JAE CODE C75

Diploma in Infocomm & Media Engineering

JAE CODE C75

Diploma in Infocomm & Media Engineering

This is for you if you want to dive into infocomm and media, and make a mark in the digital space.

Be part of Singapore's vision of transforming into a Smart Nation. With new-generation Web applications and digital infotainment, infocomm and media are fast transforming the nation.

Learn to develop UX-centric apps, generate creative media designs and deploy critical apps on cloud infrastructures.

Look forward to rewarding career opportunities in the industry or pursue further education at prestigious universities worldwide.

This diploma lets you...

- Build your fundamental infocomm and media expertise by customising your study programme to suit your interests.
- Choose from four specialisations: software development, user experience design, cloud-based networking and media engineering.
- Work closely with industry partners on real-world projects.
- Gain internship experiences at renowned companies in the infocomm sector, including GovTech, Cisco and HUAWEI.

Career Paths

- Audio Visual Engineer
- Cloud Engineer
- Data Centre Engineer
- Front-End Web Designer
- Media Technology & Operations Professional
- Mobile App Developer

- Network Security Administrator
- Server Administrator
- Software Test Engineer
- UI Designer
- UX Designer
- Web App Developer

Course Curriculum

YEAR 1

- Algebra
- Computer System Essentials
- Data Communications & Networking
- Database Fundamentals
- Digital Media & Design
- Effective Communication Skills
- Electrical & Electronics Fundamentals
- Fundamentals of Innovation & Enterprise
- Object-Oriented Programming
- Programming Methodologies & Practices
- UI/UX Design
- Web Development

YEAR 2

- Communication & Personal Branding
- Cybersecurity Essentials
- IoT System Development
- Open Source Web Solutions Development
- Server Administration
- Web Design & Development
- Workplace Digital Skills

In the final year, you will have the opportunity to undertake a full-time project and a local or overseas internship programme for one semester.

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

YEARS 2 & 3

ELECTIVE PROGRAMMES *(CHOOSE ONE)*

1. Software & Applications
- Cross-Platform Mobile App Development
- Database Modelling & Implementation
- Emerging Trends & Technologies
- Infocomm System Project
- Mobile App Development
- Software Engineering Practices
- Software Security & Testing
- Web API Development

2. Cloud Infrastructure & Services
- Advanced Server Administration & Security
- Cloud App Provisioning & Management
- Cloud Architecture & Services
- Emerging Trends & Technologies
- Infocomm Infrastructure Project
- Network Technology
- Virtualisation & Cloud Computing
- Virtualisation Essentials

3. UX Design & Engineering
- Advanced UI/UX Design
- Animation for Digital Media
- Emerging Trends & Technologies
- Information Design & Visualisation
- Portfolio Design & Development
- UI/UX Design Project 1
- UI/UX Design Project 2

4. Media Technology & Systems
- Acoustics & Audio Systems
- Emerging Trends & Technologies
- Media Solutioning Project 1
- Media Solutioning Project 2
- Media Systems & Programming
- System Design & Project Management
- Video & Projection Systems

ELECTIVE MODULES *(CHOOSE TWO)*
- 3D Modelling & Technologies
- Advanced UI/UX Design
- Business Process Automation
- Cloud Architecture & Services
- Creative Imaging
- Cybersecurity Operations & Administration
- Data Analysis & Visualisation
- Information Design & Visualisation
- IT Service Operations & Management
- Lighting Technologies & Systems
- Media Production & Streaming Systems
- Multimedia Production
- Network Services Implementation & Management
- Web Application Development Framework