4TU Cyber Security Master Specialization – Kick off

Andreas Peter, Twente
Stjepan Picek, Delft

https://4tu.nl/cybsec

For EIT Digital Cybersecurity students: Florian Hahn, Twente
Agenda

• Introduction to the 4TU.CybSec degree program

• Presentation of various courses

• Questions & Answers
Characteristics of the program

• Risk management
• Technology (2/3) in context (1/3)
• 2 year full time program, start 2x per year
• Tele-lecturing + some travel (Corona-update: most courses offered fully online)
• Core courses
• Introductory and advanced electives
• Final year project
• Capstone Cyber Security
• Certificate
• Agreed Individual Study Plan (ISP)
Course portfolio

Core courses
1. CDA: Cyber Data Analytics
2. CRM: Cyber Risk Mgmnt.
4. NeS/InS: Network/Internet Security
5. SoS/PAS: Software Security

Electives
6. ASA: Applied Sec. Analysis
7. BCE/BCT: Blockchain
8. Bio: Biometrics
10. CCS: Cyber Crime Science
11. CoE: Computer Ethics
12. CSM: Cyber Security Mgmnt.
13. Ela: E-Law
14. EoS: Economics of Security
15. GoC: Governance of Cybersecurity *new*
17. Q101: Fund. quant. inf. (only lecture recordings)
19. SCC: Secure Cloud Computing *new*
20. SDM: Secure Data Mgmnt.
21. SeV: Security Verification
22. SSI: Security Services for IoT
24. SyS: System Security
Focus

• Network : Crp, InS/NeS, SSI

• Software : SoS/PAS, SeV, STR

• Data : CDA, PET, SDM

• System : BCE/BCT, SCC, SyS
Advisory board

The ideal graduate:
• is an über technologist
• speaks a second language
• is able to translate strategic questions into technical questions and vice versa
• enjoys solving technical problems and is capable of abstract thought.
Alumni work as

- Computer and network security specialist
- Chief Technical Officer
- Developer
- Digital expert police
- Entrepreneur
- Ethical hacker
- Information security advisor
- Lead engineer
- Lecturer
- Management consultant

- PhD student
- Privacy advisor
- Researcher
- Security & privacy consultant
- Security analyst
- Security consultant
- Senior analyst and test consultant
- System Architect
- Software engineer
- Technical consultant
Practical information

- Lectures and exams at your own university  
  (Corona-update: lectures online)
- Labs may require travel
- You must be enrolled at both universities
- Not all lectures are recorded (but most are)
- Corona-update (timetable doesn’t show this): Twente courses start at 9:00 and 11:00, resp.; BUT Delft courses start at 8:45 and 10:45, resp.; afternoon slots always at “quarter to”, so at 13:45 and 15:45, resp.
- Not all vacations are synchronized

- FAQ:  
  [https://www.4tu.nl/cybsec/en/faq/](https://www.4tu.nl/cybsec/en/faq/)
What to do now?

• Register at the other university
• Make a draft individual study plan (ISP), see http://www.4tu.nl/cybsec/en/course-program/study-plans/
• Pay attention to the pre-requisites
• Agree your ISP with your program mentor
• Sign up for your courses at both universities

• Follow us on:  

Facebook  
Twitter
Extra-curricular activities

Fun ahead!
Twente Hacking Squad (THS)
(extra-curricular activity)

Hands-on Hacking
Software Exploitation
Digital Incident Investigation
Code Breaking
&
Hacking Competitions

Twente Hacking Squad (THS)
(extra-curricular activity)

THS students win the national “Challenge the Cyber” CTF-contest (>100 participants)!

7 September 2019