

University of Johannesburg
Academy of Computer Science and Software Engineering
Centre for Cyber Security
Certificate in Cyber Security
SECOND INTAKE

This Certificate is directed towards parties working full time and who wants to get a formal qualification in Information and Cyber Security. The Certificate is on NQF Level 5, and successful students will get an official Certificate from the University of Johannesburg.

The courses consist of 5 modules of 3 days each. Each module will be formally examined and all 5 modules must be passed to pass the course.

Content and dates:

Module 1: Introduction to Information and Cyber Security (INCSG5)

Date: 5 – 7 July 2018

- Introduction to security concepts
- Security of Desktop computers
- Internet Security
- Personal data security
- Wireless Security
- Management aspects of security
- Research assignment

Module 2: Introduction to Encryption Techniques (INTENT2)

Date: 2 – 4 August 2018

- Symmetric encryption
- Public key encryption
- Digital Certificates/Identities
- Certification Authorities
- Digital signatures
- Research assignment

Module 3: Introduction to Digital Forensics (INTDIG3)

Date: 30 August – 1 September 2018

- Introduction to computer crime
- Digital forensic investigations
- Handling of digital evidence
- Practical digital forensic investigation
- Research assignment

Module 4: Introduction to Malicious Software and Ethical Hacking (INTMSE4)

Date: 4 – 6 October 2018

- Introduction to the different types of malicious software
- Attack vectors used by malicious software
- Use of ethical hacking
- Research assignment

Module 5: Introductions to Cyber Security Governance, Critical Information Infrastructure Protection, Cybercrime and cyber warfare (INTICS1)

Date: 1 – 3 November 2018 (Exam Date: 26 November 2018)

- Introduction to Cyber Security Governance
- Introduction to Critical Information Infrastructures and Critical Information Infrastructure Protection (CIIP)
- Computer Security Incident Response Teams (CSIRTs)
- The relationship between Cyber Security Governance and CIIP
- Cyber security, CIIP and Cyber warfare

CLASS TIMES: 09:00 –16:00

PLEASE NOTE ATTENDANCE OF CLASSES IS COMPULSORY AND IT IS YOUR RESPONSIBILITY TO TAKE NOTE OF THESE CLASSES AND EXAM DATES.

Please refer to the timetable for the scheduled class and examination times.

The cost of the certificate is R4000.00 per module payable in advance per module. A first minimum payment of **R3870.00**** is payable 5 working days before registration. Students are responsible for purchasing the necessary prescribed text books. This will be about ± R3500.00.

The minimum entrance requirements are:

- A Matric certificate or equivalent qualification
- Practical experience in the Information / Cyber Security Industry

The closing date for applications is 1 June 2018.

Apply early to avoid disappointment.

Please contact: Mr Carl van der Westhuizen / Ms Simangele Msibi on 011 559 2840 for more information.

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Visit:

- <https://www.uj.ac.za/faculties/science/csweb/Pages/Extra-Curricular.aspx>.
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