



**JAE CODE C52**

Diploma in  
Aerospace  
Systems &  
Management

## JAE CODE C52

# Diploma in Aerospace Systems & Management

This is for you if you are curious about aircraft and flight systems.

Be amazed by the advanced systems in a modern airplane — from cockpit avionics to in-flight entertainment. Besides learning about state-of-the-art aerospace systems, you will also study how world-class airports are run and gain valuable experience through internships at well-known aerospace companies.

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

## This diploma lets you...

- Build expertise in aerospace avionics systems with aviation management knowledge.
- Get an enhanced learning experience with our latest state-of-the-art aerospace training systems and facilities, including the Airbus and Boeing flight simulators.
- Gain internship experiences at leading aerospace and aviation companies including Airbus, Bombardier, Changi Airport Group, ST Engineering and Thales.

## Career Paths

- Air Force Engineer
- Airline Executive
- Airport Duty Terminal Manager
- Avionics Development Engineer
- Avionics System Specialist
- Avionics Test Engineer
- Avionics Workshop Engineer
- Licensed Aircraft Engineer
- Planning Executive
- Unmanned Aerial Vehicle (UAV) Application Engineer

## Course Curriculum

### YEAR 1

- Algebra
- Calculus
- Digital Electronics
- Effective Communication Skills
- Electrical Principles
- Electronic Devices & Applications
- Engineering Exploration Project
- Fundamentals of Innovation & Enterprise
- Fundamentals of Mechanics
- Internet & Web Development
- Introduction to Engineering
- Programming
- Workplace Digital Skills

### YEAR 2

- Aircraft Electrical Systems
- Aircraft Materials & Structures
- Airport Operations
- Avionics Systems Project
- Communication & Personal Branding
- Communication & Workplace Success
- Circuit Analysis
- Differential Equations & Series
- Fundamentals of Flight
- Introduction to Operations Management
- Microcontroller Applications
- Probability & Statistics
- Radio Communications

### YEAR 3

- Aero Maintenance Practices & Projects
- Aircraft Communication & Navigation Systems
- Aircraft Instrument Systems
- Aviation Management
- Human Factors

### ELECTIVE MODULES (CHOOSE ONE)

- Aerospace Supply Chain Management
- Aircraft Cabin & Information Systems
- Unmanned Aerial Systems

*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.*