

## Implementation plan Finished

|                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Study unit                                             | Enterprise Applications Security (A9161), 5.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Implementation                                         | CCA1521: 2/2015-2016 (01.02.2016 - 23.06.2016)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Type                                                   | CYBERSECURITY TECHNOLOGIES (A843)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Groups                                                 | Primary: CCA15SY Others :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Involved in the project                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Lecturers                                              | Paresh Rathod and Pasi Kämppi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Number of participants                                 | <b>Minimum: Maximum:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Enrolment period                                       | 30.11.2015 08:00 - 07.12.2015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Main timing for implementation                         | On working days during daytime                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Applicability                                          | <b>For exchange students:</b> Yes <b>For elective studies:</b> Yes <b>Open UAS student:</b> No <b>Suitable for virtual UAS:</b> 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 <b>Language:</b> English <b>Virtuality:</b> 3 cr <b>Integration of R&amp;D:</b> 1 cr                                                                                                                                                                                                                                                                                                                                                                                                           |
| Implementation class                                   | LbD based on local project or development task                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Focus areas                                            | Security, safety and social responsibility, Service business                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Evaluation at the latest                               | 23.07.2016 <b>Storing of graded material ends.:</b> 23.06.2017                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Exam days                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Having completed the study unit the student is able to | <p>The student is able to:</p> <ul style="list-style-type: none"> <li>• recognize information security risks related to web and email and how to avoid them</li> <li>• describe and analyze information security risks and protection mechanisms related to cloud services</li> <li>• analyze security risks related to the data terminal equipment of an organization and how to avoid them</li> <li>• avoid social engineering type information security threats</li> <li>• protect database applications against valid threats</li> </ul> |
| Previous studies                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Previous studies, more information                     | Recommended studies: Managing Information Security or Introduction to Information Security. Above studies will help students for smooth studying in this study unit.                                                                                                                                                                                                                                                                                                                                                                         |
| Learning objectives                                    | This study unit offers training in eight topics of <u>Certified Ethical Hacking (CEH)</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Contents                                               | The study unit content is mapped with eight <u>Certified Ethical Hacking (CEH) body of knowledge</u> . The study provide training to prepare for Ethical Hacking certification.                                                                                                                                                                                                                                                                                                                                                              |
| Study material                                         | Online learning + Library resources                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Tutoring and communication                             | <b>Main communication platform:</b> Optima (Course Management System) <b>Online Learning Platform:</b> Weekly Scheduled Online Learning on our online learning platform <b>Contact Sessions:</b> There will be weekly contact sessions for learning guidance. <b>Team Work:</b> There will be team work on workshop and learning tasks (during and after contact session) <b>Note:</b> Study unit offered in the English language. Tutoring and guidance are also available in Finnish.                                                      |
| Evaluation criteria and methods                        | <p>There are two different possibilities based on student learning orientation.</p> <p><b><u>Learning Choice-1): Regular weekly studies guided by teachers</u></b></p>                                                                                                                                                                                                                                                                                                                                                                       |

## Implementation plan Finished

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           | <p>Student Driven and Teacher Guided Workshops: Learning methods include in-depth online learning on eight Certified Ethical Hacking (CEH) body of knowledge (BoK). The workshops will provide a platform for learning reflection including individual/group learning activities and exercises.</p> <p><b><u>Learning Choice-2): Online Distance Learning</u></b></p> <p><b><u>The student will be provided online learning material and s/he do regular weekly distance learning. This method will have Self-study (Online Learning) + Weekly Learning Tasks + 2 Online Tests</u></b></p> |
| <b>Work strain</b>        | <p><b>Resource allocation:</b></p> <ul style="list-style-type: none"> <li>• 5 credits/137.5 hours of student work/8 hours per week</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Other arrangements</b> | <p>There will be selection of students. Business Information Technology and Security Management students will get priority.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |