Semantic Web

KEN3140

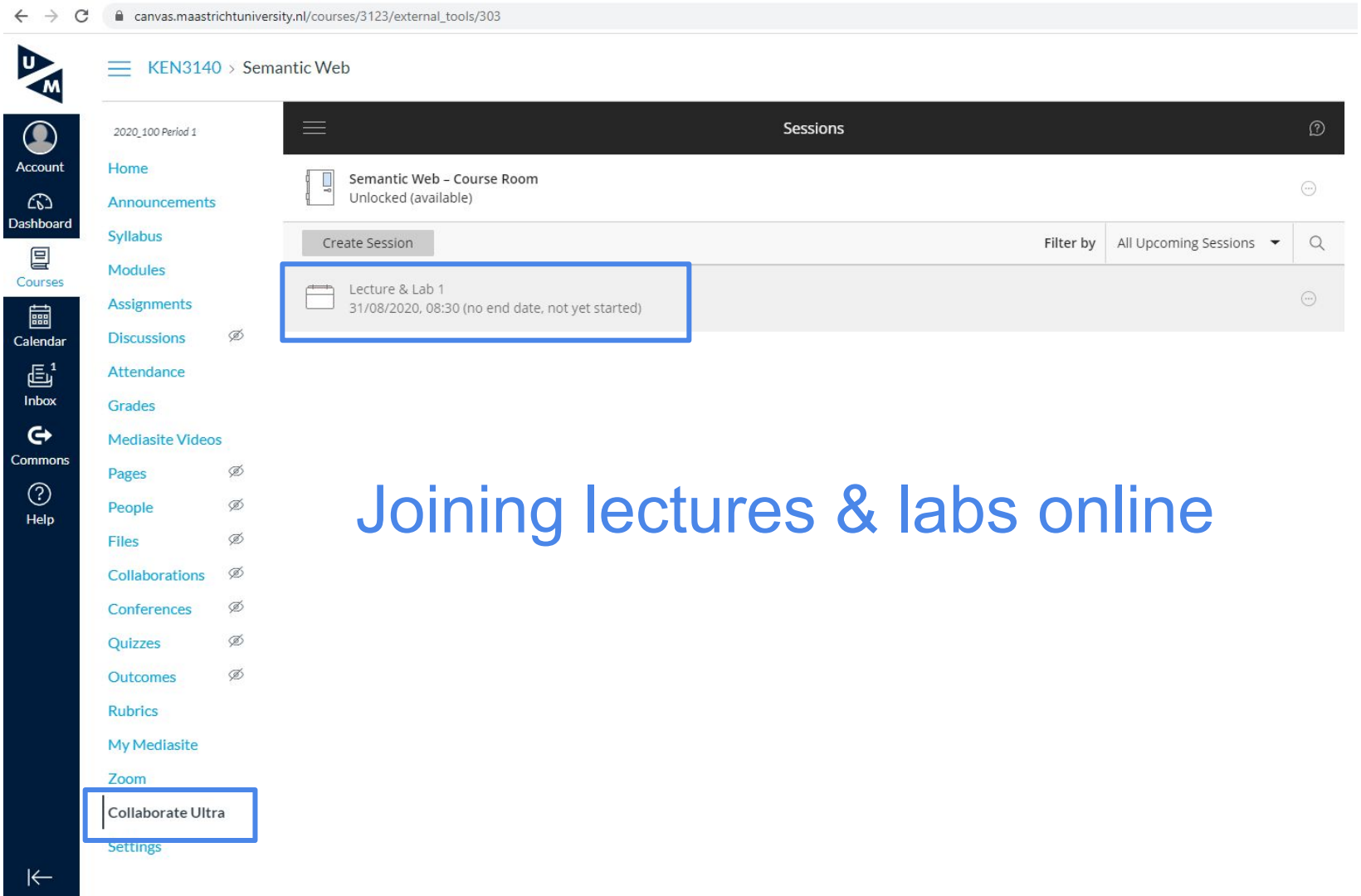
Lab 1: Installing and running Jupyter Notebooks, IJava and Python

Kody Moodley, Vincent Emonet

Maastricht University

Institute of Data Science

A word on Canvas



Joining lectures & labs online

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Course syllabus

Jump to today | Edit

Course Description & Learning Objectives

Course Schedule

Minimise file preview

ZOOM

Week	Date	Timeslot	Content	Topics	Room
1	31/08/2020	Mon, 08:30 - 09:30	Lecture 1: Introduction	Course organisation Evaluations The World Wide Web The Semantic Web Ontologies Some application areas	Online
	31/08/2021	Mon, 09:30 - 10:30	Lab 1: Introduction to Jupyter Notebooks	Setup Jupyter notebook & IJava	Online
	3/9/2020	Thu, 08:30 - 09:30	Lecture 2: Introduction to RDF	Resource Description Framework Data types Reification RDF representations Turtle syntax of RDF statements N-Triples Turtle XML JSON-LD	C1.005/Online
	3/9/2020	Thu, 09:30 - 10:30	Lab 2: RDF Syntax; Introduction to Assignment 1	Importing RDF data, creating RDF graphs, add edges and nodes etc.	C1.005/Online
2	7/9/2020	Mon, 11:00 - 12:00	Lecture 3: RDF Schema & Semantics	RDF Schema Semantics for RDF and RDFS inference rules Schema.org	C1.005/Online
	7/9/2020	Mon, 12:00 - 13:00	Lab 3: RDF Reasoning	RDFS reasoning in practice using Python / Java libraries in Jupyter	C1.005/Online
	10/9/2020	Thu, 08:30 - 10:30	Open Lab: Assignment 1 - RDF syntax and semantics	Creating an RDF graph, assessing its quality and using RDFS reasoning to infer new statements.	C1.005/Online
3	14/09/2020	Mon, 11:00 - 12:00	Lecture 4: Introduction to SPARQL	Querying RDF graphs with SPARQL, SPARQL syntax and language constructs	C1.005/Online
	14/09/2020	Mon, 12:00 - 13:00	Lab 4: Introduction to SPARQL; Assignment 2	Querying RDF graphs with SPARQL, SPARQL syntax and language constructs	C1.005/Online
	17/09/2020	Thu, 08:30 - 09:30	Lecture 5: Advanced SPARQL	Advanced features of the SPARQL specification	C1.005/Online

August 2020

27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	1	2	3	4	5	6

Course assignments are not weighted.

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Welcome to the Semantic Web course!

Kody Moodley

28 Aug at 18:08

All sections

Dear all,

A very warm welcome to all of you to this Bachelor course on the Semantic Web!

Despite the inconveniences introduced by the pandemic, we are looking forward to delivering to you a hopefully fun, engaging and interesting course!

It will be delivered in a "hybrid" fashion both online and in person (in Room C1.005) and will have a decidedly practical slant with lots of hands on tutorials.

For more information about the schedule, course and learning objectives, you may consult the Syllabus section of Canvas. We will be adding more materials here and in other sections of this portal in the near future.

For those that wish to add the schedule to your calendar application (e.g. Google Calendar), you may use the following link: iCal link

Have a good weekend and see you on Monday!

Kody & Michel

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Write a reply...

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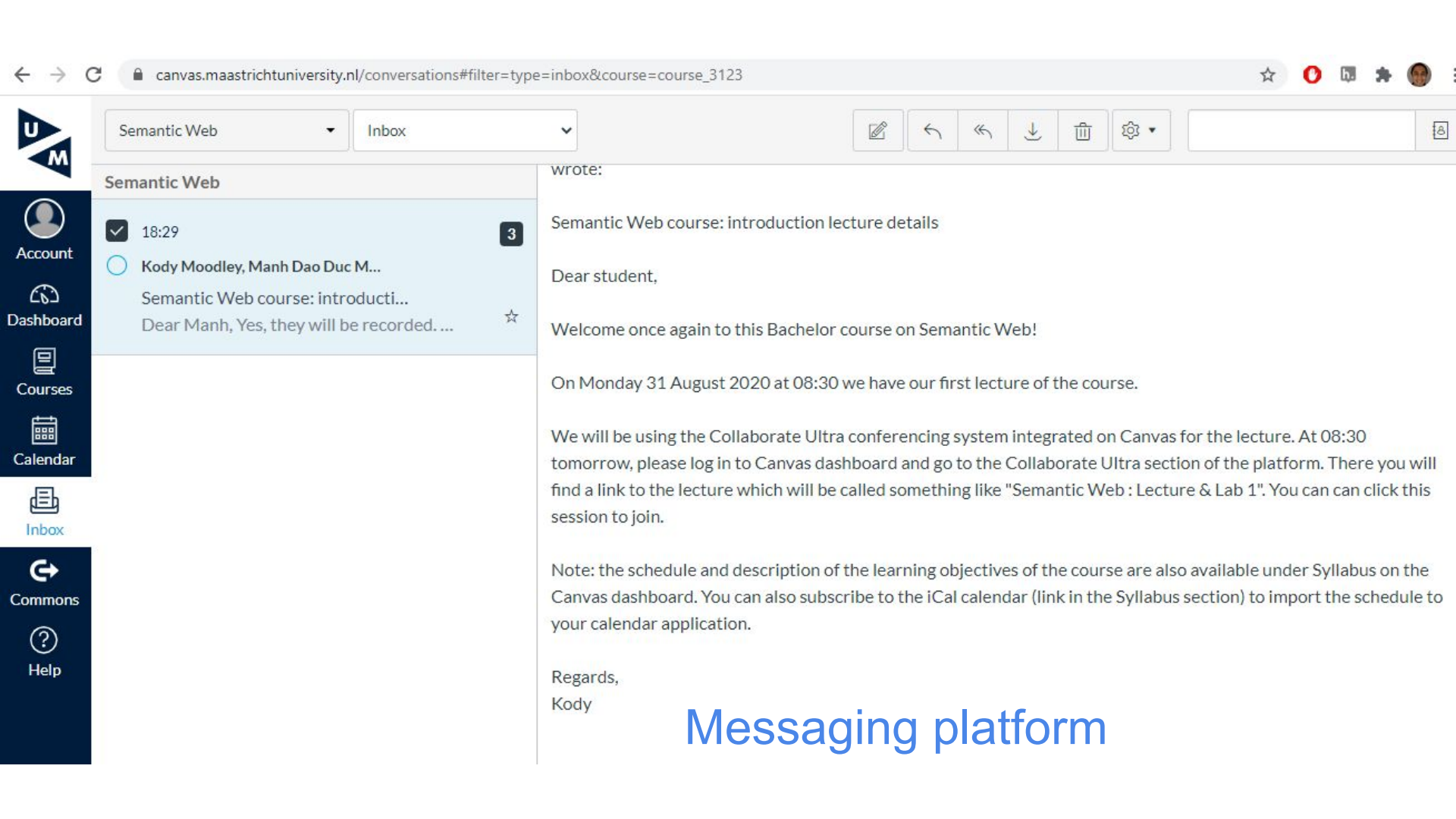
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3
Kody Moodley, Manh Dao Duc M...
Semantic Web course: introducti...
Dear Manh, Yes, they will be recorded. ...
wrote:
Semantic Web course: introduction lecture details
Dear student,
Welcome once again to this Bachelor course on Semantic Web!
On Monday 31 August 2020 at 08:30 we have our first lecture of the course.
We will be using the Collaborate Ultra conferencing system integrated on Canvas for the lecture. At 08:30 tomorrow, please log in to Canvas dashboard and go to the Collaborate Ultra section of the platform. There you will find a link to the lecture which will be called something like "Semantic Web : Lecture & Lab 1". You can can click this session to join.
Note: the schedule and description of the learning objectives of the course are also available under Syllabus on the Canvas dashboard. You can also subscribe to the iCal calendar (link in the Syllabus section) to import the schedule to your calendar application.
Regards,
Kody
Messaging platform

Back to today’s Lab

Learning objectives

- How to install and run Jupyter notebooks
- How to install IJava kernel for Jupyter
- Basics of how to use Jupyter notebooks
- These tools will be required to complete the Lab and Assignment tasks you will receive throughout the course

Some polls to begin

Background knowledge:

- Have you taken a previous course on Java?
- Do you know how to code in Python?
- Have you used Jupyter notebooks before?
- Have you used Docker before?

Some polls to begin

Technical setup:

- Are you using Windows, Linux or Mac?
- Do you have neither Docker, Anaconda, nor JupyterLab installed?
  - **None of these? Do the whole guide on Slide 13 from scratch**
- Do you have Docker installed and running?
  - **Yes? Skip to Option 1, Step 3 in the guide on Slide 13**
- Do you have JupyterLab already installed?
  - **With Anaconda? Do Option 2 in the guide on Slide 13, Steps 2 - 5 (skip Step 3)**
  - **Without Anaconda? Preferably follow the guide from scratch (contact Andreea)**
- Do you have Anaconda installed?
  - **With JupyterLab? Do Option 2 in the guide on Slide 13, Steps 2 - 5 (skip Step 3)**
  - **Without JupyterLab? Do Option 2 in the guide on Slide 13, Steps 2 - 5**

Tutorial

I will create three breakout groups on Blackboard Collaborate:

Windows (Andreea), Mac (Remzi), Linux (Vincent)

Please join the group with others using your operating system. An instructor will be assigned to each breakout group to coordinate that discussion. You will post questions and comments related to this lab in that breakout group.

Tutorial

Here is a link to the guide for this lab: https://tinyurl.com/y6jusnbr

Please follow the guide exactly! If you don't, it will be much harder to assist you with getting up and running.

- If you run out of time in this session, please continue in your own time
- Please complete the installation **before** the next Lab / Lecture
- If you have any issues outside of this session, contact an instructor via email
  - Windows: Andreea Grigriou (a.grigoriu@maastrichtuniversity.nl)
  - Mac: Remzi Celebi (remzi.celebi@maastrichtuniversity.nl)
  - Linux: Vincent Emonet (vincent.emonet@maastrichtuniversity.nl)
  - General issues: Kody Moodley (kody.moodley@maastrichtuniversity.nl)

End poll

How many were able to successfully run both Java and Python code examples in the Usage section of the guide?