

Audit de Sécurité Technique

Chapter 0 Organisation

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Course Objective

- Perform a relatively consequent practical project related to « security evaluation » of information systems
 - You will have a « security consultant » role
 - Client environment
 - Related to
 - Audit/ISO 27001
 - Penetration testing (network/webapp)
 - Report and present your work
- Learn how to structure and present your security work

Course organisation/contents

- Part I - Theory
 - Admin/Information Security fundamentals
 - Reporting
 - Pentesting, preparation of pentest
 - Recon and scanning
 - Exploitation
 - Reporting and presentation
- Part II
 - Practical work - project including scoping, reporting and presentation

Hours Repartition

- 4 ECTS credits
- Supervised work: 80 periods
 - Lectures: 19 periods
 - Exercises/Labs: 3 periods
 - Project: 58 periods
- Personal work: 80 periods
 - Presentation and final reporting: 30 periods
 - Project: 50 periods

Evaluation

- Project grade
 - Evaluation and grading announced separately.
- 1 or 2 tests during the theoretical part of the course
- Final grade
 - Project (80%) + tests (20%)

Project

- Practical work
- Individual or in group
 - if in group, the project scope will obviously be larger
- Project topics
 - You bring your suggestions
 - Explore your network and contacts
 - There might be some practical topics proposed by industry
- All project topics must be approved by the professors
 - Deadline for the proposal and approval process: **Friday 13.10.2019**
 - Proposal template

Planning

This calendar is given as an indication and can be changed at any time

S	S	Séance	Date	Chap.	Contenu	Rendus
1	38	a	19.09	0, 1.1 ARS	Admin/Intro + Infosec fundamentals	
		b	20.09		Project – free/search for a company	
2	39	a	26.09	1.2, 2.1 JEB	Standards, Pentest	
		b	27.09	2.2, 2.3 ARS	Discovery and scanning, vulnerability management	
3	40	a	03.10		Discovery and scanning lab	
		b	04.10	2.4, 2.5 JEB	Exploitation and tools, Preparation of pentest (SOW), communications and reporting	
4	41	a	10.10		Exploitation lab	
		b	11.10		Exploitation lab	Project proposals to be approved by 13.10
	42	a	17.10		Exploitation lab	Quiz
		b	18.10		Lab and training	
5	43	a	24.10		Interruption des cours	
		b	25.10			
6	44	a	31.10		Project – free	
		b	01.11		Project – free	
7	45	a	07.11		Project – free	
		b	08.11		Project - free/ Q&A session G05	Optional deliverable (Lab pentest report) by 09.11 at 18:00
8	46	a	14.11		Project – free	
		b	15.11		Project - free/ Q&A session G05	

Planning

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S	S	Séance	Date	Chap.	Contenu	Rendus
9	47	a	21.11		Project – Scoping presentations	
		b	22.11		Project – Scoping presentations	All scoping presentations done by 24.11
10	48	a	28.11		Project - free	
		b	29.11		Project - free/ Q&A session G05	
11	49	a	05.12		Project - free	
		b	06.12		Project - free/ Q&A session G05	
12	50	a	12.12		Project - free	
		b	13.12		Project - free/ Q&A session G05	
13	51	a	19.12		Project - free	Quiz ?
		b	20.12		Project - free/ Q&A session G05	
	52				Interruption des cours	
	1				Interruption des cours	
14	2	a	09.01		Project - free	
		b	10.01		Project - free/ Q&A session G05	
15	3	a	16.01		Project - free	
		b	17.01		Project - free/ Q&A session G05	Deliverables by 19.01 at 18:00
16	4	a	23.01		Presentations	
		b	24.01		Presentations	

Course material

- Available on
 - Mac OS X: `cifs://eistore1/profs/ARS/cours/AST-2019`
 - Windows: `\\eistore1\profs\ARS\cours\AST-2019`

Communication

- General questions - telegram channel:
 - <https://t.me/joinchat/Ejh8b0bfKLQS9box5mnksQ>
- Personal questions - message us in private on telegram or send an email (abraham.rubinstein@heig-vd.ch, jean-marc.bost@heig-vd.ch, and lucie.steiner@heig-vd.ch)
 - Questions about Lab VM solutions
 - Questions about security project
 - Especially if covered by NDA