

Module description

All modest				
Module title Interactive Systems			Abbreviation 06-HCI=IS-141-m01	
Interactive Systems			00-1101-13-141-11101	
Module coordinator		Module offered by		
holder of the Chair of Computer Science IX		Institute of Computer Science		
ECTS Method of grading Only after succ. con		npl. of module(s)		
5 numerical grade				
Duration Module level	Other prerequisites			
1 semester graduate Contents				
This module will give students the opportunity to learn about the specificities of 3D User Interfaces (3DUI) development using Virtual, Augmented or Mixed Reality technologies. The module content will be mainly dedicated to learn and practice the skills essential to the design and implementation of high-quality 3D interaction techniques. Design guidelines as well as classical and innovative 3D Interaction techniques will be studied. In addition, the course will address novel research themes such as 3D interaction for large displays and games; and integrating 3DUIs with mobile devices, robotics, and the environment. Students will be assessed through a group practical project (team work), which will consist of a program, a presentation, a technical report (2 ages) and a video. Previous years, the assignment replicated the IEEE 3DUI Contest 2011, where teams of students competed between each other to find the best solution (see results at https://www.youtube.com/watch?v=gYs-pBW7Agc and https://www.youtube.com/watch?v=gYs-pBW7Agc) Intended learning outcomes After the course, the students will gain a solid background on the theory and the methods to create your own 3D spatial interfaces, as well as evaluating then. Students will also learn about traditional and novel 3D input/output devices (e.g, motion tracking system and Head-mounted Display). Courses (type, number of weekly contact hours, language — if other than German) V + Ü + S (no information on SWS (weekly contact hours) and course language available)				
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)				
as specified by the lecturer at the beginning of the course a) written examination (approx. 75 minutes) or b) presentation or presentation of project (approx. 20 minutes) with written elaboration or documentation (approx. 10 pages) or c) oral examination (approx. 30 minutes) Language of assessment: German, English				
Allocation of places				
Additional information				
Workload				
Teaching cycle				
Teaching cycle				
	Referred to in LPO I (examination regulations for teaching-degree programmes)			
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Master's degree (1 major) Computer Science (2014)