



!!! Record this lesson !!!



Trends in AI



Course Conspectus

Navigating the AI frontier: A roadmap to tomorrow's tech trends



**UNIVERSITY OF APPLIED
SCIENCES AND ARTS**

Elfde-Liniestraat 24, 3500 Hasselt, Belgium, www.pxl.be



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Course positioning



- First (and only) trends (or “*Capita Selecta*”) course
- 3th year
- 1st semester (September - January)
- 14 weeks
- 3 ECTS (European Credit Transfer and accumulation System)
- 2h/w: Thursday 10u30 – 12u30 (@Corda 7 - iClassroom3)
- ± 3.5h/w: self study or project work

Team (Apparently, there is only an I in this team.)



- Tim Dupont
- AI researcher @ PXL Smart ICT
 - Data Science (incl. GenAI)
 - Computer Vision
 - Smart Robotics
- Liaison between PXL Smart ICT & PXL Digital
- AI lecturer @ PXL Digital (This course, Smart Devices, ...)
- Formal education
 - Industrial Computer Science
 - Applied Computer Science
 - Human Computer Interaction
 - Mobile Autonomous Systems and Cognitive Robotics

Course contents

TRENDS





 Hacker News

Gartner®



McKinsey
& Company



-  Trends in AI 
- Which trends to follow?
 - (Gartner) Hype cycle
 - Technology readiness levels
 - Sustainable Development Goals (SDGs)
- How to follow trends?
- Where to follow trends?
- How to keep track of all those interesting things
- Past trends vs Now
- Current trends
 - By yourself/as a group: Let's follow them!
 - Guest lectures

Types of assignments



- **[M] Mandatory**
(To master the course materials.)
- **[R] Recommended**
(Advised in order to reach the goals.)
- **[C] Challenges**
(Ideal to get a deeper understanding.)
- **[F] Fun**
(Fun extra assignments.)

Most assignments are without grading!

Evaluation



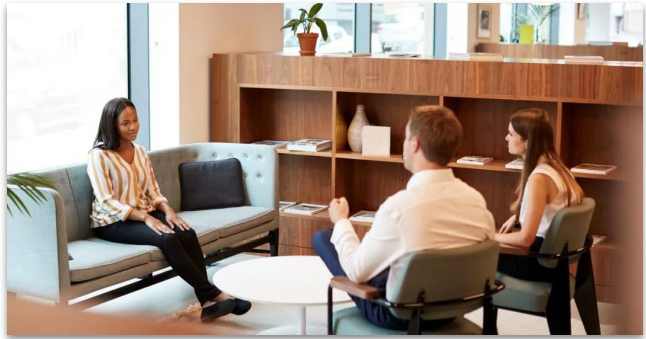
%	Periode	Type
50	June	Group project (individual assessment)
50	June	Oral Exam (closed book)
50	Aug/Sep	Individual assignment
50	Aug/Sep	Oral Exam (closed book)

Group project [M|R|F?|C!]



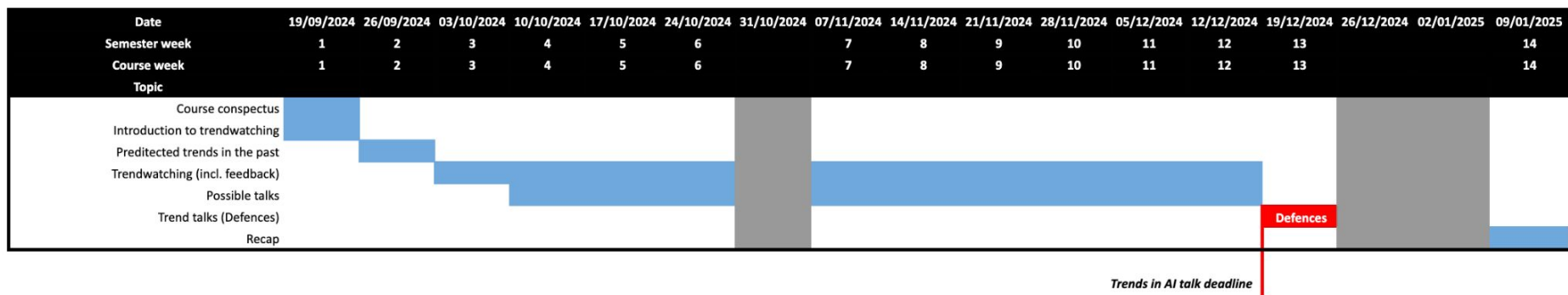
- **Small groups*** of 3-ish (Same as MLOps, Smart Devices)
- **Goal**
 - a. To assess your practical trend following skills
 - b. Do real-world trendwatching / research
 - c. Create learning goals for the course (for all other students!)
 - d. Communicate the trends to others
 - e. Give feedback to other teams on goals and content.
- **Assignment**
 1. Dive into an AI trend you want to learn more about
 2. Create content and goals about it.
 3. Share the knowledge (to students & possibly researchers!)
 4. Give feedback to other teams
 5. Receive feedback (from students & possibly researchers!)
- **Start:** 03/10/2024 - **Deadline:** 18/12/2024 @ 23h59!
- **Project defence:** Trend talk (19/12/2024)

Oral exam [M|R|F?|C?]



- Closed book oral exam
- No memorizing of formulas or code needed!
- **Grasp all the goals!**
Understand/Know **all goals defined by all the groups in the knowledge base.**
- **Big picture thinking**
Apply the course materials in real-world/other settings, no real code required.
- **Comprehension over memorization**
It's important to know the 'what', 'how', and 'why', rather than just regurgitating the course materials!
- Each presentation & the KB has explicitly defined goals
→ *These **are used** to create the exam questions!*

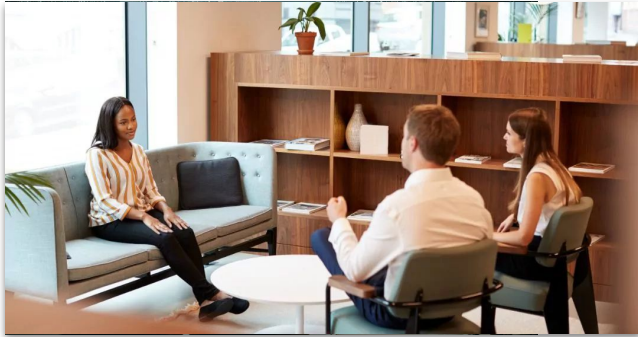
Schedule



Guest lectures



SMART ICT



- Talks by people from the industry or research
- Wide spectrum of trends in AI & AI topics
- **Extra input for topics, trends and goals**
- **Could be organized outside of the normal hours**
- Open to other seniors (lecturers and researchers)
- Could be open to other students (TBA)
- Hopefully open to others companies...
- Could be a Corda Keynote
- **Schedules: TBA!**

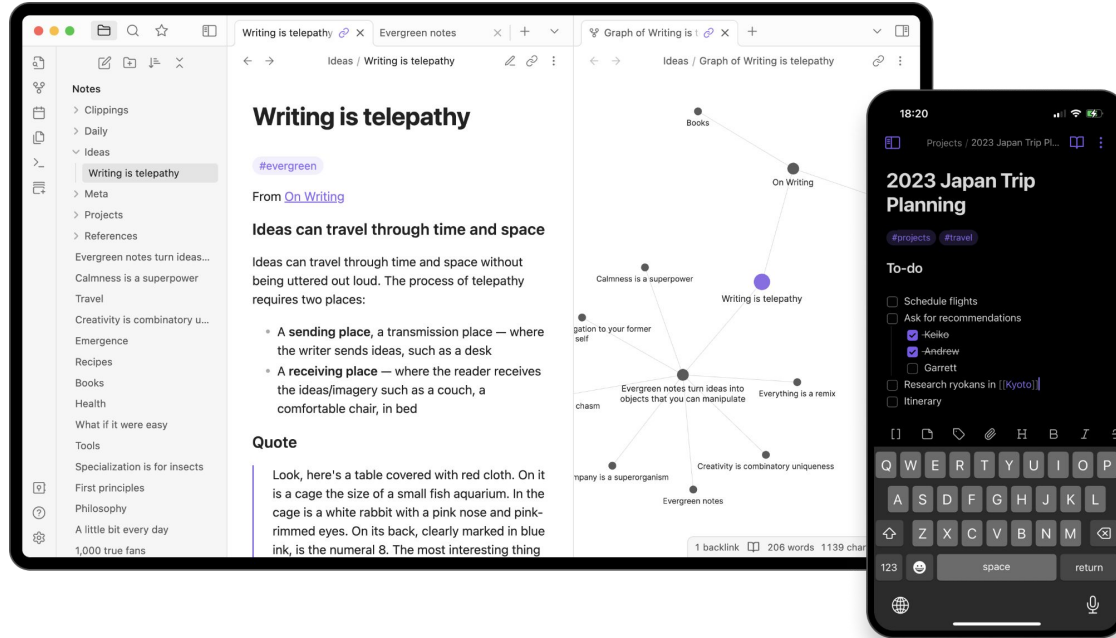


Software

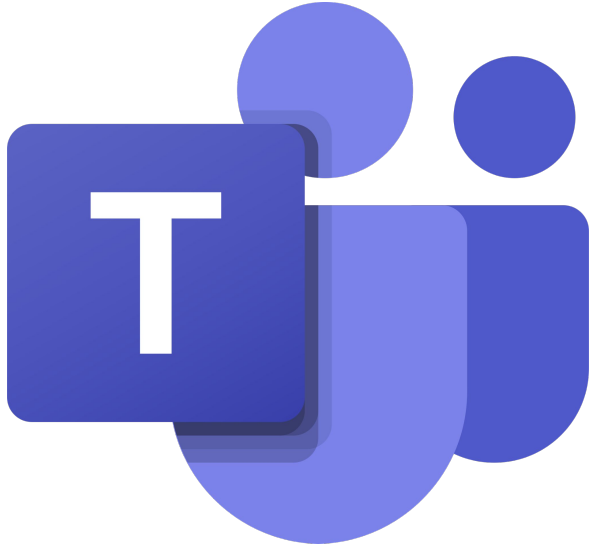


- Git (GitHub)
- Obsidian
- Markdown

Obsidian (Free for personal use)



Microsoft Teams code



gzxk1o3

Enrolment + Github usernames



<https://shorturl.at/YV2VN>

Course materials

The screenshot shows the GitHub profile page for 'PXL AI & Robotics Course'. The page header includes the GitHub logo, a search bar, and navigation links for Pull requests, Issues, Marketplace, and Explore. The profile section displays the PXL logo, the course name, and a description: 'The AI & Robotics course of PXL Digital at PXL University of Applied Sciences and Arts'. Below this, there are tabs for Overview, Repositories (162), Packages, People (5), Teams (2), Projects, and Settings. The main content area shows a message: 'PXLAIRobotics does not have any pinned repositories yet.' A large red stamp with the text 'PRIVATE & CONFIDENTIAL' is overlaid diagonally across the page. On the right side, there are sections for 'People' (with an 'Invite someone' button), 'Top languages' (listing Jupyter Notebook, Python, CMake, Dockerfile, and Go), and 'Most used topics' (listing ros, multi-agent-systems, python, robotics, and turtlebot3). The footer of the page includes the GitHub logo, copyright information for 2022 GitHub, Inc., and links for Terms, Privacy, Security, Status, Docs, Contact GitHub, Pricing, API, Training, Blog, and About.

[INFO]

Source: <https://github.com/PXLAIRobotics/TriAICourseMaterialsForStudents-2425>

Anonymous form



Trends in AI Course Fall 2024

It's allowed to interrupt me during class. I appreciate 100% honest and direct feedback. For some students, there may still be a barrier. Therefore, I created this completely anonymous Google Form to submit feedback, critique, requests for clarification, suggestions, etc. Please use it! I will read it and act on it accordingly.

[Log in bij Google](#) om je voortgang op te slaan. [Meer informatie](#)

*** Verplichte vraag**

Feedback, critique, requests for clarification, suggestions, etcetera. *

Jouw antwoord

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