

Implementation plan Finished

Study unit	Internet Infrastructure and Security (R0385), 5.0
Implementation	CCA1712: 1/2017-2018 (28.08.2017 - 22.12.2017)
Type	INFORMATION INFRASTRUCTURE AND SECURITY (A845)
Groups	Primary: CCA17SY Others :
Involved in the project	
Lecturers	
Number of participants	Minimum: Maximum:
Enrolment period	15.05.2017 08:00 - 31.05.2017
Main timing for implementation	As intensive week(s)
Applicability	For exchange students: No For elective studies: Yes Open UAS student: No Suitable for virtual UAS: Yes
Teachers	Koponen Seppo (Teacher in charge), Salmenkylä Riku (Other teacher)
Campus	Laurea Leppävaara
Main location for implementation	Virtually
Implementation method	Optima realization/student group, Web/virtual Language: English Virtuality: 4 cr Integration of R&D: 0 cr
Implementation class	LbD supporting knowledge and skills development
Focus areas	Security, safety and social responsibility
Evaluation at the latest	22.01.2018 Storing of graded material ends.: 22.12.2018
Exam days	
Having completed the study unit the student is able to	The student is able to • describe the operations and protocols in global IP networks • calculate IP subnets and supernets • describe security vulnerabilities in IP network infrastructure • compare and contrast IPv6 to IPv4 • describe the functional concepts and security risks in wireless networking
Previous studies	
Previous studies, more information	Students should be familiar with TCP/IP networking and protocols, Ethernet LANs and their operation and basics of IT security: Study units R0240 (or R0277) and R0242 (or R0280) (or A9149 or A9290 pre-2017) provide suitable background.
Learning objectives	
Contents	The study unit is built around weekly assignments in Optima environment. There will also be weekly meetings at campus where the weeks learning will be discussed and presented.
Study material	CCENT/CCNA ICND1 Official Exam Certification Guide. 2nd ed. ciscopress.comCCNA ICND2 Official Exam Certification Guide. 2nd ed. ciscopress.comOther material announced at 1st. lecture
Evaluation criteria and methods	The evaluation is based on the weekly assignments at Optima, presentations and work at weekly meetings at campus and a final exam.
Other arrangements	Note that we begin 1.11.2017 and work then weekly until 13.12.