AI BASIC

No prior theoretical background is required.
Target group: e.g. interested MINT teachers, secondary school students but also apprentice and re-train people who are already in daily business.
The objectives refer to a cultural and creative integration of Robotics concepts. The goal is to enable and motivate people, to foster creativity and curiosity and that people are able to understand the technology and use AI systems and AI technology.

The graduate of the AI Basic training…

1. Is able to describe AI, to recognize AI systems and to distinguish AI systems from other concepts and systems.
   - I can describe artificial intelligence:
   - I can recognize if a given system is based on artificial intelligence

2. Knows the areas of application of AI and their use-cases and is aware of the technical, social, ethical and legal implications.
   - I can name areas of AI and give specific examples of AI applications:
   - I can understand technical, social, economic ethical and legal implications of the application of AI:

3. Is able formalize a problem and is able to apply algorithms and data structures to solve this problem.
   - I am aware of different problem representations.
   - I am able to formalize a search problem.
   - I can explain basic data structures.
   - I can use algorithms to solve a search problem.
   - I can assess the basic properties of search algorithms.

4. Is able to design and practically implement a simple AI system for a given application.
   - I am able to translate an algorithm into code: programming paradigms, using libraries, …)
   - I can implement a simple AI system.
   - I can assess the correctness of my solution.