



School of Mechanical & Aerospace Engineering

MSc Supply Chain Engineering

Overview

The supply chain industry is one of the key sectors driving the development of Singapore as a critical hub in the global supply chains. The MSc in Supply Chain Engineering addresses the needs of both manufacturing and service sectors with an integrated and comprehensive programme in supply chain engineering functions such as inventory management, order fulfilment, procurement, distribution, warehousing, and transportation, equipping graduates with the right set of skills to manage end-to-end supply chains. The programme relies extensively on industry speakers, site visits, case studies and hands-on computer modelling and game plays to supplement in-class learning.

Who should apply

The programme caters to both full-time and part-time students who are seeking employment or advancing their career in supply chain engineering related roles that include *procurement, order fulfilment, operations planning, scheduling, distribution, inventory management*.

Previous graduates of the programme have found jobs and advanced their careers in a wide range of industry sectors including *Manufacturing, FMCG, E-commerce, Electronics, Semiconductors, Building and Construction, Pharmaceutical, Healthcare, Aerospace, Defence, Marine, Oil and Gas*.

PROGRAMME STRUCTURE

Option 1: Coursework Only (Default Option)

10 Courses

4 Core & 6 Electives

Option 2: Coursework and Dissertation

8 Courses + Dissertation

4 Core & 4 Electives

DURATION OF THE PROGRAMME

Part-Time Study

Minimum Candidature: 2 years (4 semesters)

Maximum Candidature: 4 years (8 semesters)

Full-Time Study

Minimum Candidature: 1 year (2 semesters)

Maximum Candidature: 2 years (4 semesters)

CORE COURSES

MA6701: Quantitative Methods for Operations Analysis

MA6702: Corporate Resource Planning

MA6703: Supply Chain Analysis and Design

MA6704: Management of Logistics Functions

ELECTIVE COURSES

MA6504: Management of Global Manufacturing

MA6514: Machine Learning and Data Science

MA6712: Procurement & Supplier Development

MA6715: Systems Simulation & Modeling

MA6716: Manufacturing and Service Operations
Management

MA6731: System Reliability & Risk Analysis

MA6741: Quality Engineering

MA6811: Product Design & Development

QUOTE

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The professors combine latest academic theories with their relevant industry insights, which makes the learning experience so valuable. I am looking forward to continuing my studies and I am confident that this program will boost my future career.

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Gutow Katharina Nadine
(Class of 2021)

“

MSc SCL helped my career growth by offering up-to-date content, and industry best practices... it was a great experience having challenging discussions with classmates with international background, and building network with professionals from different Industry sectors.

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Eva Fancev
(Class of 2019)

Website:



PROGRAMME DIRECTOR

Assoc Prof Rajesh Piplani

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