BUSINESS PROCESS & SYSTEMS ENGINEERING

Temasek Polytechnic
School of Engineering

Passionate about both business and engineering? Get the best of both worlds with this diploma!

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BUSINESS PROCESS & SYSTEMS ENGINEERING

Course Overview

As Singapore establishes itself as a world-class manufacturing and logistics hub, the demand for tech-savvy professionals with multi-disciplinary knowledge and skills is on the rise.

You will be trained in the application of both business analytics and systems engineering principles. You will learn business process improvement techniques to provide insights for future business planning and use the systems thinking approach to optimise business productivity and profits.

- The only integrated business and engineering diploma course that truly focuses on applying systems engineering principles in overcoming business challenges, while introducing you to business analytics
- Equips you with both product knowledge and business skills
- Strong focus on business process solutions to enhance productivity – which is in demand by companies today

Career Opportunities

As this course is aligned with the key pillars of Singapore's growth engine, and tuned to the business needs of companies in the industry, you will be well-equipped to excel in diverse industries such as manufacturing, logistics, healthcare, F&B and retail, or to pursue further studies in many diverse fields.

You will have excellent job opportunities as:

- Business Analysts
- Customer Relationship Executives
- Logistics and Supply Chain Executives
- Market Researchers
- Product Marketing Executives
- Productivity & Management Systems Executives
- Quality Assurance & Control Specialists

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What You'll Study

Select the Elective Cluster that brings your dream job to life!

Year 1:
- Artificial Intelligence in Engineering
- Business Fundamentals
- Circuit Analysis
- Computer Programming for Problem Solving
- Digital Fundamentals 1
- Engineering Mathematics 1
- Introduction to Processes & Systems
- Quantitative Methods

Year 2:
- Customer Relationship Management
- Data Management for Process Analytics
- Data Visualisation & Analytics
- Decision Analysis
- Manufacturing Logistics & Simulation
- Process Management Systems
- Process Optimisation & Improvement
- Project Management
- Sustainable Supply Chain Management
- Systems Modelling & Simulation

Year 3:
- Major Project

Process Analytics & Automation Elective Cluster #
- IoT Security
- Intelligent Automation

Supply Chain Management Elective Cluster #
- Distribution Centre Management
- Procurement & Materials Management

Industry Practice Elective Cluster #
- Guided Work-based Learning

University Pathway Programme (NUS / EE) ^ #
University Pathway Programme (NUS / ME) ^ #
University Pathway Programme (SUTD) ^ #

Students to choose one of these elective clusters
^ For selected students

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Diploma in Business Process & Systems Engineering

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