D U A L E H O C H S C H U L E
Baden-Württemberg
Studienbereich Technik

Implementation of Distributed systems

Formale Angaben zum Modul	
Studiengang	**Studienrichtung**
Informatik	Informatik

Modulbezeichnung	**Sprache**	**Modulcode**	**Version**	**Modulverantwortlicher; Standort**
Implementierung verteilter Systeme				Till Hänisch; HDH
Modulbezeichnung Englisch				
Implementation of distributed systems				

Studienjahr	**Modulart**	**Moduldauer**
Second year		1 semester

Teaching methods	
Lehrformen	lecture, lab
Lernmethoden	lecture, discussion, group work

Form of examination	**Exam duration (in min)**
Combined examination	

Workload und ECTS			
Total workload (in hours)	**of which interactive**	**of which self-study**	**ECTS-Leistungspunkte**
150	60	90	5

Qualification goals and competences	
Professional competence	Students are able to apply methods and techniques from distributed systems theory (T3INF4306) (distributed computing) to a real and complex problem from practice. They know relevant security techniques.
Methodical competence	Upon completion of the module, students are able to select and apply appropriate methods and techniques for a given problem
Personal and social competence	The students can solve a complex problem as a team.
Interdisciplinary competence	-

Learning units and contents		
Learning units	**interactive**	**Self-study**

Security in distributed systems	**24**	**36**
Contents - Security in distributed systems (identify ICT system weaknesses) - Scalability, Consistency, Availability(align software with system architectures, protecting ict devices, apply information security policies) - Advanced topics		
Lab Distributed systems	**36**	**54**
Contents Implementing the methods and concepts of module “Software Quality and Distributed Systems” (T3INF4306)		

Besonderheiten und Voraussetzungen
Specifics
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Prerequisites
Principles of distributed systems, for example from Software-quality and distributed systems (T3INF4306

Literature
Same as T3INF4306