

**University of Johannesburg**  
**Academy of Computer Science and Software Engineering**  
**Centre for Cyber Security**  
**Certificate in Cyber Security**  
**Intake 1**

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: 31 January – 2 February**

- 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: 28 February – 2 March**

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

**Module 3: Introduction to Digital Forensics (INTDIG3)**

**Date: 4 April – 6 April**

- 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: 2 May – 4 May**

- 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: 6 June – 8 June (Exam Date: 8 July)**

- 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 textbooks. This will cost about ± R3500.00.

**\*\*UJ confirms the first minimum payment in November/ December 2018.**

**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 **15 January 2019**. Apply early to avoid disappointment.

Please contact Mrs Tosca Corregedor via e-mail: [infocs@uj.ac.za](mailto:infocs@uj.ac.za) OR alternatively you can contact me on 063 289 2990. I'll be available between 09:00 – 15:00 (Monday – Friday). If I'm unable to answer your call, please feel free to send me an email or a Whatsapp message with your email address and enquiry.

**PLEASE NOTE:** You can expect a response within 2 business days.

You can also visit the Academy's websites on:

- <https://www.uj.ac.za/faculties/science/csweb/Pages/Extra-Curricular.aspx>.
- <http://adam.uj.ac.za/csi/Courses.html>