**Module title** | xtAI Lab 1  
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**Abbreviation** | 10-xtAI=L1-202-m01  

**Module coordinator**  
Dean of Studies Informatik (Computer Science)  

**Module offered by**  
Institute of Computer Science  

**ECTS** | 5  
**Method of grading** | numerical grade  
**Only after succ. compl. of module(s)** | --  

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

**Contents**  
The xtAI Lab 1 provides knowledge about the most important steps and tools for the design and development of an XtAI application. Knowledge such as common data handling and processing techniques, libraries and connection to extended reality applications are taught in theoretical or practical form. In group work, concepts, planning, design, creation, evaluation and refinement of a comprehensive XtAI application prototype are learned. Lectures are used to teach the basic scientific questions of XtAI and current design and solution approaches.

**Intended learning outcomes**  
At the end of xtAI Lab 1, students will be able to handle the entire development process of an XtAI application. They will have basic knowledge in the following areas: Design, design decisions, development and scientific evaluation of XtAI applications.

**Courses**  
(type, number of weekly contact hours, language — if other than German)

| R (3) | Module taught in: English  
**Method of assessment**  
type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus  

| Project: report (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic  
Language of assessment: English  
Creditable for bonus |  

**Allocation of places**  
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**Additional information**  
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**Workload**  
150 h  

**Teaching cycle**  
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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) eXtended Artificial Intelligence (xtAI) (2020)