

Certificate in Ethical Hacking and Information Security NQF (Level 7)



Programme Objective

The programme enables students to gain skills in security programming and get an in-depth insight into cognitive skills related to the Information Technology (IT) security domain. Students will be able to work in the fields of application security or ethical hacking, by acquiring practical skills to design and implement security measures in computer networks and systems.

Who Should Attend?

Applicants who have completed a Diploma programme in Computer Science, Information Systems, Information Technology or Informatics or an equivalent qualification from an accredited institution (NQF Level 6). Applicants with one-year experience in the aforementioned fields will be given priority. Applicants from other science and engineering disciplines or with prior learning experience may be admitted into this programme at the discretion of the Centre. Such applicants may be required to write a test or an interview to guide the selection.

Programme Outcomes

- Apply the principles of security management concepts to plan, design, and simulate appropriate security measures to counter possible risks and threats.
- Write security and cryptography related codes in java for Information Security.
- Apply threat diagnostic and security related problem-solving skills in a production environment.
- Can become members of professional/association bodies such as Certified Information Systems Security (CISSP), Certified Intrusion Analyst (CIA) and System Security Certified Practitioner (SSCP).
- Respect and demonstrate IT systems code of ethics within a workplace

Assessment

Continuous Assessment with Feedback (diversified) will be used for all courses.

Certificate

Upon successful completion of this courses, a qualification credited with a minimum of NQF 60 credits (NQF Level 7), will be awarded to candidates.

Programme Design

Each programme consists of four or five courses scheduled over one semester and as well as a project. The programme will be delivered on full-time (day and/or evening) in accordance with NUST rules. The Following courses in this programme are:

- Fundamentals of Linux programming
- Secured Python Programming
- Java Programming with Crypto API
- Information and Application Security
- Ethical Hacking
- Project Development

Note: This programme is not eligible for admission to an NQF Level 8 qualification.

Enquiries:

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