



**JAE CODE C80**

Diploma in  
Infocomm  
& Security

## JAE CODE C80

# Diploma in Infocomm & Security

This is for you if you are raring to tap a wide range of exciting technologies to craft innovative IT solutions.

Embark on an exciting journey to develop secure innovative solutions linking computers and smart sensors. You will be trained in the latest fields such as the Internet of Things, cybersecurity, data analytics and infocommunications. Through hands-on projects, you will gain the technical expertise and business acumen to make your mark in the IT industry.

## This diploma lets you...

- Discover how to build and protect networks and services for businesses, keeping them safe from cyberattacks.
- Write programs to connect software and sensors to develop smart solutions in various industries such as healthcare, retail and transport.
- Specialise in one of the following emerging technologies: systems and network security, enterprise infrastructure or infocomm solutions.

## Career Paths

- Application Developer
- Infrastructure Executive
- Security Engineer/Executive
- Systems Analyst
- Systems & Network Security Engineer

## Course Curriculum

### YEAR 1

- App Development Project
- Business Statistics
- Computing Mathematics
- Data Analysis & Visualisation
- Digital Business
- Effective Communication Skills
- Fundamentals of Innovation & Enterprise
- Infocomm Security
- Law & Ethics of IT
- Network Technology
- Principles of UX Design
- Programming Essentials
- Web Development

### YEAR 2

- Advanced Web Application Development
- Communication & Personal Branding
- Data Structures & Algorithms
- Database Management Systems
- Internet of Things Data Management
- Internet of Things Project
- IT Services & Risk Management
- Network & Communications
- Network Security
- Software Engineering
- Systems Administration & Security
- Systems Security Project

### GENERAL STUDIES MODULES

You will complete a total of nine General Studies modules. Explore other areas of interest beyond your chosen area of specialisation.

Modules may be revised to align learning content with developing trends and technologies.

### YEAR 3

- Final Year Project
- Governance, Risk & Compliance
- Internship Programme or Overseas Internship Programme

### PREScribed ELECTIVES

(CHOOSE ONE SPECIALISATION)

#### 1. Systems & Network Security

- Cloud Security
- Computer & Network Forensics
- Cybersecurity Attack & Defense
- Cybersecurity Operations & Intelligence
- Systems & Network Security
- Systems & Network Security Project

#### 2. Enterprise Infrastructure

- Cloud Security
- DevOps Infrastructure
- Enterprise Infrastructure Project
- Enterprise Networking
- Enterprise Systems Administration
- Software-Defined Networking

#### 3. Infocomm Solutions

- Database Administration
- Enterprise Software Development
- Infocomm Solutions Project
- Mobile Applications Development
- Robotic Process Automation
- Smart Object Technologies

### CROSS-DISCIPLINARY ELECTIVE

(CHOOSE ONE)

- Disaster Recovery & Business Continuity Management
- Entrepreneurship
- Foundation of AI
- Social Media Analytics

Learners selected for the 1-year Internship Programme will only be required to complete the core module Governance, Risk & Compliance and one Cross-Disciplinary Elective.