



Module title Operating Systems (Textbook, slides, and exam in English; lecture in German)				
Module code OS	Level Bachelor (B.Sc.)	Hours per week 4	ECTS credits 5	Duration 1 semester
Module instructor Prof. Dr. Weiß	Lecture type Interactive seminar with integrated exercises	Prerequisite(s) Good academic standing		Grading Final exam (written)
Objectives <ul style="list-style-type: none">• To provide a grand tour of the major operating systems components• To provide coverage of basic computer system organization				
Content <ul style="list-style-type: none">• Introduction (History, Operating System, Layer model, Interfaces, Virtual Machines)• Processes (Process state, scheduling, synchronization, communication)• Memory management (virtual memory, page administration, segmentation, cache)• File management (file systems, file attributes, file functions, file organisation)				
Textbook/teaching material <ul style="list-style-type: none">• Tanenbaum, Modern Operating Systems• Silberschatz et al, Operating System Concepts				

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