

Implementation plan Finished

Study unit	Network Security (A9160), 5.0
Implementation	CCA1611: 1/2016-2017 (05.09.2016 - 23.12.2016)
Type	CYBERSECURITY TECHNOLOGIES (A843)
Groups	Primary: CCA16SY Others :
Involved in the project	
Lecturers	
Number of participants	Minimum: Maximum:
Enrolment period	16.05.2016 08:00 - 31.05.2016
Main timing for implementation	
Applicability	For exchange students: Yes For elective studies: No Open UAS student: No Suitable for virtual UAS: Yes
Teachers	Rathod Paresch (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	23.01.2017 Storing of graded material ends.: 23.12.2017
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	
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.Laurea generic competences are part of study offering.
Study material	We are using following material and tools for learning: (1) Online Learning Tool (2) Optima CMS (3) Library and web resources
Tutoring and communication	This study unit is fully online learning with the possibilities of tutoring meetings with teacher. Tutoring meeting and GuidanceFully online learning(due to high number of enrollment).Teachers will schedule few volunteer meetings for guidance. Any participant can join guidance meeting and discuss with teachers and fellow classmates. Details will be provided with schedule.
Evaluation criteria and methods	Students collect points for following learning activities: 1. Student will do and finish weekly regular studies on our online platform 2. Finishing one- two weekly learning tasks (For example, Learning Reflection, Quizzes, Exercises) 3. Two major learning taskswith selection choices (1) Applied learnt skills in

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	Working Life Scenarios (2) Practical Hands-on Exercises at Laurea NEON Lab 4. Two online multiple choice tests Student can meet teachers and seek guidance during volunteer contact meetings. 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
Other arrangements	Normally, we have very high number of applicants in our cybersecurity courses. Students with previous studies in Information and CyberSecurity can benefit more from the studies. However, any students in BIT/TIKO or Turva/SM can apply in this study offerings.