

Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject Games Engineering as a Bachelor's with 1 major with the degree "" (180 ECTS credits)

Responsible: Faculty of Mathematics and Computer Science

,	e of Computer Science	Examination regulations version: 2025						
Abbreviations used:	ourse types: \mathbf{E} = field trip, \mathbf{K} = colloquium, \mathbf{O} = conversatorium, \mathbf{P} = placement/lab course, \mathbf{R} = project, \mathbf{S} = seminar, \mathbf{T} = tutorial, $\ddot{\mathbf{U}}$ = exercise, \mathbf{V} lecture							
	Term: SS = summer semester, WS = winter semester							
	Methods of grading: NUM = numerical grade, B/NB = (not) successfully completed							
	Regulations: (L)ASPO = general academic and examination regulations (for teaching-degree pro = list of modules	pgrammes), FSB = subject-specific provisions, SFB						
	Other: A = thesis, LV = course(s), PL = assessment(s), TN = participants, VL = prerequisite(s)							
Conventions for the modules in this SFB:	Unless otherwise stated, courses and assessments will be held in German, assessments will be ditable for bonus.	e offered every semester and modules are not cre-						
Information on assessment procedures:	Should there be the option to choose between several methods of assessment, the lecturer will thod of assessment to be used in the current semester by two weeks after the start of the course customary manner.	-						
	Should a module comprise more than one graded assessment, all assessments will be equally	weighted, unless otherwise stated below.						
	Should the assessment comprise several individual assessments, successful completion of the individual assessments.	module will require successful completion of all						

Examination regulations version: 2025

In accordance with the general regulations governing the degree subject described in this module catalogue:

ASPO2015

associated official publications (FSB (subject-specific provisions)/SFB (list of modules)):

12-Mar-2025 (2025-28)

This module handbook seeks to render, as accurately as possible, the data that is of statutory relevance according to the examination regulations of the degree subject. However, only the FSB (subject-specific provisions) and SFB (list of modules) in their officially published versions shall be legally binding. In the case of doubt, the provisions on, in particular, module assessments specified in the FSB/SFB shall prevail.

Every module will be described using the following form:

Abbreviation	Module title									
	ECTS		Duration	(in semesters)	Method of grading		Module level			
	Courses	Courses		To be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y						
	Method of as	ssessme	ent							
	Only after su completion of		l if applica	if applicable						
	Other prereq	uisites	if applica	if applicable						
	Participants on of places		ocati- if applica	ble						
	Additional information		on if applica	if applicable						
	Referred to in LPO I		if applica	ble (examination re	gulations for teaching	g-degree programmes)				

Compulsory Course	es (125	ECTS cre	dits)							
10-GE-GL-1-252-	Game	Lab I Pri	nciples a	nd Lan	guages					
m01	ECTS	15	Duratio	n	2 semester	Method of grading numerical grade	Modul level	undergraduate		
	Courses			R (8) Modu	lle taught in: Germa	n or English				
	Method of assessment			Langu	portfolio (approx. 350 hours) Language of assessment: German and/or English creditable for bonus					
10-GE-GL-2-252-	Game	Lab II Ar	chitectur	es and	Components					
m01	ECTS	15	Duratio	n	2 semester	Method of grading numerical grade	Modul level	undergraduate		
	Courses			R (8) Modu						
	Method of assessment			Langu	portfolio (approx. 350 hours) Language of assessment: German and/or English creditable for bonus					
10-GE-GL-3-252-	Game Lab III Systems									
m01	ECTS	20	Duratio	1	2 semester	Method of grading numerical grade	Modul level	undergraduate		
1101	Courses			R (10) Module taught in: German or English						
				Langu	portfolio (approx. 500 hours) Language of assessment: German and/or English creditable for bonus					
10-GE-GdP-172-	Funda	mentals	of Progra	amming	g					
m01	ECTS	5	Duratio		1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Cours	es		· · ·	+ Ü (2) Ile taught in: Germa	n or English				
	Method of assessment			If ann of on date) Langu	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). Language of assessment: German and/or English creditable for bonus					

10-GE-ADS-162-	Algorithms and	d data str	ucture	s					
m01	ECTS 10	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses		V (4) -	+ Ü (2)					
	Method of asse	essment	lf ann of one date). Langu	ounced by the lecture candidate each (a		of the course, the writter r an oral examination in		replaced by an oral examina 5 (approx. 15 minutes per ca	
10-I-SE-252-m01	Software Engir	neering							
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level		
	Courses	J	V (2) ·	+ Ü (2)	•			,	
	Method of asse		If ann of one date). credit	vritten examination (approx. 60 to 120 minutes). announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination f one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- ate). reditable for bonus					
10-M-GE-1-162-	Mathematics 1	for Game	es Engi	neering					
m01	ECTS 10	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses	_	V (4) -	+ Ü (2)					
	Method of assessment		a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus						
10-M-GE-2-162-		for Gam	es Engineering						
m01	ECTS 10	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses		V (4) -						
	Method of asse	essment	a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus						
10-GE-SQ-162-m01	Software Quali	ity							
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses			le taught in: Germa					
	Method of asse	essment	Langu	written examination (approx. 60 to 120 minutes) Language of assessment: German and/or English creditable for bonus					
Bachelor's with 1 major G	ames Engineering (202	25)				JMU Würzburg • generated	18-Mär-2025 • exam. reg. data r	ecord 82 i06 - - H 2025 page	e 4 / 14

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10-GE-NPP-162-	Network and C	oncurren	t Progr	amming							
m01	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul leve	undergraduate				
	Courses				an or English						
	Method of ass	essment	b) pre Langu	sentation of projection age of assessmen	ct results (approx. 20 minutes)						
10-I-MCS-242-m01	Introduction in	ito Humai	n-Comp	outer Interaction							
	ECTS 5 Duration 1 semester Method of grading numerical grade Modul level underg Courses V (2) + Ü (2) Module taught in: German or English Module taught in: German or English Module taught in: German or English Method of assessment a) written examination (approx. 6o to 120 minutes) or b) presentation of project results (approx. 20 minutes) Language of assessment: German and/or English creditable for bonus Modul level underg Method of assessment a) written examination (approx. 120 minutes) or b) presentation (30 to 60 minutes) or c) or al examination of one candidate each (30 to 60 minutes) Language of assessment: German and/or English creditable for bonus Modul level underg Courses V (2) + Ü (2) Module taught in: German or English Course type: alternatively S (2) instead of V Modul level underg Method of assessment portfolio (approx. 100 hours) Language of assessment: German and/or English Course type: alternatively S (2) instead of V Modul level underg Method of assessment portfolio (approx. 100 hours) Language of assessment: German and/or English creditable for bonus Modul level underg Modul taught in: German or English Modul level underg Modul level underg Courses						undergraduate				
	Courses		V (3) +	- Ü (1)							
			b) pre c) ora Langu credit) presentation (30 to 60 minutes) or) oral examination of one candidate each (30 to 60 minutes) .anguage of assessment: German and/or English							
10-GE-AE-252-m01	Asset Develop	ment (Mo	deling	and Animation)							
	ECTS 5	Duratio			Method of grading numerical grade	Modul leve	undergraduate				
	Courses		Module taught in: German or English Course type: alternatively S (2) instead of V								
	Method of ass	essment	Language of assessment: German and/or English								
10-GE-IKI-162-m01	Interactive Art	Interactive Artificial Intelligence									
	ECTS 5	Duratio			Method of grading numerical grade	Modul leve	undergraduate				
	Courses										
	Method of ass	essment	b) pre Langu	sentation of projection age of assessmen	ct results (approx. 20 minutes)						
10-GE-ICG-162-	Interactive Cor	nputer Gi	raphics								
m01	ECTS 5	Duratio			Method of grading numerical grade	Modul leve	undergraduate				
	Courses				an or English						
	Method of asso	essment	a) written examination (approx. 60 to 120 minutes) or b) presentation of project results (approx. 20 minutes) Language of assessment: German and/or English creditable for bonus								

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10-GE-ASP-252-	Audio Signal P	rocessing	3							
m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level			
	Courses	-		V (2) + Ü (2) Module taught in: German or English						
	Method of asso	essment	If ann of one date). Langu	ounced by the lectu e candidate each (aj		of the course, the written exam r an oral examination in groups		replaced by an oral examination 5 (approx. 15 minutes per candi-		
Compulsory Electiv	Compulsory Electives (20 ECTS credits)									
Theoretical Compu	ter Science (5 E	CTS credi	ts)							
10-I-TI-242-m01	Theory of Com	putation								
	ECTS 10 D			1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V (4) -	+ Ü (2)						
	Method of asso		If ann of one date).	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date). creditable for bonus						
10-I-LOG-152-m01	Logic for inform	natics								
	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses	-1.	V (2) -							
	Method of ass	essment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral e of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minute date). Language of assessment: German and/or English creditable for bonus							
	Referred to in L	.PO I	§ 22	l Nr. 3 b)						
10-I-AGT-152-m01	Algorithmic Gr	aph Theo	ry							
	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V (2) -							
	Method of assessment written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral exam of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per date). Language of assessment: German and/or English creditable for bonus									
	Referred to in L	.PO I	§ 22	l Nr. 3 b)						
Bachelor's with 1 major G	ames Engineering (20	25)				JMU Würzburg • generated 18-Mär-2	025 • exam. reg. data r	ecord 82 i06 - - H 2025 page 6 / 14		

10-I-KT-191-m01	Compu	Computational Complexity											
	ECTS 5 Duration			า	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses	s		V (2)	+ Ü (2)								
	Method	l of ass	essment	lf anr	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-								
					date). Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus								
General Computer	r Science												
10-GE-AT-1-162-	Selecte	ed Topic	cs of Gam	es Eng	gineering 1								
m01	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses	S		Modu	V (2) + Ü (2) Module taught in: German or English Course type: alternatively S (2) instead of V, T (2) instead of Ü								
	Method of assessment			a) written examination (approx. 60 to 120 minutes) or b) presentation of project results (approx. 20 minutes) Language of assessment: German and/or English creditable for bonus									
10-GE-AT-2-162-	Selecte	Selected Topics of Games Engineering 2											
m01	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses			V (2) + Ü (2) Module taught in: German or English Course type: alternatively S (2) instead of V, T (2) instead of Ü									
	Method	l of ass	essment	a) written examination (approx. 60 to 120 minutes) or b) presentation of project results (approx. 20 minutes) Language of assessment: German and/or English creditable for bonus									
10-GE-PW-252-	Games	Project	t Worksho	p									
m01	ECTS 5 Duratio			1 semester Method of grading numerical grade Modu			Modul level						
	Courses	S		R (3) Modu	R (3) Module taught in: German or English								
	Method	l of ass	essment	Lang	portfolio (approx. 100 hours) Language of assessment: German and/or English creditable for bonus								

Bachelor's with 1 major Games Engineering (2025)	JMU Würzburg • generated 18-Mär-2025 • exam. reg. data record 82 io6 - - H 2025	page 7 / 14

10-l-Gl-252-m01	Selected Basic	s of Com	outer S	cience								
	ECTS 5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V (4) +									
				le taught in: Germa		<u>``</u>		_				
	Method of ass	essment	writte	n examination (app	prox. 60 to 120 minute	S). In the course, the written even	nination may be	replaced by an oral examination				
			ofone	e candidate each (a	ecturer at the beginning of the course, the written examination may be replaced by an oral examination h (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-							
			date).									
				lage of assessment able for bonus	: German and/or Engl	ish						
10 CE MK 162 mg1	Computer Scie	omputer Science in Media 1										
10-GE-MIK-102-11101	ECTS 6	Duration		1 semester	Method of grading	numorical grado	Modul level	undergraduate				
	Courses	Duration	I V (2) -			numencai giaue	Modulilevel	undergraduate				
	courses			e type: alternatively	y T (2) instead of Ü							
	Method of ass	essment			pprox. 60 minutes) or	ſ						
					rox. 20 minutes) or							
				n paper (approx. 20 tfolio (approx. 20 p								
					: German and/or Engl	ish						
				able for bonus								
10-I-DB-152-m01	Databases											
	ECTS 5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V (2) -									
	Method of ass	essment			prox. 60 to 120 minute							
								replaced by an oral examination				
			date).	of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date).								
					: German and/or Engl	ish						
				able for bonus								
	Referred to in I	LPO I	§ 49 Nr. 1 b) § 69 Nr. 1 b)									
10-I-WBS-152-m01	Knowledge-ba	sed Syste										
	ECTS 5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V (2) +									
	Method of ass	essment			orox. 60 to 120 minute	s).						
			lf ann	ounced by the lectu	urer at the beginning o	of the course, the written exam		replaced by an oral examination				
			of one date).		pprox. 20 minutes) or	an oral examination in group	s of 2 candidates	s (approx. 15 minutes per candi-				
					: German and/or Engl	ish						
				able for bonus								
	Referred to in I	LPO I	§ 22	l Nr. 3 b)								
Bachelor's with 1 major G	ames Engineering (20	25)				JMU Würzburg • generated 18-Mär-2	2025 • exam. reg. data i	record 82 i06 - - H 2025 page 8 / 14				

10-I-APR-172-m01	Advanced Programming										
	ECTS	5	Duratio	า	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses	5	-	V (2) +	+ Ü (2)	· ·		<u></u>			
	Method	ofasse	essment	written examination (approx. 60 to 120 minutes).							
				If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination							
				of one date).	of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-						
						: German and/or English					
				credit							
10-I-MSE-252-m01	Model-based Systems Engineering										
	ECTS 5 Duration			ı	1 semester	Method of grading numerical grade	Modul level				
	Courses	5		V (2) +	+ Ü (2)						
	Method	ofasse	essment			prox. 60 to 120 minutes).					
						urer at the beginning of the course, the written exam					
				date).	of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- late)						
					creditable for bonus						
10-l-3D-152-m01	3D Point Cloud Processing										
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses			V (2) + Ü (2)							
	Method of assessment			written examination (approx. 60 to 120 minutes).							
				If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination							
				of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date).							
				Language of assessment: German and/or English							
				creditable for bonus							
	Referre	d to in L	.PO I	§ 22	§ 22 Nr. 3 b)						
10-I-RAK-152-m01	,	ter Arch	itecture			· · · · · · · · · · · · · · · · · · ·					
	ECTS	5	Duratio		1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses			V (2) +							
	Method	ofasse	essment			prox. 60 to 120 minutes).	• .• •				
						urer at the beginning of the course, the written examination in group					
				date).	of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date).						
					Language of assessment: German and/or English						
					able for bonus						
	Referre	d to in L	.PO I	§ 22 II Nr. 3 b)							
				§ 69 Nr. 1 c): Rechnerarchitektur							

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10-I-RAL-252-m01	Digital	comput	er systen	ns							
	ECTS	10	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	s		V (4) +	- + Ü (2)			•			
	Method	d of ass	essment			rox. 60 to 120 minute					
				If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).							
					creditable for bonus						
10-I-DM-242-m01	Data So	cience				,					
	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S	÷	V (2) +	- + Ü (2)			A			
	Method	d of ass	essment			rox. 60 to 120 minute		_			
									replaced by an oral examination		
				of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date).							
				Language of assessment: German and/or English							
			-	creditable for bonus							
	Referre			§ 22 Nr. 3b							
10-I-RIÜ-191-m01			1	Id Information Transmission							
		10	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course				$(4) + \ddot{U}(2)$						
	Methoo	d of ass	essment	written examination (approx. 60 to 120 minutes).							
					If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-						
				date).							
		1		creditable for bonus							
10-I-SEC-191-m01	IT Secu	rity	í			•					
		5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		$V(2) + \ddot{U}(2)$							
	Mathaa			Module taught in: German and/or English written examination (approx. 60 to 120 minutes).							
	Method	a or asso	essment					nation may be	replaced by an oral examination		
									s (approx. 15 minutes per candi-		
				date).			• 1				
				Language of assessment: German and/or English creditable for bonus							

10-I-KD-191-m01	Cryptography and Data Security											
	ECTS 5 Durat		Duration	า	1 semester	Method of grading numerica	al grade	Modul level	undergraduate			
	Course	s		V (2) -	$/(2) + \ddot{U}(2)$							
	Metho	d of ass	essment			rox. 60 to 120 minutes).						
				If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).								
					Language of assessment: German and/or English							
						e semester in which the cours	e is offered and in the	e subsequent se	emester			
					able for bonus							
10-I-AR-152-m01			nd Control	Techn	ology							
	ECTS	8	Duration		1 semester	Method of grading numerica	al grade	Modul level	undergraduate			
	Course	s		V (4) -	+ Ü (2)							
	Metho	d of ass	sessment	written examination (approx. 60 to 120 minutes).								
				If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination								
				of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- date).								
				Language of assessment: German and/or English								
				creditable for bonus								
10-I-BS-242-m01	Operating Systems											
	ECTS	5	Duration		1 semester	Method of grading numerica	al grade	Modul level	undergraduate			
	Courses			V (2) + Ü (2)								
	Metho	d of ass	sessment	written examination (approx. 60 to 120 minutes).								
				If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination								
				of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).								
				Language of assessment: German and/or English								
				creditable for bonus								
10-I-OR-252-m01	Operat	ions Re	esearch									
	ECTS 5 Duration			า	1 semester	Method of grading numerica	al grade	Modul level				
	Courses			V (2) + Ü (2)								
	Metho	d of ass	essment			rox. 60 to 120 minutes).						
									replaced by an oral examination			
				of one date).		pprox. 20 minutes) or an oral e	xamination in groups	of 2 candidates	s (approx. 15 minutes per candi-			
				date). creditable for bonus								

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10-I-TML-222-m01	Theory of Machine Learning											
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	s		V (2) +				•	•			
					le taught in: Germar							
	Method	d of asse	essment			rox. 60 to 120 minute						
				If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-								
				date).			- · ·					
						German and/or Engl	ish					
		.		credit	able for bonus							
10-I-DL-222-m01		earning	· · · · · · · · · · · · · · · · · · ·				· · ·					
		5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course			V (2) +			<u>``</u>					
	Method of assessment					rox. 60 to 120 minute		nation may be r	enlaced by an oral examination			
				If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-								
				date).								
	creditable for bonus											
10-I-NLP-222-m01		<u> </u>	age Proce									
		5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			$V(2) + \ddot{U}(2)$								
	Method of assessment			Module taught in: German and/or English								
	Method	a of asse	essment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination								
				of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-								
				date).								
				Language of assessment: German and/or English creditable for bonus								
10-I-CV-222-m01	Compu	ter Visio										
10-1-00-222-11101	-	5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
			Duration			Method of grading	numencal glade	Modulievei	undergraduate			
	Courses			V (2) + Ü (2) Module taught in: German and/or English								
	Method of assessment				written examination (approx. 60 to 120 minutes).							
									replaced by an oral examination			
				date).		prox. 20 minutes) of	an orac examination in groups	or 2 candidates	a (approx. 15 minutes per candi-			
						German and/or Engl	ish					
				creditable for bonus								

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10-GE-	Practice/Job-oriented Internship 1										
BPrakt1-252-m01	ECTS 5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level				
	Courses		P (o)								
	Method of asse	essment	place	ment report (approx	. 1 page)						
			<u> </u>	Language of assessment: German and/or English							
				Additional information on module duration: no less than 4 weeks.							
10-GE- BPrakt2-252-m01	Practice/Job-o	1		, <u>, , , , , , , , , , , , , , , , , , </u>				1			
DI TARI2-252-1101	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level				
	Courses		P (o)								
	Method of asse	essment		ment report (approx	. 1 page) German and/or Engl	ish					
	Additional Info	rmation		-	module duration: no						
Transferable Skills			riaare			4					
General Key Skills											
			part of	the pool of general	transferable skills (As	SQ) of JMU.					
General Key Skills	(subject-specifi	c)									
10-GE-Tut-	Work experien	ce as a re	search and teaching assistant								
ASQ-162-m01	ECTS 5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses		P (o)								
	Method of asse	essment	report (approx. 2 pages)								
Subject-specific Ke	y Skills (15 ECT	S credits)	1								
10-GE-SEM-252-	Seminar - Curr	ent Trend	s of Ga	ames Engineering							
m01	ECTS 5 Duratio		n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		S (2)								
			Module taught in: German or English								
	Method of asse	essment	report (approx. 8 pages) and presentation (approx. 20 minutes) Language of assessment: German and/or English								
			creditable for bonus								
10-GE-GEA-252-	Game Engine A	rchitectu	re								
m01	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level				
	Courses	<u>.</u>	V (2) + Ü (2)								
			Module taught in: German or English								
	Method of asse	essment	written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination								
			of one	ounced by the lectu e candidate each (ar	rer at the beginning c	of the course, the written examination in groups	ination may be	replaced by an oral examination s (approx. 15 minutes per candi-			
			date).		5p10x. 20 minutes) of	an orat examination in groups		approx. 13 minutes per candi			
					German and/or Engl	ish					
			credit	able for bonus							
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10-GE-GDS-252-	Game	Design S	itudio								
m01	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul leve			
	Courses				V (2) + T (2) Module taught in: German or English						
	Method of assessment			portfolio (approx. 100 hours) Language of assessment: German and/or English creditable for bonus							
Thesis Area (15 ECT	'S credit	ts)									
10-GE-PV-252-m01	Project	t Presen	tation								
	ECTS 3 Duratio		า	1 semester	Method of grading	numerical grade	Modul leve				
	Courses			S (3) Module taught in: German or English							
	Method of assessment			portfolio (approx. 50 hours) Language of assessment: German and/or English creditable for bonus							
10-GE-BT-162-m01	Bachel	or Thesi	s Games	Engine	Engineering						
	ECTS	12	Duration	า	1 semester	Method of grading	numerical grade	Modul leve	undergraduate		
	Courses			No courses assigned to module							
	Method of assessment			Bachelor's thesis (approx. 30 pages) Language of assessment: German or English							
	Additional Information			Time to complete: 12 weeks							