topic 5: Linked open data (Skaslien) Topic 6: Semantic web tools and usage examples (Standal) Topic 7: Knowledge graphs for conversational systems (Mahic)
25.11.2019	Deadline for sending reports of the individual assignment
28.11.2019	Oral exam (check details below) https://www.ntnu.no/studier/emner/TDT4506#tab=omEksamen

Readings in TDT44 Semantic Web (2019)

The book we will use is: [Exploiting Linked Data and Knowledge Graphs in Large Organisations](#).

Please order the book now, so you have it ready for the first class in September!

You can also download it for free on the NTNU-network from here: <https://link.springer.com/book/10.1007/978-3-319-45654-6>

You may also read two papers, on Logics and [Turtle](#), and if you are interested (proposed by a student 2016):

- [The Unreasonable Effectiveness of Data.pdf](#) is not really about the Semantic Web, but I post it here as a good read for those who like that.
- <https://www.w3.org/TR/owl2-primer/> might be useful when comparing RDF vs. Turtle etc.

Obligatory Individual Assignment 2019

[Obligatory assignment is now available.](#)

The deadline is 25.11.2019. Please send your reports by e-mail.

About the Exam (2019)

Oral exam will take place on 28 November 2019. This will be the only exam in this course. The schedule for the exam will be announced through the official channels a few days before the exam, it won't be announced on this page.

For the sensors to read your reports before the oral exam, you need to send them a few days before the exam by e-mail to ozlem.ozgobek@ntnu.no.

The deadline for sending the reports is **25 November 2019, 07.00 AM**.

Presentation Details

During the oral exam, each student will have **20 minutes**. This includes the presentation of the individual assignment and questions from the sensors. For the presentation you don't need any slides, so **don't prepare any slides**. We will ask you to explain your assignment orally, you can use a **white board** if needed. Please bring a **printed copy** of your report with you. Questions from sensors will include details from your assignment and some basic knowledge from the book.

Oral Exam Schedule

Date: 28.11.2019

Room: [IT-bygget 114](#)

11.00-11.20 Eivind Børstad

11.30-11.50 Marius Kohmann

12.00-12.20 Ivar Haga Kråbøl

12.30-12.50 Claire Le Ray

13.00-13.20 Kenan Mahic

13.30-13.50 Mats Jørgen Skaslien

14.00-14.20 Anders Grytten Standal

Presentations from 2018

Title	Slides
Introduction 2018	IntroductionTDT44.pdf

Presentations from 2017

Title	Slides
Intro	TDT44-Intro.pdf
1: Enterprise Knowledge Graph: An Introduction	Kap 1 og 2
2: Knowledge Graph Foundations	Kap 1 og 2
3: Knowledge Architecture for Organisations	Kap 3
Extra: Turtle	Turtle presentation.pptx
Extra: SPARQL	SPARQL.pdf
4: Construction of Enterprise Knowledge Graphs(I)	Kap 4
5: Construction of Enterprise Knowledge Graphs(II)*	Kap 5

6: Understanding Knowledge Graphs	Kap 6
7: Question Answering and Knowledge Graphs	Kap 7
8: Success Stories	Kap 8
9: Enterprise Knowledge Graph: Looking into the Future	Kap 9

Student list and exam grades (2019)

Name	Oral Exam Grade
Eivind Børstad	89
Marius Kohmann	81
Ivar Haga Kråbøl	75
Claire Le Ray	81
Kenan Mahic	70
Mats Jørgen Skaslien	90
Anders Grytten Standal	87

From complete list on https://www.idi.intra/teaching/theorymodule_participants.php? Code = TDT44

Teachers (2019)

Özlem Özgöbek (Teacher), [ozlem.ozgobek](mailto:ozlem.ozgobek@ntnu.no) at ntnu.no, room [ITV-158](#)
(Professor Jon Atle Gulla (Examiner), [jag](mailto:jag@ntnu.no) at ntnu.no, room [ITV-114](#))

TDT44 Individual Assignment 2017

- To get more information about the last year's assignment please [click here](#).
- [Example solutions for the assignment of 2017](#).

External links

[Part 1](#) and [part 2](#) of this tutorial can be relevant for our class:

- [Horrocks, Ian](#) (2010); [Semtech 2010](#) tutorial [part 1](#) and [part 2](#) on Description Logics and OWL