

**Razak Faculty of Technology** and Informatics

# **Master of Science** (Sustainable Infrastructure)

MQA/PSA 11112

### **"FUTURE NATION DEVELOPMENT TOWARDS GREEN** AND SMART INFRASTRUCTURE"

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Level 7, Menara Razak, Universiti Teknologi Malaysia, Kuala Lumpur, MALAYSIA

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#### **PROGRAMME OVERVIEW**

### Master of Science (Sustainable Infrastructure)

programme is specially designed to ensure that graduates and professionals are kept up-to-date with the current development of sustainable infrastructure in enhancing knowledge and skills in their career. This programme is an application and industrial-driven, where students can directly add value to their employers and industry in general via lecturer delivered by experienced industrial speakers in the area of sustainable infrastructure throughout the modules. This programme aims to prepare professionals in the engineering, science and technology-based organizations working for the transition into senior executive positions or senior engineering management roles towards the preparation of life-long learning

#### ENTRY REQUIREMENTS

A Bachelor's Degree with good honours from Universiti Teknologi Malaysia or any other institution of higher learning recognised by the Senate; OR

A qualification equivalent to a Bachelor's Degree and experience in the relevant field recognised by the Senate.

Additional requirement for International Applicant An English Certificate of IELTS with the minimum band of 6.0 OR TOEFL with the minimum score of 550

#### **CORE COURSES**

- Sustainable Building Technology
- Sustainable Infrastructure in Practice
- Sustainable Water and Energy Saving
- Sustainable Transportation, Road and Bridge
- Sustainable Infrastructure Policy and Legislation
- Services and Maintenance of Infrastructure Assets
- Research Methodology
- 1 University General Course

#### ELECTIVE COURSES

- Urban Studies
- Contextual Leadership
- Human Asset Management
- Soil and Slope Sustainability
- Waste Management and Recycling
- Coastal Infrastructure Maintenance
- Sustainable Design and Construction
- Conservation and Urban Regeneration
- Engineering Stakeholder Management
- Service Life Planning and Asset Management
- Sustainable Development and Environmental Engineering

#### **MASTER PROJECT**

- Master Project 1
- Master Project 2

#### **CAREER OPPORTUNITIES**

- Architect
- Surveyor
- Facility Engineer
- Project Manager
- Infrastructure Contractor
- Infrastructure Developer
- Civil and Structural Engineer



## " Is very beneficial..! "

The program was well rounded, including both management aspects and technical aspect. It instilled in me the drive to always learn and evolve, which is very beneficial in my current technical team lead role. Overall the facilities, general administration including class and exam scheduling was good for a weekend students like me. Lecturers where excellent, they focused on imparting knowledge. They encouraged us to learn rather than focusing on achieving a grade or KPI.

#### MASLAILY AHMAD FAUZI

Ports and Maritime Engineer Jacobs

COURSEWORK (46 CR)

Intake: February and September



Package 1: Weekdays Class 1.5 years (3 semesters)-4 years (8 semesters) Package 2: Weekend Class 2 years (4 semesters)- 4 years (8 semesters)