

<b>Module</b>	<b>Computer Sciences</b>	
<b>Semester</b>	1	
<b>Duration</b>	1 Semester	
<b>Method of Examination</b>	Pflichtfach	
<b>ECTS</b>	5	
<b>Student's Workload</b>	60 h compulsory attendance + 90 h self-study	
<b>Entry Requirements (MPO)</b>		
<b>Recommended Requirements</b>		
<b>Applicability</b>	MaTMeng	
<b>Type/Duration of Assessment</b>	written exam 2h or oral examination or project or draft or report or computer program or experimental work	
<b>Teaching Method</b>	Seminar form lecture, exercises	
<b>Module Coordinator</b>	R. Götting	
<b>Aims and Objectives</b>	Completing this course the students should be able to implement complex project using standard libraries. Understanding von standard paradigms in creating guis and implementing multi-thread applications. Understanding and using of standard methods in object-oriented software-systems. Developing an application using an ide.	
<b>Course content</b>	The course contents might be summarized by four topics + Advanced concepts of a higher language + Frameworks + design patterns + software development using an ide	
<b>Literature</b>	J. T. Streib, T. Soma: Guide to Java, Springer Verlag, 2014 lecture notes	
<b>Courses</b>		
<b>Lecturer</b>	<b>Course Title</b>	<b>SPPW</b>
R. Götting	Advanced Programming	4