

Implementation plan Being edited

Study unit	Data Networks (01117), 10.0
Implementation	NIA1211: 1/2012-2013 (03.09.2012 - 14.12.2012)
Type	INITIATION OF PROFESSIONAL GROWTH (A029)
Groups	Primary: NIA12SN Others :
Involved in the project	
Lecturers	Riku Salmenkylä
Number of participants	Minimum: Maximum:
Enrolment period	21.05.2012 08:00 - 03.06.2012
Main timing for implementation	
Applicability	For exchange students: Yes For elective studies: Yes Open UAS student: Yes Suitable for virtual UAS: No
Teachers	Salmenkylä Riku (Teacher in charge), Takala Jouni (Other teacher), Tikanmäki Ilkka (Other teacher)
Campus	Laurea Leppävaara
Main location for implementation	
Implementation method	Optima realization/student group, Other method of implementation Language: English Virtuality: 0 cr Integration of R&D: 0 cr
Implementation class	
Focus areas	
Evaluation at the latest	14.01.2013 Storing of graded material ends.: 17.12.2013
Exam days	Real: week 49 (tentative)
Having completed the study unit the student is able to	# know the basic theory behind data networks # describe the concepts of LANs, WANs and WLANs # describe and define operation and active equipment of a LAN # justify solutions and purchases related to data networks # work responsibly in a company's data network
Previous studies	
Previous studies, more information	This is a technical course. Basic understanding and experience of computers and how they can access data networks like Internet is very useful.
Learning objectives	After the course students can: - Explain the terms and acronyms in data networking - Describe the basic technology under modern networking - List basic networking protocols and their purpose - Participate in networking related projects
Contents	• Computer basics • Microsoft LAN and Windows OS environment • Linux OS • Server and workstation configuration in MS networks • Switching and routing • Cabling • Binary calculations
Study material	CCENT/CCNA ICND1 (Cisco Certified Entry Networking Technician/Cisco Certified Network Associate

Implementation plan Being edited

	Interconnecting Cisco Networking Devices 1)
Tutoring and communication	
Evaluation criteria and methods	To be agreed in the beginning of the study unit, tentatively: Weight Grade Exam 70% 0-5 Lab exercises 20% pass/fail Activity 10% 0-5
Other arrangements	Contact hours two times a week, starting from week 36 (Sept 5th): - Thursday afternoon 12:30-16:00 for lectures and instructions - Friday afternoon 12:30-16:00 for practical exercises in the computer room or small individual assignments on paper