

**Title** *Secure Network Operations*  
**Long Title** *Certificate in Secure Network Operations*

<b>Awards</b>	Certificate	<b>Embedded Award</b>	No
<b>Programme Code</b>	CR_KSNOP_8	<b>Programme Credits</b>	20
<b>Mode of Delivery</b>	Part Time, Fully Online	<b>Programme Review Date</b>	April 2024
<b>No. of Semesters</b>	2	<b>Department</b>	Computer Science
<b>NFQ Level</b>	8		

### Programme Outcomes

*Upon successful completion of the programme the graduate will be able to demonstrate...:*

#### **PO1 - Knowledge - Breadth**

The learner will have knowledge and understanding of advanced concepts in the application of cyber-security principles to network operations including network security methodologies, methods for assessing and mitigating risk, security standards and log file analysis techniques.

#### **PO2 – Knowledge - Kind**

Detailed knowledge and understanding in the application of cyber-security techniques to the operation of computer networks. The ability to explain related concepts and theories, describe the limitations of some current theories and knowledge and attain the knowledge to prepare for future cybersecurity threats.

#### **PO3 – Skill - Range**

Demonstrate mastery of the skills and tools used to secure computer networks from current and future cyber threats.

#### **PO4 -Skill - Selectivity**

Identify and select appropriate strategies to solve problems encountered in the secure operation of computer networks.

#### **PO5 -Competence - Context**

Use advanced skills to securely operate computer networks. Diagnose and creatively solve potential cybersecurity issues in those networks in various contexts, which can be ill-defined.

#### **PO6 – Competence -Role**

Capable of independent work or as part of a team to effectively identify, formulate and solve problems in securely operating computer networks.

#### **PO7 – Competence -Insight**

The ability to articulate the wider social, political and business context within which the network operations professional operates and the need for high ethical and professional standards in ones work.

## Semester Schedules

### Stage 1 / Semester 1

#### Mandatory

Module Code	Module Title
CYBR8001	<u>Cybersecurity Standards &amp; Risk</u>
CYBR8002	<u>Secure Network Services</u>

## Semester Schedules

### Stage 2 / Semester 2

#### Mandatory

Module Code	Module Title
CYBR8003	<u>Secure Network Systems</u>
CYBR8004	<u>Log Files and Event Analysis</u>