Distributed System (K22B64)

Module designation	*Distributed System*
Semester(s) in which the module is taught	*6 / third year*
Person responsible for the module	*Ariyan Zubaidi, S.Kom., M.T.*
Language	*Indonesian*
Relation to curriculum	*Compulsory*
Teaching methods	*Lectures, Discussions, Project*
Workload (incl. contact hours, self-study hours)	Contact Hours every week, each week of the 16 weeks/semester including Evaluation • 3 x 50 minutes lecturer/week • 3 x 60 minutes class exercise/week • Self Study hours = 120 minutes/week Total workload 450 minutes/week
Credit points	*3 (~ 4,8 ECTS)*
Required and recommended prerequisites for joining the module	*Computer Network*
Module objectives/ intended learning outcomes	In this course, students are expected to be able to: 1. understand the principles, techniques, and methods in distributed computing 2. understand the main concept and developed techniques to manage the data and process in distributed system
Content	The topics covers in this course such as the characteristic of distributed system, communications, security, naming & trading, fault tolerance, concurrency control, and cloud computing
Examination forms	*Assignments, Post Test, Project, Scheduled Exam*
Study and examination requirements	*Assignments 15%, Project 30 %, Post Test 15 %, Scheduled Exam 40%*
Reading list	1. Jean Colouris, dkk, "Distributed System : Concept and Design, 5th Edition", Addison-Wesley. 2013 2. Andrew S. Tanenbaum, Maarten van Steen, "Distributed Systems, Principles and Paradigms, 2nd Edition", Pearson-Prentice Hall. 2007.