

## DIPLOMA AND CERTIFICATE COURSES-COMPUTING

### 1. Diploma of Cyber security

**Duration:** 2 years

**Overview:** This diploma program focuses on cybersecurity principles, including network security, ethical hacking, and risk management.

**Course Structure:**

Cyber security Fundamentals  
Network Security  
Ethical Hacking Techniques  
Cyber Threat Intelligence  
Security Policy and Governance  
Incident Response and Management  
Industry-Based Cyber security Project

### 2. Certificate in Programming

**Duration:** 1 year

**Overview:** Geared towards programming skills, this certificate covers programming languages, software development, and coding practices.

**Course Structure:**

Introduction to Programming Concepts  
Software Development Fundamentals  
Programming Languages (e.g., Java, Python)  
Web Development Basics  
Problem-Solving in Programming  
Work-Based Coding Projects  
Industry Internship in Software Engineering

### 3. Certificate in Networking

**Duration:** 1 year

**Overview:** This certificate program focuses on networking skills, covering topics such as network configuration, troubleshooting, and security.

**Course Structure:**

Networking Fundamentals  
Routing and Switching  
Network Security  
Wireless Networking  
IP Addressing and Sub netting  
Network Troubleshooting  
Work-Based Networking Projects

#### 4. Diploma of Artificial Intelligence

**Duration:** 2 years

**Overview:** This diploma delves into artificial intelligence, covering machine learning, natural language processing, and AI application development.

**Course Structure:**

Machine Learning Algorithms  
Natural Language Processing  
AI Ethics and Governance  
Deep Learning and Neural Networks  
AI Application Development  
Industry-Based AI Project

#### 5. Diploma of Information Technology

**Duration:** 2 years

**Overview:** This diploma program provides a comprehensive understanding of information technology, covering areas such as system administration, network management, and software development.

**Course Structure:**

Introduction to Information Technology  
System Administration  
Network Security  
Database Management  
Programming Fundamentals  
Web Development  
Industry-Based IT Project

#### 6. Certificate in Web-Based Technologies

**Duration:** 1 year

**Overview:** Geared towards web technologies, this certificate covers web development, content management systems, and e-commerce.

**Course Structure:**

Web Development Fundamentals  
HTML and CSS  
JavaScript Programming  
Content Management Systems (CMS)  
E-commerce Platforms  
Responsive Web Design  
Work-Based Web Development Project

#### 7. Certificate in Cyber Security

**Duration:** 1 year

**Overview:** This certificate program focuses on cybersecurity principles, including network security, ethical hacking, and risk management.

**Course Structure:**

Cybersecurity Fundamentals  
Network Security

Ethical Hacking Techniques  
Cyber Threat Intelligence  
Security Policy and Governance  
Incident Response and Management  
Work-Based Cybersecurity Project

## **8. Diploma of Network Security**

**Duration:** 2 years

**Overview:** This diploma delves deeper into network security, covering advanced topics such as penetration testing, security architecture, and threat intelligence.

**Course Structure:**

Advanced Network Security Concepts  
Penetration Testing and Vulnerability Assessment  
Security Architecture and Design  
Threat Intelligence and Analysis  
Cloud Security  
Security Compliance and Governance  
Industry-Based Network Security Project

## **9. Certificate in Information Technology Networking**

**Duration:** 1 year

**Overview:** This certificate program focuses on IT networking skills, covering areas such as network administration, security, and troubleshooting.

**Course Structure:**

Networking Fundamentals  
Network Administration  
Network Security  
TCP/IP Protocols and Routing  
Wireless Networking  
Network Troubleshooting  
Work-Based IT Networking Project

## **10. Diploma of Cloud Engineering**

**Duration:** 2 years

**Overview:** Focused on cloud computing, this diploma covers cloud architecture, deployment, and management of cloud-based services.

**Course Structure:**

Cloud Computing Principles  
Cloud Infrastructure and Services  
Cloud Security  
DevOps Practices in the Cloud  
Cloud Deployment and Management  
Cloud-Based Application Development  
Industry Internship in Cloud Engineering

## **11. Certificate in Data Analysis**

**Duration:** 1 year

**Overview:** This certificate program focuses on data analysis skills, covering data visualization, statistical analysis, and data-driven decision-making.

**Course Structure:**

Introduction to Data Analysis  
Data Cleaning and Transformation  
Data Visualization Tools  
Statistical Analysis in Data  
Data-driven Decision-making  
Work-Based Data Analysis Project

## **12. Certificate in Fish Processing**

**Course Overview:**

The Certificate in Fish Processing is designed to provide participants with the essential skills and knowledge required for the efficient and sustainable processing of fish and seafood products.

This program covers various aspects of fish processing, including handling, preservation, quality control, and industry regulations. Participants will gain practical insights into the techniques and technologies involved in transforming raw fish into market-ready products.

**Duration:** 1 year

**Course Structure:**

**Introduction to Fish Processing:**

Overview of the fish processing industry and its significance.  
Introduction to different types of fish and seafood products.

**Fish Handling and Quality Control:**

Best practices in fish handling to maintain product quality.  
Understanding and implementing quality control measures in fish processing.

**Processing Techniques:**

Filleting, deboning, and portioning techniques for various fish species.  
Smoking, curing, and other preservation methods.

**Fishery Regulations and Compliance:**

Understanding local and international regulations governing fish processing.  
Compliance with sustainability standards and ethical considerations.

**Seafood Safety and Hygiene:**

Implementing strict hygiene standards in fish processing facilities.  
Adhering to seafood safety regulations to ensure consumer well-being.

**Value-Added Fish Products:**

Developing skills in creating value-added fish products.  
Introduction to product diversification and market trends.

**Fish Processing Equipment Operation:**

Safe operation and maintenance of fish processing machinery.  
Understanding the role of technology in modern fish processing.

**Environmental Impact Awareness:**

Understanding the environmental impact of fish processing activities.

Exploring sustainable practices in the seafood industry.

**Practical Hands-On Training:**

Hands-on experience in a simulated or real-world fish processing environment.

Practical exercises in filleting, processing, and packaging.

**Industry Visits and Guest Lectures:**

Field trips to fish processing facilities.

Guest lectures from industry experts to provide real-world insights.

**Final Assessment and Certification:**

Culminating assessments to evaluate theoretical and practical knowledge.

Awarding of the Certificate in Fish Processing upon successful completion.