Module designation	CE541 Computer Network Management
Semester(s) in which the module is taught	4
Person responsible for the module	Samuel Hutagalung
Language	Indonesian
Relation to curriculum	Compulsory
Teaching methods	Lecture, Problem Based, Demonstration, Hands-On, Independent Learning
Workload (incl. contact hours, self-study hours)	Total workload: 136.08 hours - 23.34 Synchronous lecture. - 56.04 Self-study and assignments - 23.35 Lab module (and in-class assistance) - 16.34 Self-lab and assignments - 17.01 Exam and self study
Credit points	3 SKS / 5.04 ECTS
Required and recommended prerequisites for joining the module	CE449 Computer Network
Module objectives/intended learning outcomes	Module objectives: • Able to explain routing and switching features that are used in small to medium-scale computer network infrastructure. • Able to design small to medium scale computer network infrastructure. ELO (Performance Indicator) : • H1 - Understand the concept of communications between computer systems, operating systems, and computer security. • H2 - Ability to design network infrastructure based on the understanding of operating systems and computer security in server management.
Content	The course discusses the concepts and implementation of routing switching protocols, security features, traffic engineering, and WAN technology.
Examination forms	Written Test, Product Based

Study and examination requirements	The total weighted average for the assignments (30%), midterm (30%), and final (40%) exams must be >= 55.
Reading list	1. Huawei HCNA-HNTD 2. Samuel Hutagalung, Cahyo Samudera. 2017. Rancang Bangun Mekanisme Load Sharing Pada Link Aggregation Menggunakan Software Defined Networking. Ultima Computing 9 ((1)), 41-47