

TRANSPORTATION POLICY

FREIGHT

ANALYSIS  
QUANTITATIVE  
MODELLING

TRANSPORTATION  
PLANNING

TRANSPORTATION FLOW

LOGIC DESIGN  
MARITIME

DEMAND

AIR LOGISTICS  
SUSTAINABLE  
ALGORITHMS  
OPERATIONS

TRADE

TRAFFIC MANAGEMENT

PLANNING  
ROUTING  
STRATEGY

FLEET  
COURIER  
PASSENGER  
CARGO



# BACHELOR OF SCIENCE (HONS.) IN TRANSPORTATION AND LOGISTICS

KPT REF. NUMBER: (R/840/6/0024) (08/18)

MQA REF. NUMBER: MQA/A9030

School of Business



## UNIVERSITY OF THE FUTURE



# BACHELOR OF SCIENCE (HONS.) IN TRANSPORTATION AND LOGISTICS

Malaysia's vibrant economy and fast-moving lifestyle have resulted in an increase in the demand for transportation as the country transformed from agriculture based to a trade-driven country. Central to powering the growth of this economic transformation is its trading with other nations. International trade, logistics and transportation has become a critical component of Malaysia's economic engine. The globalisation of the world economy coupled with Malaysia's increasing affluence has created excellent business opportunities in the transportation sector.

## WHAT IS IT ALL ABOUT?

The MUST academic programme equips students and offers them an opportunity to venture into the fast-growing and dynamic field of Transportation and Logistics. Students will be exposed to an array of courses which will equip them with multiple skills to handle the increasingly complex and multidisciplinary nature of transportation and logistics issues. Once in the programme, students can expect to prepare themselves to undergo rigorous training to acquire technical skills in computing, systems design, statistical modelling, economic and project evaluation in order to comprehend the problems of designing, managing and operating complicated Transportation and Logistics systems. Relevant undergraduate subjects include operations research, various types of transportation mode management, supply chain strategies and cases, transportation information technology, mathematics, transportation economics, and management. Furthermore enrolled students are required to undergo a period of industrial placement in manufacturing or logistics services industries which prepares students to perform their final year project and enhance their future employability.

## Selected Curriculum Outline

- Data Analysis and Quantitative Modeling
- Transportation Economics
- Fundamental of Operations Research
- Logistics Operations Management
- Transportation Planning



- Maritime Transportation & Logistics
- Transportation Demand Analysis
- Public Transport Management
- Air Transportation Management

- Introduction to Transportation
- Flow Systems
- Information Systems
- Transportation Policy
- Freight Transportation

- Fundamentals of Sustainable Transportation
- Elementary Algorithms for Transportation and Logistics
- International Trade & Logistics





## Programme Duration

Full-time: 3 Years (6 Semesters)

## Careers, Industry & Pathway

- Transportation Planning & Management
- Transportation Policy Analysis
- Traffic Management
- Vehicle Routing & Scheduling
- Fleet Management
- Public Transportation Planning
- Logistics Management/Strategy
- Inventory Management

## Entry Requirements

Malaysian Citizens

- Passed Sijil Tinggi Pelajaran Malaysia (STPM) or A-Level with full credits in three subjects including Mathematics; or
- Passed Matriculation programme from recognised university; or
- Passed Matriculation from any institution within or outside Malaysia which is accredited and recognised by Malaysian government; or
- Passed Diploma programme in related field or equivalent; or
- Polytechnic Diploma in related field or equivalent; or
- Passed MUST Foundation Programme or Foundation programmes with minimum CGPA 2.0; or
- Any other equivalent qualifications recognised by the Malaysian Government; and
- Have taken the Malaysian University of English Test (MUET)

Non-Malaysian Citizens

- Passed Australian Matriculation (AUSMAT); or
- Passed in any related programme from a universities or higher learning institutions recognised by the Malaysian Government; or
- Passed MUST Foundation Programme with minimum CGPA 2.0; or
- Any other equivalent qualifications recognised by the Malaysian Government.
- Have taken the Malaysian University of English Test (MUET) with a band score of 4; or
- Language Proficiency – Applicants will be required to provide documentary evidence of proficiency in English in one of the following examinations:
  - Test of English as a Foreign Language (TOEFL) at a score of 450 or higher is required; or
  - International English Language Testing Services (IELTS), a minimum band 4; or
  - Pass the MUST English Placement Test with at least a 75% grade and an interview with MUST to review their proficiency level.

*(Note: IELTS and TOEFL test results must be less than two years old and all IELTS must be the academic version of the test)*







GPS: 3.154176, 101.596092

Search Maps : Malaysia University of Science and Technology (MUST)



In 1995, the then Prime Minister, Tun Dr. Mahathir Mohammad and a delegation from Malaysia made a working visit to Massachusetts Institute of Technology (MIT) and endorsed the establishment of university modelled after MIT. An agreement was signed in January 1997 to establish the Malaysia University of Science and Technology (MUST).

In its formative years, MUST was fully assisted and supported by MIT, a world-renowned university noted for its education and research in advanced science and technology.

MUST emulated MIT's method of teaching and learning which encourages creativity, analytical thinking, problem-solving, innovation and team-building. These are qualities that have been proven to be successful in producing entrepreneurial leadership in science, technology, business and management.

MUST also nurtures a research-driven culture in all fields of expertise to ensure depth of understanding and confidence in facing practical problem. The MIT model has been the impetus of the MUST culture that is vibrant, innovative and purposive to our local environment.



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