Module MA-INF 3213	Advanced Topics in Information Systems					
Workload	Credit points	Duration	Freque	ncv		
180 h	6 CP	1 semeste	_	-		
Module	JunProf. Dr.					
coordinator	0 00000					
Lecturer(s)	JunProf. Dr. Alexander Markowetz					
Classification	Programme	11101101101	Mode	Semest	ter	
	M. Sc. Compu	iter Science				
Technical skills	An in-depth understanding of the topic under investigation. A					
	command of the concepts and terminologies, in order to discuss					
	and compare the various systems, algorithms and approaches.					
	The ability to implement the presented systems and algorithms.					
	The ability to dissect (i) the logic of arguments and (ii)					
	experimental setups deployed by publications in this area.					
Soft skills	• Oral discussion and presentation in classes and tutorials.					
	• Written presentation of exercise solutions.					
	• Team collaboration in solving theoretical and practical					
	problems.					
	• Critical assessment of literature, systems, algorithms and					
	approaches.					
Contents	In depth coverage of a selected topic in Information Systems, in					
	particular focusing on recent system implementations and novel					
	algorithms. Example subjects may consist of: Web Information					
	Systems, Information Retrieval, Management of Spatial Data,					
	Management of Stream Data, or Data Warehousing.					
Prerequisites	Required:					
	A thorough understanding of Database Management Systems,					
	such as laid out in the text book by Ramakrishnan and Gehrke.					
	Solid skills in developing OO software. In depth knowledge of					
	Algorithms, such as summarized by the introductory book of					
	Cormen et al.					
	Teaching forms	at G	roup size	h/week	Workload[h]	CP
Format	Lecture		60	2	30 T / 45 S	2.5
	Exercises		30	2	30 T / 75 S	3.5
	T = face-to-face teaching; S = independent study					
Exam achievements	Written exam (graded)					
Study achievements	Successful exercise participation (not grad					
Forms of media		1			(	)
	Recent scientific publications, and selected chapters of advanced					
Literature	textbooks.					