



COURSE 1

AI LEADERSHIP

Study load: 3 credits

Total study load: 75 hours

EU-Partner(s): HOWEST, NUP

TC-Partner(s):

PREREQUISITES

- No prerequisites

STUDY MATERIALS

- Moodle course – digital course
- Presentations
- Elaborated examples and cases
- Weblinks
- Video recordings
- Demos

TECHNICAL REQUIREMENTS / LAB EQUIPMENT

- Microsoft Office

LEARNING OUTCOMES

- Students know and understand the basic high-level concepts of AI technologies
- Students have knowledge of AI-related terminology

- Students have a high-level understanding of the machine learning pipeline
- Students are able to estimate both the economical added value and risks of an AI solution
- Students will be aware of the types of data needed for training a specific AI solution
- Students know how to apply the AI value canvas to map out an AI strategy for a specific problem
- Students know the possibilities and limitations of AI
- Students know when AI can be applied to context specific problems
- Students have knowledge about how AI projects differ from conventional IT projects
- Students are aware of the pitfalls of AI projects
- Students know the current state of AI and have good knowledge about the possibilities of cutting edge AI technologies and future trends

ACTIVITIES

- Activating lectures
- Labs

CONTENT

- AI concepts
 - Possibilities of AI
 - Knowing when AI can be applied (and when not)
 - Terminologies
 - Learning paradigms
 - Machine Learning Pipeline
- AI in context
 - Examples of AI-specific solutions, applications and technologies
 - Bear in mind: AI-specific project requirements, dangers and constraints
 - AI value canvas
- AI in action

- Experimenting with state-of-the-art AI frameworks and technologies

EVALUATION

First exam chance

FORM	%	REMARK
Exam	60.00	
Continuous assessment	40.00	Various interim assignments

Second exam chance (re-sit exam)

FORM	%	REMARK
Exam	60.00	
Continuous assessment	40.00	Various interim assignments