

21B33C304 – Computer Network

Module designation	Computer Network (Undergraduate)
Semester(s) in which the module is taught	4 th
Person responsible for the module	Dr. Eng. Jumadi M Parenreng, M. Kom Dr. Eng. Abdul Wahid M. Kom Muh. Mahdinul Bahar, S. Kom., M.Kom
Language	Indonesia - English
Relation to curriculum	This course is a compulsory course
Teaching methods	Lecture, Presentation,
Workload (incl. contact hours, self-study hours)	CH: 09.00-17.00 Face to face: 4x50 minutes / week Independent Study: 4x50 minutes / week Structured assignment: 4x50 minutes / week
Credit points	4 SKS (equivalent 6.8 ECTS)
Required and recommended prerequisites for joining the module	-
Module objectives/intended learning outcomes	Program Learning Outcomes (PLO) PLO 3: Demonstrate a responsible attitude towards work in their field of expertise independently PLO 4: Mastering concepts, theories, methods and/or philosophy in the field of programming science. PLO 7: Able to apply logical, critical, systematic and innovative thinking in the context of the development or implementation of science and technology that pays attention to and applies humanities values appropriate to their field of expertise. PLO 8: Able to demonstrate independent, quality and measurable performance. PLO 11: Demonstrated ability in the field of computer technology. Course Learning Objectives (CLO)

	After attending and completing the course, students are expected to be able to recognize, understand, create series, measure and analyze work results in accordance with applicable standards. Sub CLO: Sub-CLO 1: Students are able to know about Computer Networks Sub-CLO 2: Students are able to understand the hardware that forms computer networks Sub-CLO 3: Students are able to understand Computer Network Topology Sub-CLO 4: Students are able to understand Network Protocols and Technology Sub-CLO 5: Students are able to understand the OSI and DOD Layer References Sub-CLO 6: Students are able to understand IP addresses Sub-CLO 7: Students are able to understand Subnetting Sub-CLO 8: Students are able to understand Routing Sub-CLO 9: Students are able to understand DNS (Domain Name System) Sub-CLO 10: Students are able to understand the Internet and Intranet Sub-CLO 11: Students are able to understand Wireless Technology Sub-CLO 12: Students are able to understand about Virtual Private Networks
Content	Students will learn about: • Computer Network • Hardware that forms computer networks • Computer Network Topology • Network Protocols and Technology • OSI and DOD Layer Reference • IP Address • Subnetting • Routing • DNS (Domain Name System) • Internet and Intranet • Wireless Technology • Virtual Private Networks
Examination forms	Assessment Techniques: Exam, Presentation Assessment Forms: Assignment, Presentation Assessment
Study and examination requirements	• Students have to inform the lecturer when they are not able to attend the class due to sickness etc • Active in making projects by showing participation in making projects in class • Able to present and answer questions that exist during project presentations

Reading List	• (Wireless Network Administration A Bginner Guide) Wale Soyinka. Wireless Standards and Technologi- Desain, Survey and deploy A Wireless Network, Linux, Windows, and Max OS Platforms • (Wireless Networks) Jordi Salazar. (A Brief History of Everything Wireless) Petri Launiainen.
---------------------	--