# 4TU Cyber Security Master Specialization – Kick off

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https://4tu.nl/cybsec









# Agenda

Introduction to the 4TU.CybSec degree program

Presentation of various courses

Questions & Answers

• Cake, coffee, and tea + discussions





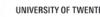


### Characteristics of the program

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









### Course portfolio

#### Core courses

- CDA: Cyber Data Analytics
- CRM: Cyber Risk Mamnt.
- Crp: Security and Crypto.
- NeS/InS: Network security
- SoS/PAS: Software Security

#### **Electives**

- ANS: Adv. Netw. Sec
- ASA: Applied Sec. Analysis
- 8. BCE/BCT: Block chain
- **Bio: Biometrics**
- Cap: Capstone cyber sec.
- CCS: Cyber Crime Science

- 12. CoE: Computer Ethics
- 13. CSM: Cyber Security Mamnt.
- 14. Ela: E-Law
- 15. EoS: Economics of Security
- PET: Privacy Enh. Tech.
- Q101: Fund. quant. inf.
- 18. Q201: Quant. Comm&crypto.
- 19. SDM: Secure Data Mgmnt.
- 20. SeV: Security Verification
- SSI: Security Services for IoT
- 22. STR: SW test. & Rev. Eng.
- 23. SyS: System Security









#### Focus

Network : Ins/NeS, ANS, SSI

Software : SoS/PAS, SeV, STR

• Data : Bio, Crp, CDA, PET, SDM

System : ASA, BCE/BCT, 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
- Labs may require travel
- You must be enrolled at both universities
- Not all lectures are recorded
- Not all vacations are synchronized
- 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













# Twente Hacking Squad (THS)

Cyber Security

(extra-curricular activity)



#### Hands-on Hack1ng

Software Explo1tation

D1gital Incident Investigation

Code Break1ng

&

**Hacking Competitions** 



http://scs.ewi.utwente.nl/home/TwenteHackingSquad/











### Twente Hacking Squad (THS)

(extra-curricular activity)



OFERN CYBER SECURITY,



THS students will represent the Netherlands at European Cyber Security Challenge in Bucharest!

**Sep 7, 2019:** THS students win the national "Challenge the Cyber" CTF-contest (>100 participants)







