Title	Procedural World Co	onstruction	
Cluster Title PO 2014 To be filed by focus managers s.u.			
Date of first course event / first organizational meeting with students*****/ Room	2.5.2024 tbc (might cha 21.3.)	nge to <mark>F17.23</mark>	NN
kind of room if not indicated above	Online	Seminarraum	Labor X
Belegung über OBS - 28.38.4.24 14:00	Achtung nur aus dem h-da oder über vpn	Netz	i

Course Data	credit points						5 credit points		
	workload/semester						125-150 h		
	presence/week on average**						4 SWS		
	Group size accordir	ording to cnw							
	Min. size						8 students		
	18.10.21-18.2.22								
	weekday of course Thu								
	frequency of course	e-events	weekly X		bi-weekly		blocked		
	prospective timeframe**** (Block = 90 min)		Block 1		Block 2		Block 3		
			Block 4 14:15	x	Block 5 16:00	Х	Block 6 17:45		
	course language suitable for students of course/focus				English	Х	German		
				ER		AG	Х		
					IMD		MP		
					SMP		IW (BA)		
					OJ/WJ/OK		КМІ		
Content(s): (check one or more)	Design	Informatics / X Technology		Economy / Business		Culture			
Time frame in case of blocked event									

Course Portrait								
Lecturer(s) Name(s)	Prof Stephan jacob							
Lecturer(s) email	Stephan.jacob@h-da.de							
Contact Prof. @ fbmd	1366							
Teaching Method	lecture	lecture + seminar	Х	seminar		project		
Course Contents	The elective is targeting Tech Artists and Programmers. A lot of games featuring large areas and worlds or have a level generator to create mass of content in no time. Also, for some animations, we need a lot of assets to fill the background. This is often assembly line work and would be a waste of creative work time for Artists. In this elective, we will cover how to develop such worlds and content generators. After a short introduction to general Procedural Content Generation (PCG), we will learn how terrain systems work and also try to program our own landscape generator and dungeon generator in Unity. We will learn how Plants, Trees and other vegetation is automatically created and what techniques, methods and applications exists. (e.g. In Houdini) We will also learn how Citys, Buildings, Textures and even NPS, Quests or Names can be completely generated. Disclaimer: Although about 50% of the course will be dry theory - we will write actual code and create stuff! Both Programmers and Artists are welcome, but a basic understanding in coding will be von useful. also PCC code and methods							

	needs more of a elective is there using Unity.	a ma fore	thematical understandin targeted towards Tech A	ig tha Artists	an gameplay s and progra	r code. The mmers. W	e /e will be
Type of Exam	homework	Х	work+presentation		paper X		
Milestones if known			·	_			
		Exa	mination				
		Fxa	mination / Presentation				
End of Elective		L/(d					
Suitability	intermediate co	urse	to				
Cartability	advanced cours	e					
Preconditions	Game Dev 1 &	2					
Info about lecturer							
(especially if quest)							
Other information							

* 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: er = Expanded Realities , 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 15.10.2018 there has to be a first organisational meeting to finalize the application process

Elective Start: 15,4,24 Holy days 1.5., 9.5.,20.5.30.5 Electives End 19.7..2024 (Examinations could be scheduled after this date if necessary)

Please upload in Moodle Course!

to be filed by lecturer to be filed by focus manager

An die Schwerpunktleiter: Bitte auch die Folgeseite beachten.