



Module title					Abbreviation	
3D User Interfaces					10-HCI-3DUI-212-m01	
Module coordinator				Module offered by		
holder of the Chair of Computer Science IX			e IX	Institute of Computer Science		
ECTS Method of grading		Only after succ. compl. of module(s)				
5	numerical grade					
Duration		Module level	Other prerequisites			
1 semester gra		graduate				
Contents						
 mented, mixed and virtual reality, mobile devices, robotics and computer games. The lecture will introduce high-quality 3D interaction techniques and discuss their advantages and disadvantages in specific application areas. Design guidelines are taught as well as the theory needed to implement them. In the exercise, students work in groups of 2-3 participants to develop appropriate 3D interaction techniques for a virtual reality application. Presentations, exercises and discussions help the student groups to familiarize themselves with the required technologies and activities and to organize the project as a whole. Intended learning outcomes After participating in the module courses, students will be able to develop 3D user interfaces independently. They know high-quality 3D interaction techniques of available tools for typically occurring tasks and are able to apply them. Students can independently familiarize themselves with complex technical systems as well as independently develop problem-solving proposals, communicate these in a team and implement and evaluate them in a joint prototype. Courses (type, number of weekly contact hours, language – if other than German) 						
V (2) + Ü (2)						
Module taught in: German and/or 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)						
a) presentation of project results (approx. 30 minutes) or b) oral examination of one candidate each (approx. 30 minutes) Language of assessment: German and/or English creditable for bonus						
Allocation of places						
Additional information						
Workload						
150 h						
Teaching cycle						
leaching cycle: every year, summer semester						
Reterred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
Master's degree (1 major) Human-Computer-Interaction (2021)						
Master'	Master's degree (1 major) Artificial Intelligence & Extended Reality (2024)					
Master's degree (1 major) Artificial Intelligence (2024)						

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