Module MA-INF 2213	Computer	Vision II				
Workload	Credit points	Duration	Frequer	ıcy		
180 h	6 CP	1 semester	every year			
Module	Prof. Dr. Juergen Gall					
coordinator						
Lecturer(s)	Prof. Dr. Juergen Gall					
Classification	Programme		Mode	Semest	ter	
	M. Sc. Computer Science   Option			l 2. or 3.		
Technical skills	Students will learn about various learning methods and					
	their applications to computer vision problems.					
Soft skills	Productive work in small teams, development and realization of individual approaches and solutions, critical reflection of competing methods, discussion in groups.					
Contents	The class will cover a number of learning methods and					
	their applications in computer vision. For example, linear					
	methods for classification and regression, boosting, random					
	forests, neural networks, SVMs, prototype methods, nearest					
	neighbors, Gaussian processes, Dirichlet processes, image					
	classification, object detection, action recognition, pose estimation, face analysis.					
Prerequisites	Required:					
	MA-INF 2201 – Computer Vision					
	Teaching forms	at G	roup size	h/week	Workload[h]	CP
Format	Lecture		60	3	45 T / 45 S	3
	Exercises		30	1	15 T / 75 S	3
	T = face-to-face teaching; $S = independent study$					
Exam achievements	Oral exam (graded)					
Study achievements	Successful exercise participation (not graded)					
Forms of media						
	• T. Hastie, R. Tibshirani, J. Friedman: The Elements of					
Literature	Statistical Learning: Data Mining, Inference, and Prediction					
	• C. Bishop: Pattern Recognition and Machine Learning					