



JAE CODE C85

Diploma in Information Technology

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This is for you if you want to build a better world by leveraging technologies such as artificial intelligence and cloud computing.

Ever wondered how your ride-hailing app can identify the nearest available car, or how Facebook recognises you in photos? This course links you to the areas of IT that make these possible. Learn to develop innovative software solutions and get a foot in the door to the world of AI or cloud computing.

This diploma lets you...

- Discover how AI and machine-learning play crucial roles in our everyday lives.
- Build a strong foundation in programming and gain practical skills in developing innovative solutions.
- Look forward to an exciting career in building IT solutions across industries.

Career Paths

- AI Specialist
- Application Consultant
- Cloud Architect
- Information Security Analyst
- Mobile Application Developer
- Project Manager

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 Programming
- Application Security
- Communication & Personal Branding
- Data Structures & Algorithms
- Database Management Systems
- Enterprise Development Project
- Full Stack Development Project
- Market Research & Technology Trends
- Mobile Application Development
- Operating Systems & Administration
- Software Engineering
- UX Design Methods & Techniques

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. Artificial Intelligence

- Advanced Topics in AI
- AI Applications Project
- Foundation of AI
- Machine Learning Techniques

2. Cybersecurity

- Cyber Forensic Technologies
- Cybersecurity Attack & Defense
- Cybersecurity Project
- Mobile Security

3. Enterprise Cloud Computing

- Cloud Application Development
- Cloud Architecture
- Enterprise Cloud Project
- Enterprise DevOps

4. Geospatial & Mobile Innovation

- Cloud Computing
- Geospatial & Mobile Innovation Project
- Geospatial Information System
- Spatial Analysis & Visualisation

CROSS-DISCIPLINARY ELECTIVE

(CHOOSE ONE)

- Disaster Recovery & Business Continuity Management
- Entrepreneurship
- Robotic Process Automation
- 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.