Course Manual IA

Project Interactive Systems

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- General information

Long name	Project Interactive Systems <u>IA BaMT</u>	
Approving CModule		
Responsible	Prof. Dr. Stefan Grünvogel Professor Fakultät IME	
Valid from	summer semester 2023	
Level	Bachelor	
Semester in the year	summer semester	
Duration	Semester	
Hours in self-study	144	
ECTS	6	
Professors	Prof. Dr. Stefan Grünvogel Professor Fakultät IME	
	Prof. DrIng. Arnulph Fuhrmann Professor Fakultät IME	
Requirements	Computer graphics Computer animation Informatic 1 and 2 Mathematics 1 nd 2	
Language	English	
Separate final exam	Yes	

Literature

Ralf Dörner, Wolfgang Broll, Paul Grimm, Bernhard Jung: Virtual und Augmented Reality (VR/AR), 2019

T. Akenine-Möller, E. Haines, N. Hoffman: Real-Time Rendering, AK Peters, 2008

Jason Gregory, Game Engine Architecture, AK Peters, 2009

Alan Dix et al., Human Computer Interaction, Prentice Hall, 2003

Final exam

Details

Working on a task from the area of interactive systems in a group of 3-5 people. Documentation of the project results and presentation. Mutual review of the individual teams.

Minimum standard	Definition of project objective and project planning meet minimum standards. Project management process and corresponding decisions are comprehensible and justified. Project documentation and project presentation meet specified quality standards. Project result and live demo show sufficient complexity in development.
Ехат Туре	EN schriftlicher Ergebnisbericht

- Lecture / Exercises

arning go	pals	Special requireme	nts
oal type	Description	none	
kills	Applying practical basic knowledge of programming in the context of		
	an interactive system Using input and output devices in your own programs Use of APIs and application software to graphically display or process data	Accompanying material	task definition (specifications) development tools fo programming an interactive system applications for
	Capturing and understanding scientific texts in English\nPresentation of project		generating and displaying graphical elements
	results in English	Separate exam	No
	interactive system Solving a problem by applying knowledge and skills from computer graphics and computer animation Determination of the basic interface, hardware and software requirements for a specific problem Research in scientific publications on computer graphics and computer animation - Analysis of the suitability of known methods for the solution of		
	problems from the problem definition - Conversion of procedures into own programs - Combination of procedures in		
	own programs		
	Weighting up the opportunities and risks offered by different problem-solving approaches Enforcement of the implementation in the team\nManaging project tasks in a team		
	 Planning and controlling projects Keeping agreements and deadlines Planning and carrying out 		

Expenditure classroom teaching

Туре	Attendance (h/Wk.)
Project	2
Tutorial (voluntary)	0
Tutoriai (voluntary)	0

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