

Implementation plan Finished

Study unit	Network Security (A9160), 5.0
Implementation	CCA1511: 1/2015-2016 (31.08.2015 - 23.12.2015)
Type	CYBERSECURITY TECHNOLOGIES (A843)
Groups	Primary: CCA15SY Others :
Involved in the project	
Lecturers	Paresh Rathod & Pasi Kämppi
Number of participants	Minimum: Maximum:
Enrolment period	18.05.2015 08:00 - 31.05.2015
Main timing for implementation	
Applicability	For exchange students: Yes For elective studies: No Open UAS student: No Suitable for virtual UAS: Yes
Teachers	Rathod Paresh (Teacher in charge), Kämppi Pasi (Other teacher)
Campus	Laurea Leppävaara
Main location for implementation	
Implementation method	Optima realization/student group, Web/virtual Language: English Virtuality: 3 cr Integration of R&D: 0 cr
Implementation class	LbD based on local project or development task
Focus areas	Security, safety and social responsibility, Service business
Evaluation at the latest	23.01.2016 Storing of graded material ends.: 23.12.2016
Exam days	
Having completed the study unit the student is able to	The student is able to: • analyse the security of a data link layer and a network layer • describe how cryptographic mechanisms work and how to apply them • protect wireless LANs • use intrusion detection and prevention systems to enhance network security
Previous studies	
Previous studies, more information	Following know-how helps in study. However those are not mandatory to register in the study unit. • Basics of computers and general overview of ICT field. • Knowledge of Networking OSI model is helpful for smooth studying.
Learning objectives	The study unit offers education that ensures security professionals have a deep knowledge and understanding of new network threats, technologies, standards and practices.
Contents	This study unit is mapping with -The Certified Ethical HackerContent: This study unit covers almost 50% of ethical hacking topics. Details will be provided during study offering.Generic competences are part of study offering.
Tutoring and communication	There are two possible Learning Track for students: 1) Workshop, 2) Self-learning with TestNote: Student can select one of them to suit their own learning orientation. <u>Track-1: Student Driven and Teacher Guided Workshops</u> Learning methods include in-depth online learning on network security topics. Workshop will provide a platform for learning reflection including individual/group learning activities and exercises. <u>Track-2: Self-learning and evaluation with Test</u>

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	This track suits to self-learner students. The material will be available online for self-study on learning platform. Student study material and take test to assess their learning outcomes. Details will be provided during study offering
Evaluation criteria and methods	Track-1: Students collect points for team work for workshop, workshop learning activities with all classmates, self-evaluations, workshop evaluations and two online tests. Track-2: Students collect points for weekly online learning and writing reflection and two online tests. The evaluation is based on Laurea Generic competences matrix
Work strain	5 credits Total 137.5 hours of student learning time 8-10 hours per week