Module	Mobile Communication						
MA-INF 3202							
Workload	Credit points	Duration	Freque	ncv			
180 h	6 CP	1 semeste	_	-			
Module	Prof. Dr. Peter Martini						
coordinator	1101. DI. I OUOI MANIUMI						
Lecturer(s)	Prof. Dr. Peter Martini, Dr. Matthias Frank						
	Programme	Mode		Semester			
Classification	M. Sc. Computer Science				2. or 3.		
Technical skills	Knowledge about key concepts of mobile communication						
	including mobility management (both technology independent						
	and technology dependent), knowledge about wireless technologies and their interaction with other protocol layers and/or other network technologies, ability to evaluate and ass						
	scenarios with communication of mobile devices. In-depth						
	understanding of communication paradigms of wireless/mobile						
	systems and network elements, productive work in small groups, strengthening skills on presentation and discussion of solutions to current challenges						
Soft skills	Theoretical exercises to support in-depth understanding of lecture topics and to stimulate discussions, practical exercises teamwork to support time management, targeted organisation						
	practical work and critical discussion of own and others' results						
Contents	Mobility Management in the Internet, Wireless Communication Basics, Wireless Networking Technologies, Cellular/Mobile Communication Networks (voice and data communication),						
	Ad-hoc and Sensor Networks.						
Prerequisites	Recommended:						
	Bachelor level knowledge of basics of communication systems						
	(e.g. BA-INF 101 "Kommunikation in Verteilten Systemen"						
	`	German Bachelor Programme Informatik, English lecture slides					
	available) and/or MA-INF 3105 – Principles of Distributed						
	Systems			_ , _			
Format	Teaching forms	at C	Froup size	h/week	Workload[h]	CP	
	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	Oral exam (graded)						
Study achievements	Successful exercise participation (not graded)						
Forms of media	. Il C.l.:ll Ml.:l. C ' .' A.11' W. 1						
Literature	• Jochen Schiller: Mobile Communications, Addison-Wesley, 2003						
	• William Stallings: Wireless Communications and Networking,						
	Prentice Hall, 2002						
	• Further up-to-date literature will be announced in due course						
	before the beginning of the lecture						
	perore the peginning of the rectals						