

Distributed Computing System					
Course code CIF61026	student workload 90 hours	credits (according to ECTS) 4,5	semester Sem. 5 & 7	frequency each odd-semester	duration 16 meetings
1	Types of courses <i>Elective</i>	contact hours 63 hours	independent study 27 hours	class size 40 students	
5	Prerequisites for participation Have completed Computer network				
2	Learning outcomes IF-ILO-3 Graduates are able to develop professional careers in the field of computer science based on quality aspects, data-based decision making, be responsible, and make continuous improvements. IF-ILO-5 Mastering the structure and how the computer systems work both in general and in detail at various levels of abstraction and how the interaction between the computer system and its environment IF-ILO-11 Graduates are able to plan, develop, manage, and analyze the computer network-based system and the services running on top of them by considering the network security aspects.				
3	Subject aims Students are able to explain the basic concepts and architecture of distributed systems Students are able to explain the components in a distributed system architecture and explain the interactions between components Students are able to explain the concept of operating system support in distributed system communication Students are able to explain the communication methods used in distributed systems and their implementation Students are able to explain coordination methods in distributed systems and their implementation Students are able to explain the principle of consistency in distributed systems and their implementation Students are able to explain the concept of system resistance to fault conditions and its implementation Students are able to implement a simple distributed system				
4	Teaching methods lectures, case study, class discussion, presentation				
6	Assessment methods assignment, mid-term examination, end-term examination, project evaluation, practical-skill				

	assessment
8	This module is used in the following degree programmes as well
10	Responsibility for module
11	Other information 1. Sten, Marten, Distributed System 3rd Edition, Maarten van Steen, 2017 2. Coulouris, George, Distributed System Concepts and Design, Addison-Wesley, 2012