



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 Inventory Planning

MA6704: Management of Logistics Functions

ELECTIVE COURSES

Students are to select at least 2 electives from each basket (Analytical, Functional)

Analytical Electives (Select at least 2)

MA6514: Machine Learning and Data Science

MA6715: System Simulation & Modeling

MA6721: Data Analytics for Supply Chain Management (*tlbc*)

MA6731: System Reliability & Risk Analysis

Functional Electives (Select at least 2)

MA6712: Procurement & Supplier Development

MA6713: Advanced Topics in Supply Chain Management

MA6714: Specialised Logistics Operations

MA6716: Manufacturing and Service Operations Management

QUOTE

“

The learning experience here integrates greatly with industrial trends. I appreciated the meaningful group assignments to practise what we learn. This programme enabled my career progression and facilitated networking opportunities with classmates.

”



Chen Yanzhen

(Class of 2022)

“

My career developed after I graduated from the MSc Supply Chain programme at NTU. I love all the professors, they are very open to any questions and discussions, even outside the class. Especially if you take the dissertation option, you can explore more supply chain research and case studies. Also, with the diversity of the students, we had active discussions exchanging different points of view.

”



Dwiastuti Cahyaningrum

(Class of 2022)

Learn more



PROGRAMME DIRECTOR

Assoc Prof Rajesh Piplani

Email: mae.msc@ntu.edu.sg