

Module designation	CE449 Computer Network
Semester(s) in which the module is taught	3
Person responsible for the module	Samuel Hutagalung
Language	English & Indonesian
Relation to curriculum	Compulsory
Teaching methods	Lecture, Interactive Multimedia, Independent Learning
Workload (incl. contact hours, self-study hours)	Total workload: 90.72 hours - 23.34 Synchronous lecture. - 56.04 Self-study and assignments in the form of essays. - 2x5.67 Exam and self study
Credit points	2 SKS / 3.36 ECTS
Required and recommended prerequisites for joining the module	-
Module objectives/intended learning outcomes	Module objectives: Students can explain the basic principles, medium, and related problems of data communication in computer networks. ELO (Performance Indicator) : <ul style="list-style-type: none"> • B1 - Consider ethics, social sensitivity, nontechnical effects, health, safety, and legal issues in engineering activities. • H1 - Understand the concept of communications between computer systems, operating systems, and computer security.
Content	This course discusses networks and communication between computers, especially internetworking protocols (OSI and TCP/IP layers) and their implementation with a top-down approach, from the application layer used daily to the physical layer.
Examination forms	Written Test
Study and examination requirements	The total weighted average for the assignments (30%), midterm (30%), and final (40%) exams must be ≥ 55 .
Reading list	Kurose, J. 2013. Computer Networking A Top Down Approach (6thEdition). New York: Addison Wesley (Kur)