Module title | Artificial Intelligence  
| 10-I=KI-102-m01

Module coordinator | holder of the Chair of Computer Science VI 

Module offered by | Institute of Computer Science

ECTS | Method of grading | Only after succ. compl. of module(s) 
| 8 | numerical grade |

Method of grading | Only after succ. compl. of module(s)

Duration | Module level | Other prerequisites 
| 1 semester | graduate |

Where applicable, prerequisites as specified by the lecturer at the beginning of the course (e.g. completion of exercises).

Contents
Intelligent agents, uninformed and heuristic search, constraint problem solving, search with partial information, propositional and predicate logic and inference, knowledge representation, planning, probabilistic closure and Bayesian networks, utility theory and decidability problems, learning from observations, knowledge while learning, neural networks and statistical learning methods, reinforcement learning.

Intended learning outcomes
The students possess theoretical and practical knowledge about artificial intelligence and are able to assess possibilities for its application.

Courses
V + Ü (no information on SWS (weekly contact hours) and course language available)

Method of assessment
written examination (approx. 80 to 90 minutes); if announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one candidate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes) 
Language of assessment: German, English if agreed upon with the examiner

Allocation of places
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Additional information
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Referred to in LPO I (examination regulations for teaching-degree programmes)
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Module appears in
Master's degree (1 major) Computer Science (2010) 
Master's degree (1 major) Mathematics (2012) 
Master's degree (1 major) Mathematics (2010) 
Master's degree (1 major) Physics (2010) 
Master's degree (1 major) Physics (2011) 
Master's degree (1 major) Nanostructure Technology (2011) 
Master's degree (1 major) Nanostructure Technology (2010) 
Master's degree (1 major) Computational Mathematics (2012) 
First state examination for the teaching degree Gymnasium Computer Science (2009)