Module MA-INF 4213	Seminar Humanoid Robots					
Workload	Credit points	Duration	Freque	ncy		
120 h	4 CP	1 semester	every s	emester		
Module	Prof. Dr. Maren Bennewitz					
coordinator						
Lecturer(s)	Prof. Dr. Maren Bennewitz					
Classification	Programme		Mode	Semes	ter	
	M. Sc. Compu	iter Science	Optiona	$1 \mid 2$.		
Technical skills	Knowledge in advanced topics in the area of humanoid robotics, such as environment perception, state estimation, navigation, or motion planning. Ability to understand new research results of scientific papers and to present them in a talk as well as in a					
Soft skills	self-written summary. Self-competences (time management, literature search, self-study),					
	communication skills (preparation of the talk, clear didactic					
	presentation of techniques and experimental results, scientific					
	discussion, structured writing of summary), social skills (ability to					
	formulate and accept criticism, critical examination of algorithms and experimental results).					
Contents	Current research papers from conferences and journals in the field of humanoid robotics covering fundamental techniques and applications.					
Prerequisites	Recommended: At least 1 of the following: MA-INF 4215 – Humanoid Robotics MA-INF 4113 – Cognitive Robotics					
Format	Teaching form	at G	oup size	h/week	Workload[h]	CP
	Seminar		10	2	30 T / 90 S	4
	T = face-to-face teaching; S = independent study					
Exam achievements	Oral presentation, written report (graded)					
Study achievements	none (not graded)					
Forms of media	(*** 8******)					
Literature	- S. Thrun, W. Burgard and D. Fox: Probabilistic Robotics. MIT Press					
	- B. Siciliano, O. Khatib (Eds.): Springer Handbook of Robotics					
	- K. Harada, E. Yoshida, K. Yokoi (Eds.), Motion Planning for Humanoid Robots, Springer					
	- Selected papers.					