

Module title App Development for Smartphones				
Module code YAPP	Level Bachelor (B.Sc.)	Hours per week 4	ECTS credits 5	Duration 1 semester
Module instructor Prof. Dr. Kucera	Lecture type Interactive seminar Lab sessions	Prerequisite(s) Programming 1, Programming 2, Operating Systems, Databases, Computer Networks		Grading Final exam or presentation of completed project
Objectives After a short introduction to Android OS - followed by a tutorial phase - students create and design Apps based on their own ideas. They acquire knowledge regarding the specific aspects of developing Apps for Android-based smartphones, e.g., human-machine-interfaces, gesture control, voice control and output, location-based applications and cloud interfaces.				
Content <ul style="list-style-type: none"> • Fundamentals of smartphones: devices, operating systems, development environments • System architecture • Security • Interface design • Message processing, communication • File system and databases • Location-based services 				
Textbook/teaching material <ul style="list-style-type: none"> • Becker/Pant: Android2: Grundlagen und Programmierung, dPunkt Verlag, 2. Auflage 2010 • Various other material provided by lecturer 				

Note: this is not the official course descriptor according to the "Studien- und Prüfungsordnung" (SPO)