

Vak: Beveiliging en Techniek

credits: 4

Vakcode	ITVB18SCY3
Naam	Beveiliging en Techniek
Studiejaar	2019-2020
ECTS credits	4
Taal	Nederlands
Coördinator	H.T. Keulen

Werkvormen	Hoorcollege Opdracht
Toetsen	Practicumopdracht - Overige toetsing Tentamen B&T - Computer, organisatie tentamenbureau

Leeruitkomsten

De student

- benoemt de begrippen,
- kenschetst de problemen,
- verklaart de verschijnselen,
- kiest de gereedschappen, en
- voert de stappenplannen uit die ten gronde liggen aan
- technische beveiligingskunde,
- toegepaste cryptografie,
- netwerkbeveiliging,
- computerbeveiliging, en
- applicatiebeveiliging.

The student

- recalls the concepts,
- illustrates the problems,
- explains the phenomena,
- selects the tools, and
- carries out the procedures behind
- security engineering,
- applied cryptography,
- network security,
- computer security, and
- application security.

Note: The description in English is the canonical version. It follows the Revised Bloom's Taxonomy, described in A Taxonomy for Learning, Teaching, and Assessing by Anderson and Krathwohl.

Body of knowledge: The course covers a technical subset of CISSP. This is specified in more detail in the CISSP Detailed Content Outline and in the CISSP Official Study Guide.

Context of use: The focus is on integrating security into the systems development life cycle.

Inhoud

- Security engineering
 - Principles & standards
 - Requirements engineering
 - Threat modelling (ARA)
 - Security assessment
- Applied cryptography
 - Symmetric cryptosystems
 - Public-key cryptography
 - Key life-cycle management
 - Implementation issues
- Network security
 - Packets & protocols
 - Network architectures
 - Wireless technology
 - Monitoring & response
- Computer security
 - Access control methods
 - Authentication & auditing
 - Forensics & reversing
 - Hardware-related concerns
- Application security
 - Languages & programs
 - Exploitation & mitigation
 - Distributed applications
 - Release engineering

Opgenomen in opleiding(en)

HBO-ICT, Major Network & Security Engineering

School(s)

Instituut voor Communicatie, Media & IT

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