Title	Exploring Realtime	Engine Tools and Workflo	ws
Cluster Title PO 07 To be filed by focus managers s.u.			
Cluster Title PO 2012 To be filed by focus managers s.u.			
Cluster Title PO 2014 To be filed by focus managers s.u.			
Date of first course event / first organizational meeting with students*****/ Room	27.4.22 14:15 F17/23	NN	NN
kind of room if not indicated above	Hörsaal	Seminarraum	Labor x
Belegung über OBS 5.4.22-11.4.22	•	· · ·	· · · ·

Course Data	credit points				5 credit points				
	workload/semester					125-150 h			
	presence/week on average**						4 SWS		
	Group size according to cnw								
	Min. size					8 students			
	09.04. – 23.06.20								
	weekday of course						Wednesda	y	
	frequency of cou	ırse-	events	weekly		bi-weekly		blocked	
	prospective time (Block = 90 min)		ie****	Block 1 8:30		Block 2 10:15		Block 3 12:00	
				Block 4 14:15		Block 5 16:00		Block 6 17:45	
	course language suitable for students of course/focus				English	Х	German		
					DM		AG	х	
				IMD	X	MP			
				SMP	х	IW (BA)			
						OJ/WJ/OK		I	Х
Content(s): (check one or more)	Design	x		nformatics / Technology	х	Economy / Business		Culture	
Time frame in case of blocked event									

Course Portrait							
Lecturer(s) Name(s)	Prof. DrIng. Martin Leissler						
Lecturer(s) email	martin.leissler@h-da.de						
Contact Prof. @ fbmd							
Teaching Method	lecture	lecture lecture + seminar seminar x project					project
Course Contents	pipelines and in import, etc.), the studios. Game develope libraries, resultir typically with too	tegr e pic ers, f ng ir pls b	rses at university usua ration into game engine cture is a bit different w from indie to AAA, hav n internally established puilt right into their gam and forth between the	es ((vhen e all , eff ne e	3d modeling, i it comes to l built their in ficient produc ngines, savir	rigg real tern tior ng th	ging, texturing, l-world game nal toolchains and n workflows, nem a

(especially if guest) Other information							
Info about lecturer	proficiency with Unity game engine.						
Suitability Preconditions	Intermediate student course Some understanding of eithtech-art or programming principles, as well as						
End of Elective							
	Examination / Presentation						
	Examination						
Milestones <u>if known</u>							
Type of Exam	homework work+presentation x paper						
	The goal of the course is therefore to explore this huge asset library and make it more accessible to present and future students. Each student in the course can choose from several assets, which they consequently install, tes use (realistic situation), evaluate, document, and present them to the others a systematical way. The documentation is preserved in a Wiki , which is accessible to all h_da students and which is planned to update and extend with more student projeusing the corresponding assets.						
However, with the large size of the library it has become increasingly har keep an overview which assets are useful in which situation and often stud are not aware of them, costing them unnecessary time they could spend or more productive tasks.							
	During a span of more that 4 years, the A&G program has accumulated mo than 600 such Unity assets used by many student teams to save valuable development time, while allowing them to focus on their personal areas of interest. This effectively simulates the environment of a professional studio their established asset libraries.						
	Unity's approach is clear: the engine itself only provides the functionality that is extremely common across all possible genres (not bloating the builds), while 1 st or 3 rd party extensions (Unity Assets) are distributed through the Unity Asset Store, making it the single largest global marketplace for all kinds of extensions, ranging from 3D environments through animation libraries to tools and complex AI systems.						
	Unity, as the leading game engine across all platforms and genres, is used throughout the h_da Animaton&Game program to teach students game development and enable them to create game projects under the fierce time constraints of a single semester. In the area of animation short-films, recent developments also show that using game engines for real-time rendering of student projects has more benefits than drawbacks.						
	Furthermore, such studios have built up massive libraries of generic-purpose content (from materials to algorithms) that can be combined when prototyping or starting the development of new projects, giving such studios a valuable head-start by leveraging their existing developments.						

* According to our examination law, the course titles have to be matched to a given catalogue with common course titles. This title will appear in the Transcript of Record and the Bachelor Certificate. Field has to be filed by Focus Managers, all clusters can be found below

** The official presence-time is 3 SWS for the whole semester. As the elective period is condensed to 12 weeks instead of 16 weeks, the presence time for the electives is 4 SWS.

*** Courses and focal points: dm = Digital Media , oj = Online Journalismus; wj = Wissenschaftsjournalismus, blank field = please insert appropriate course. *(check as many as apply)*

**** Block 1 = 8.30 - 10.00 Uhr, Block 2 = 10.15 - 11:45 Uhr, Block 3 = 12.00 - 13.30 Uhr, Block 4 = 14.15 - 15.45 Uhr, Block 5 = 16.00 - 17.30 Uhr, Block 6 = 17.45 - 19.15 Uhr

***** In case that the course does not start in the first week 6.10.2014 there has to be a first organisational meeting to finalize the application process

Elective Start: 19.4.22 Holy Days: 26.5., 6.6., 16.6.2022

Please upload in Moodle Course!