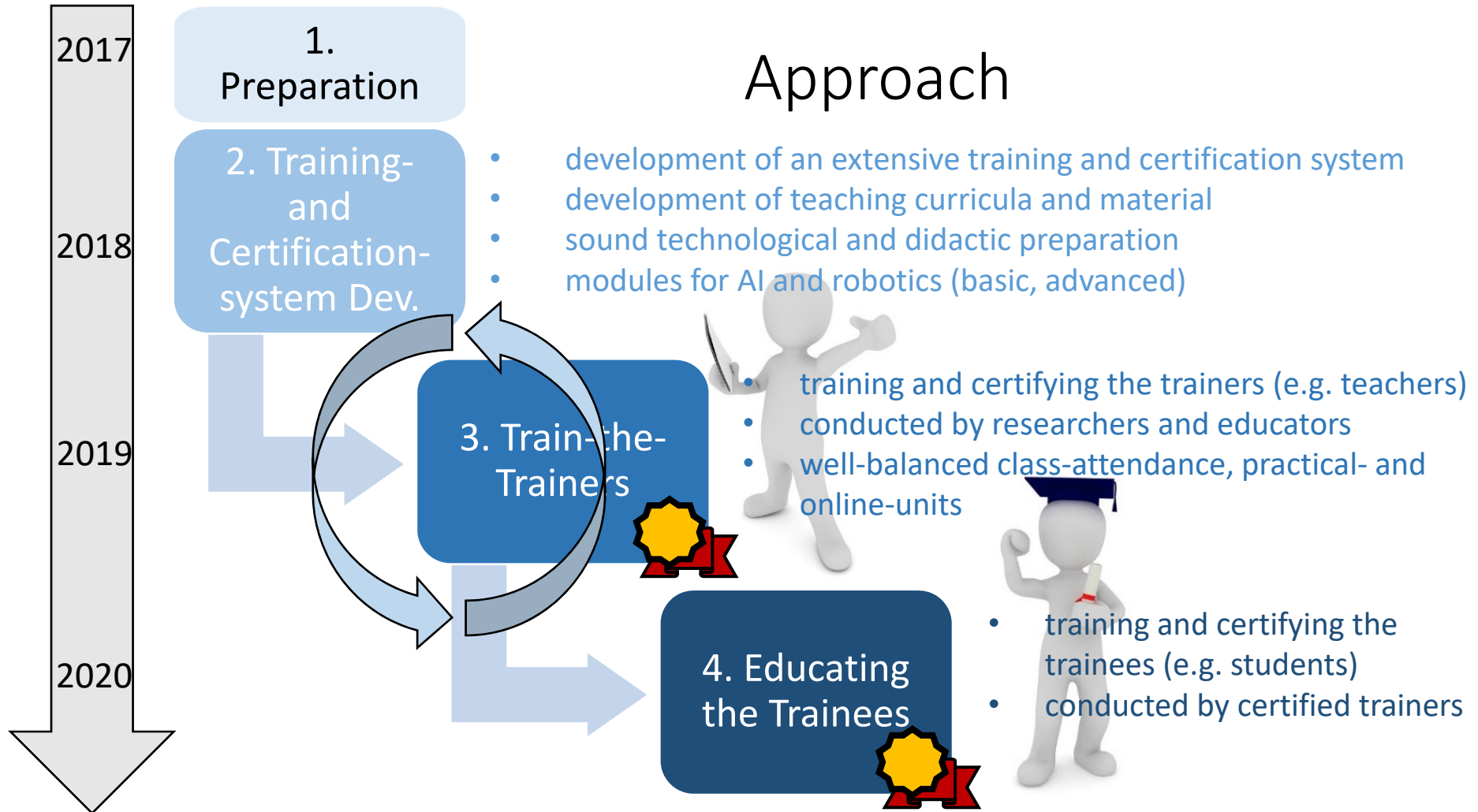


Approach



Curricula (Stage 1,2)

Survey, Educational
Curricula, Advisory Board

Objectives, Core
Competencies

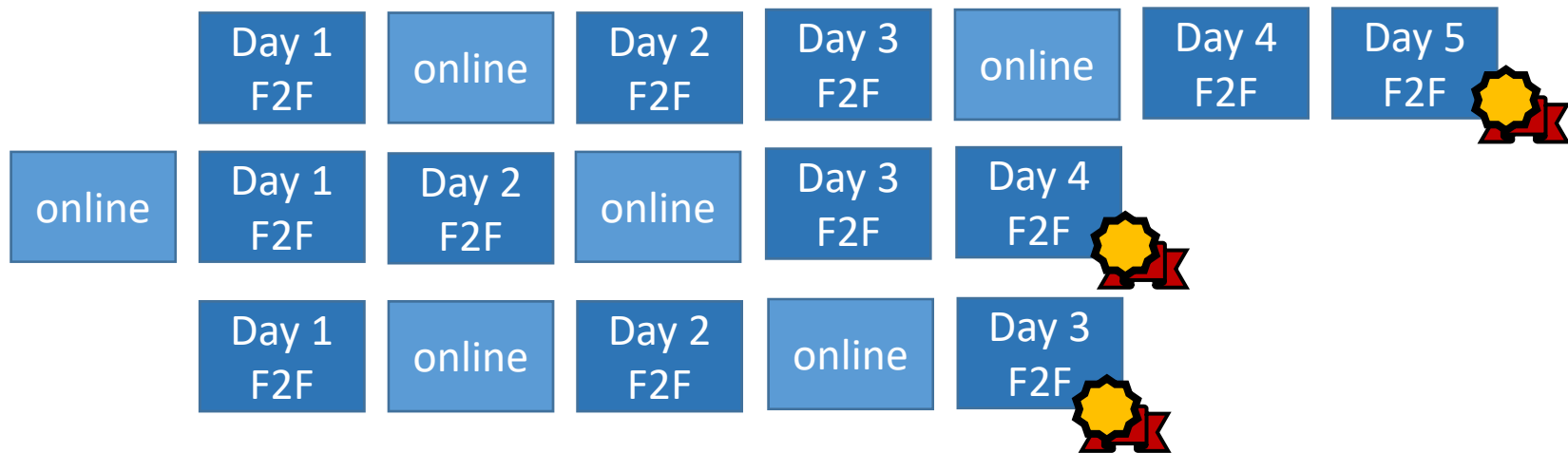
Topics, Contents,
Schedule

Age, Skill Level, Prior Knowledge, Educational
Curricula, Reference Textbooks

EDLRIS course structure

each module of AI and Robotics (Basic, Advanced) :

- 30-40h (3-5 days) of face-to-face units at partner institutions
- 20h-50h online units (guided online session)



Characteristics

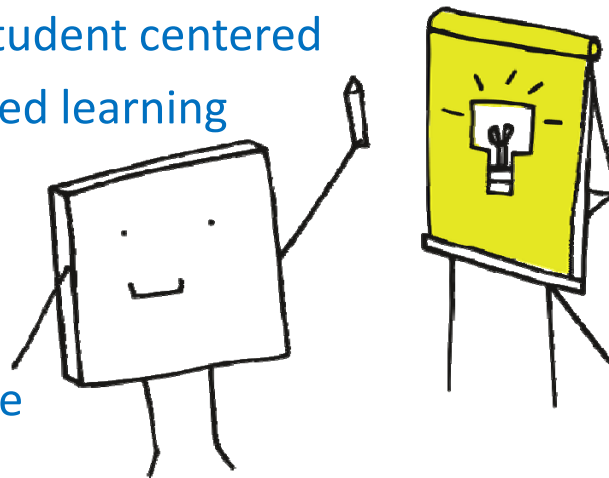
- providing learning **curricula** and **teaching material** to trainer:
 - ready-to-use teaching guides
 - scripts and tutorials, tools
 - exercises and solutions
 - presentation slides
- training and certification for trainers and trainees **for free**
- **non-commercial use of material**















Methods and Tools

principles of **constructionism** – activity based

- **blended learning**
- **flipped classroom**
- competency-based, student centered
- problem-/project-based learning
- discovery learning
- teamwork
- active plenum
- attentive micro lecture
- whole brain teaching
- **learning management system *Moodle***
- **computer science unplugged**
- **educational robotics**
- simulators
- logic puzzles
- programming
- station work
- online exercises



EDLRIS Modules

 <p>AI Basic</p>  <p>EDL European Driving License for Robots and Intelligent Systems</p> 	 <p>AI Advanced</p>  <p>EDL European Driving License for Robots and Intelligent Systems</p> 	 <p>Robotics Basic</p>  <p>EDL European Driving License for Robots and Intelligent Systems</p> 	 <p>Robotics Advanced</p>  <p>EDL European Driving License for Robots and Intelligent Systems</p> 
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- each module can be done **independently of one another**

<https://pixabay.com>

Modules - Focus



AI, Robotics Basic

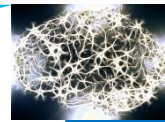


No prior theoretical background is required.

Target group:

e.g. interested teachers,
secondary school students

- build awareness
- introduce concepts easily accessible way
- motivate people and enabling them to live with, *understand and use the technology properly*



AI, Robotics Advanced



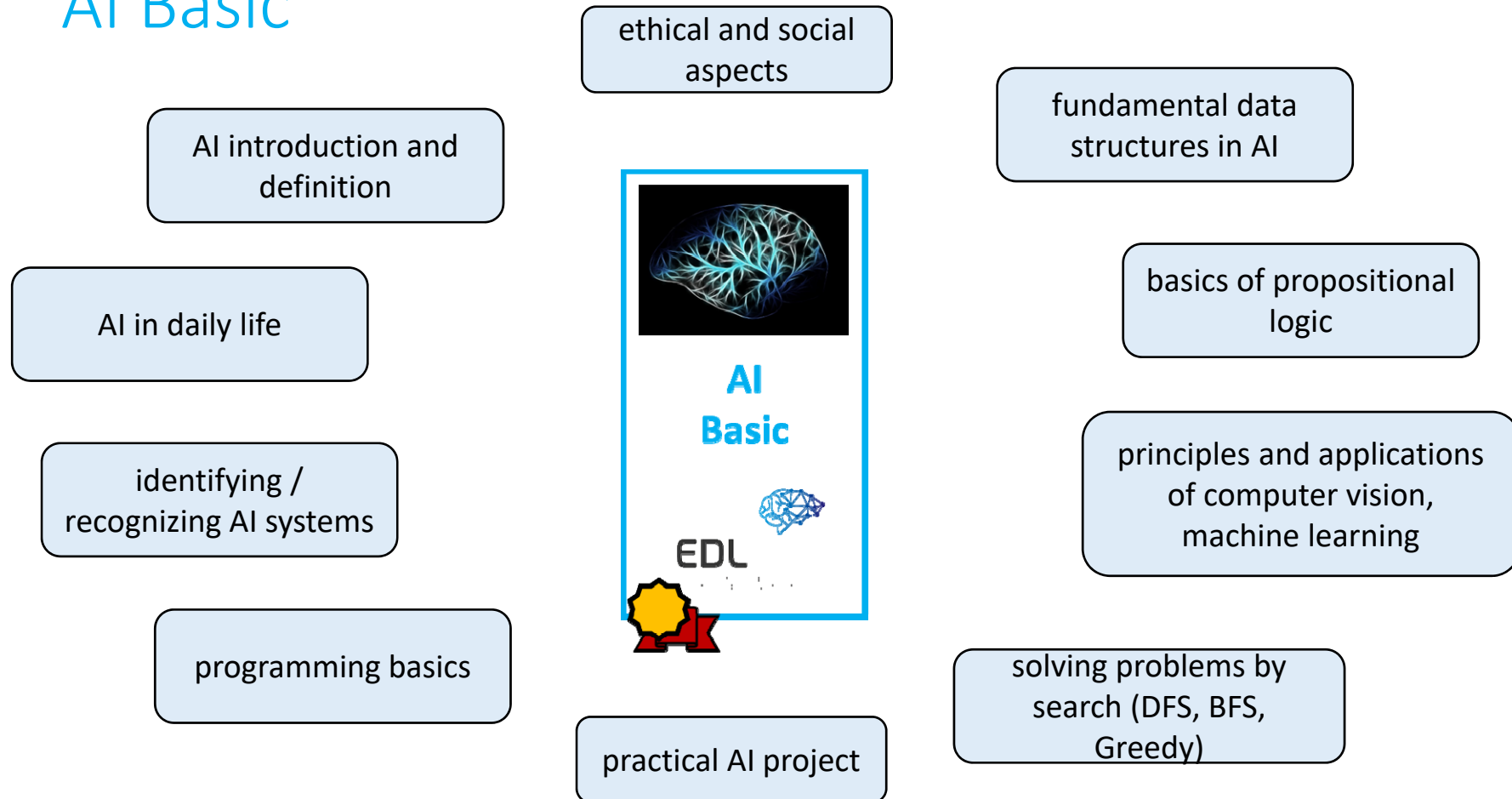
Background knowledge in CS and mathematics is required.

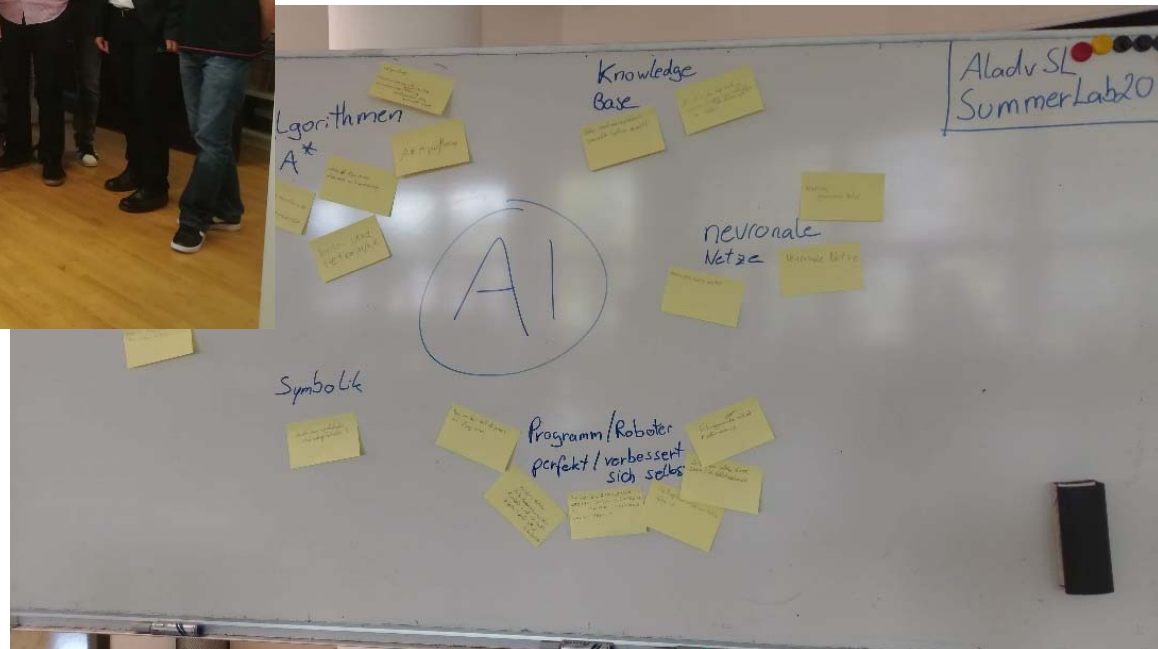
Target group:

e.g. teachers and secondary school students with background in the field

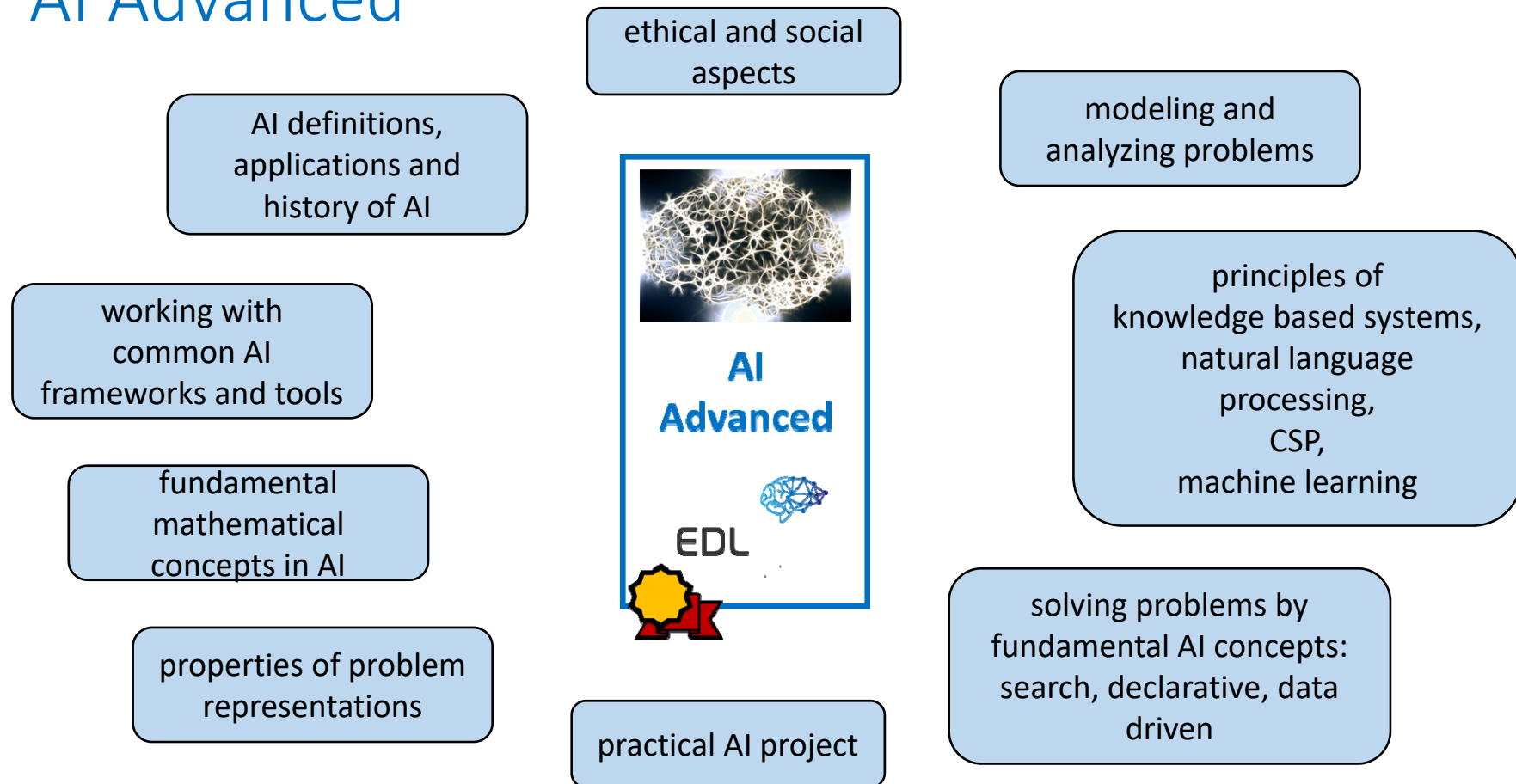
- cover more topics
- foster deeper understanding
- training on a high, elite level
- enabling people to *understand technology and to implement applications*

AI Basic



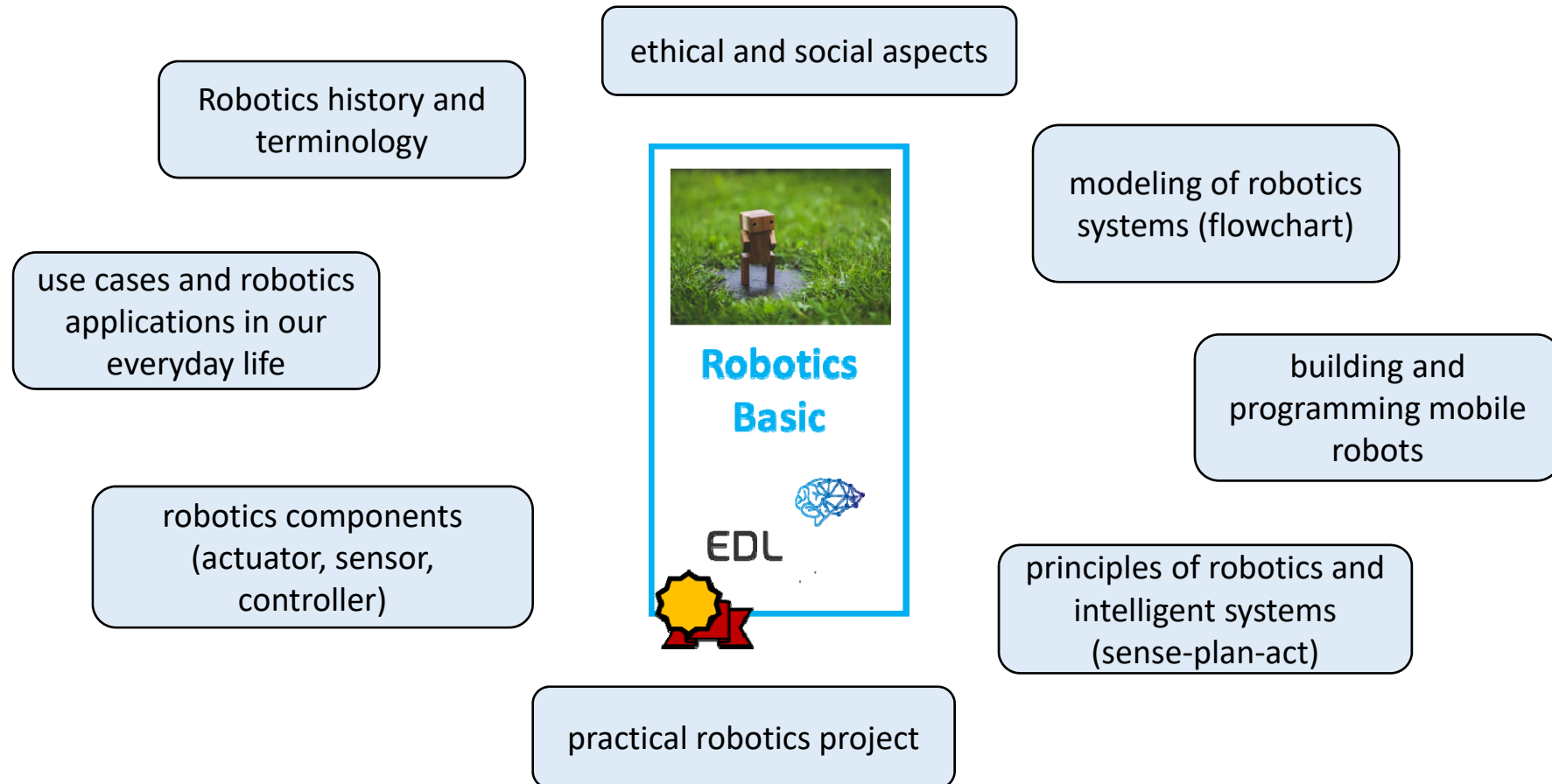


AI Advanced



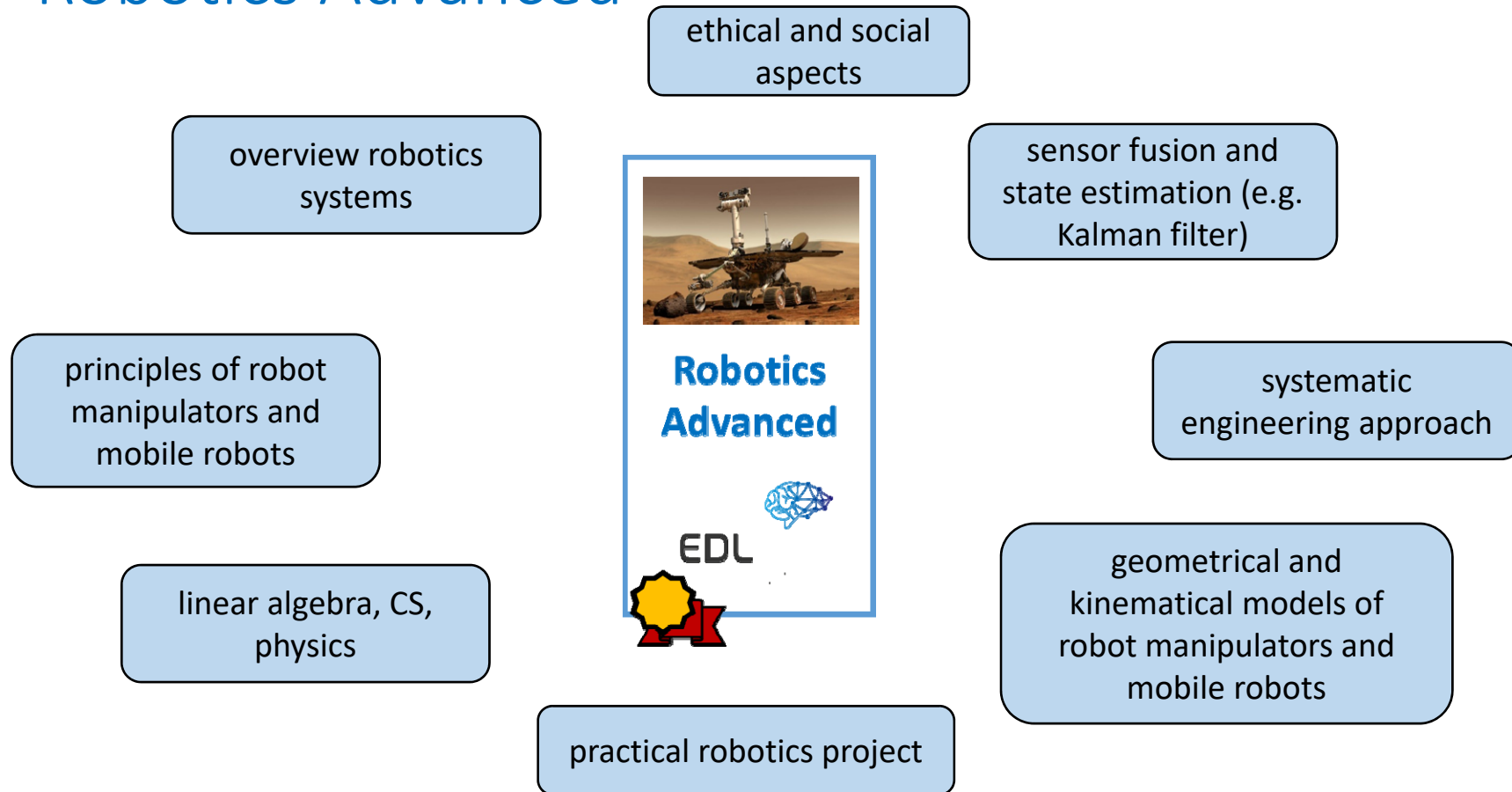


Robotics Basic





Robotics Advanced





Unified Learning Management System

<http://onlinecampus-server.at/edlris/>

- course and teaching material
- presentation slides
- guided online sessions
- didactical and pedagogical information for trainer
- certification system

