

Breda University of Applied Science Introduction

'Course Basic AI for <del>Teaching</del> all Staff'

24 July 2024



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### Tanja Beks



**Current position:** policy officer Education Breda University of Applied Sciences

Support for AI Endeavour Team -LEGO® SERIOUS PLAY ® Facilitator



Background, 20 years of lecturer experience in higher education in the Netherlands, special interest in Al in Education & innovative testing







### Breda University of applied sciences

### **Breda**, the Netherlands

Since **1966** 

**7,089** students

1,822 international students (26%)

103 countries of origin

885 employees

182 international employees (21%)

🚯 177 partner universities



## BUas Domain Expertise





Leisure & Events







Data Science & Al



Hotel



Media

Logistics



**Built Environment** 



Facility



### Agenda





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Copy URL

Part of Chapter I: General Provisions

### Article 4: Al literacy

Date of entry into force:According to:Inherited from:January 2025Article 113(a)Chapter I

Note: This date is an estimate based on the expected date of entry into force. See here for a full implementation timeline.

#### SUMMARY +

Providers and deployers of AI systems shall take measures to ensure, to their best extent, a sufficient level of AI literacy of their staff and other persons dealing with the operation and use of AI systems on their behalf, taking into account their technical knowledge, experience, education and training and the context the AI systems are to be used in, and considering the persons or groups of persons on whom the AI systems are to be used.







#### Article 4: AI literacy | EU Artificial Intelligence Act





## Set up training team









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Design and maintain LMS system for e-learning and organization



Take care of the organizational part









- **1. Knowledge in Al**
- 2. Impact of AI
- 3. Process of AI
- 4. Flexibility:
- 5. Student Relevance
- 6. Teacher-Student Communication
- 7. AI Developer and Researcher
- 8. Al User
- 9. Al Ethical Designer





- 1. Knowledge in AI: Educators understand fundamental AI concepts, including definitions, development processes, and technical understanding. They recognize the impact of AI on society, consider social implications, and address ethical biases.
- Impact of AI: Teachers analyse how AI affects
   teaching and learning. They foster critical thinking about AI's ethical consequences and adapt their teaching methods accordingly.
- 3. Process of AI: Educators comprehend AI algorithms, machine learning, and neural networks. Encouraging students to engage in AI-related projects and problem-solving enhances their understanding.





4. Flexibility: Teachers embrace adaptability. Integrating AI tools into the learning environment and adjusting strategies based on student needs. 5. Student Relevance: Connect Al concepts to real-world contexts relevant to students' lives. Promoting digital literacy and responsible AI to students. 6. Teacher-Student Communication: Facilitate open dialogues about Al's impact and ethical considerations to encourage student engagement. Creating a supportive environment for discussing AI.





7. AI Developer and Researcher: Introduce students to coding, programming, and AI development. Collaboration with experts in the AI field to enriche learning experiences.

8. Al User: Equipping students with practical AI literacy skills to enables them to interact with AI tools effectively. Critical evaluation of AI-generated content.

9. Al Ethical Designer: Teachers discuss bias, fairness, human agency and transparency in Al. Encouraging students to design or become a user of ethically sound Al systems to prepare them for responsible Al use.



		Fundamentals
••		1. Understand how to choose relevant AI tools based on
		specific tasks. (understand)
		<ol><li>Apply AI tools in a controlled and responsible manner</li></ol>
		within the domain. (Apply)
		3. Recall fundamental AI principles, including safe usage
•	Technical	and ethical considerations. (analyze)
	Pedagogical	<ol> <li>Recognize the impact of AI on education. (Remember)</li> <li>Understand how AI enhances personal and professional practices.</li> <li>Understand how to instruct students on AI usage in referencing AI in academic work. (Apply)</li> </ol>
•	Content	<ol> <li>Recall fundamental AI principles, including safe usage and ethical considerations. (analyze)</li> <li>Recall ethical problems related to AI and remember Concepts of theories of LLM's.</li> <li>Assess ethical implications of AI in practice. (Apply)</li> </ol>



## BUas-wide fundamental course for all staff

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## E-learning 1,5 hour

### Workshop 2 hours



## **Topics of the E-learning**



- Introduction into AI
- Why AI matters
- Ethics & Al
- Machine Learning
- Chatbots & LLM
- Creativity & Imagination
- Neural Networks
- Training data & bias
- Computer Vision
- Equal access & algorithmic bias





### **Example of a CLiP**



After finishing the video and questions, you can press escape to return to the course overview.

Escape will always minimize full-screen video if you selected full-screen video. A message will pop up to inform you that a new component is unlocked. You can navigate on the left side, or you can click the message to access the unlocked content.



## Topics of the workshop



- Difference between traditional education
   without AI and education with AI
- How AI affects education into a teacher
   contored approach
- centered approach
- Opportunities and challenges in the daily use
- Explanation about Copilot and exercises with Copilot
- Prompt engineering exercises
- Image building examples and exercises
- Ethical consequences







## E-learning videos all made by Code.org 422K subscribers

How Al works 1.29 min Why AI matters 2.02 min Ethics & AI 3.27 min Machine Learning 2.52 min Chatbots & LLM 7.20 min Creativity & Imagination 5.17 min Neural Networks 5.04 min Training data & bias 2.40 min Computer vision 6.24 min Equal access and algorithmic bias 3.23 min





# Thank You

### For Your Attention



