

Implementation plan Finished

Study unit	Network Security (R0324), 5.0
Implementation	CCA1711: 1/2017-2018 (03.09.2017 - 22.12.2017)
Type	CYBERSECURITY TECHNOLOGIES (R060)
Groups	Primary: CCA17SY Others :
Involved in the project	
Lecturers	Paresh Rathod, Pasi Kämppi
Number of participants	Minimum: Maximum:
Enrolment period	15.05.2017 08:00 - 31.05.2017
Main timing for implementation	According to a schedule agreed by the parties
Applicability	For exchange students: Yes For elective studies: Yes 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, Technological competence and entrepreneurship (FUAS)
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 • plan and perform penetration testing • apply covert techniques to scan and attack a network • assess and prevent security gaps in a network infrastructure • implement security controls to network security • identify and apply tools and techniques used to evade IDS, firewalls, and honeypots
Previous studies	
Previous studies, more information	Students finished following will get priority due to advance studies: • Information Security Management • Introduction to Information Security • Information Security Development Project
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's content is mapped with The Certified Ethical Hacker Content: This study unit covers almost 50% of ethical hacking topics. • This is only preparatory training of CEH. • 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 Guidance: Teachers will schedule few volunteer meetings for guidance. Any participant can join guidance meeting with teachers and fellow classmates. Hands-on Lab (Volunteer only): We are planning to offer hands-on lab for student practice (on volunteer bases). We will confirm this arrangement in the first week of September 2017. All details will be provided at the start of study unit.

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Evaluation criteria and methods	Students collect points for following learning activities: Weekly Modules: Student will finish weekly regular studies on our online platform Learning Tasks: Finishing weekly or biweekly learning tasks (For example, Learning Reflection, Quizzes, Problem Solution, Exercises) Problem Solution: Two major learning tasks Online Tests: Two online multiple choice tests Tutoring: Student can meet teachers and seek guidance during volunteer contact meetings. The evaluation is based on Laurea Generic competency metrics
Work strain	Kindly notice following carefully before registering in study unit. This is a professional training study unit and it requires regular weekly learning effort. 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 cybersecurity courses. Students with previous studies in Information and CyberSecurity can benefit more from the studies. However, any students finished first year of studies in BIT/TIKO or Turva/SM can apply in this study offerings.