



JAE CODE C41

Diploma in Engineering with Business

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This is for you if you want the best of both worlds: engineering and business operations.

Are you tech-savvy? Do you have good business acumen? This diploma marries engineering and business concepts through a wide range of subjects, such as engineering technology, business analytics and planning, and project and operations management.

You will also work with leading tech companies via internships locally and in countries like China, Korea and Japan.

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

This diploma lets you...

- Be competent and confident in both engineering and business operations sectors.
- Discover the complete product development process, from the ideation of solutions and drafting business plans to constructing prototypes.
- Embark on attachments with major financial institutions and gain overseas internship experiences at universities in Germany and Japan.

Career Paths

- Business Analyst
- Business Planning & Development Executive
- Entrepreneur
- Product Design Engineer
- Project Development Officer
- Project Engineer
- Project Financing Executive

Course Curriculum

YEAR 1

- Algebra
- Calculus
- Effective Communication Skills
- Electrical Principles
- Engineering Drawing & Modelling
- Engineering Exploration Project
- Fundamentals of Innovation & Enterprise
- Fundamentals of Mechanics
- Introduction to Engineering
- Materials Technology
- Programming
- Thermofluids
- Workplace Digital Skills

YEAR 2

- Analogue & Digital Electronics
- Business Management
- Communication & Personal Branding
- Differential Equations & Series
- Digital Marketing Principles
- Engineering Economics
- Enterprise Resource Planning
- Financial & Management Accounting
- Integrated Project — Ideation
- Integrated Project — Realisation
- Mechanical Design
- Mechanics — Dynamics
- Statistics & Data Analytics

YEAR 3

- Artificial Intelligence in Business
- Integrated Project — Entrepreneurship
- Operations Management
- Project Engineering & Management

ELECTIVE MODULES (CHOOSE TWO)

- Business Process Optimisation & Analytics
- Global Supply Chain Management
- Product Design & Evaluation
- Product Life-Cycle Management

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.