

Module name					
System and Parallel Programming					
Module nr. 20-00-0905	Credit points 5 CP	Workload 150 h	Self-study 105 h	Module duration 1 Term	Module cycle Winter term
Language German			Module owner Prof. Dr. phil. nat. Marc Fischlin		
1	Teaching content - programming languages for systems programming - foundations of parallel systems - parallel architectures, multi-core and many-core systems, clusters - programming paradigms and models for parallel computing - parallel algorithms - significant practical programming exercises covering the above topics				
2	Learning objectives After successfully attending this course, students understand the foundations of parallel systems and of techniques for their efficiently programming. They can develop and analyze basic applications using systems and/or parallel programming techniques on selected platforms.				
3	Recommended prerequisites for participation				
4	Form of examination DefaultCourse related exam: <ul style="list-style-type: none">[20-00-0905-iv] (Study achievement, Oral/written examination, Default RS)				
5	Prerequisite for the award of credit points Pass exam (100%) Course achievement may be acquired through exercises, hands-on training, programming and success- full discussion on colloquiums. Each area must be passed.				
6	Grading DefaultCourse related exam: <ul style="list-style-type: none">[20-00-0905-iv] (Study achievement, Oral/written examination, Weighting: 100 %)				
7	Usability of the module B.Sc. Informatik B.Sc. Informationssystemtechnik May be used in other degree programs.				
8	Grade bonus compliant to §25 (2)				
9	References To be appointed in lecture.				
Courses					
	DefaultCourse nr. 20-00-0905-iv	Course name System and Parallel Programming			
	Instructor Prof. Dr.-Ing. Andreas Koch			Type Integrated course	SWS 3