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**CREATING FUTURE  
IN FORENSIC FOR BETTER  
INFRASTRUCTURE SYSTEM**

## Entry Requirements

- Bachelor's degree in Civil Engineering/ Civil Engineering Technology or related field with at least a CGPA of 2.50 from UiTM or from other higher education institutions recognized by Malaysia Government; OR
- Bachelor's degree in Civil Engineering/ Civil Engineering Technology or related field with at least CGPA 2.00 from UiTM or from other higher education institutions recognized by Malaysia Government with a rigorous internal evaluation process and having working experience; OR
- Admission to APEL T-7 with at least 10 years of working experience in related field.
- International students must meet English language competency requirements. IELTS Band 5.0, TOEFL 500, MUET Band 3.0



## **CEEC708 MASTER OF SCIENCE IN FORENSIC INFRASTRUCTURE ENGINEERING**

**CIVIL ENGINEERING STUDIES,  
COLLEGE OF ENGINEERING,  
UNIVERSITI TEKNOLOGI MARA,  
CAWANGAN PULAU PINANG**

**MQF: LEVEL 7**

Master of Science in Forensic Infrastructure Engineering focuses on the knowledge enhancement towards the understanding of structure and infrastructure failures. This programme aims to nurture a competent engineer equipped with the knowledge in forensic engineering. Thus, the comprehensive curriculum is designed by combining fundamental and advanced knowledge needed by forensic engineer in civil engineering field including technological advancement and the use of computer software.

Additional information about this programme:

- Inclusion of advanced technology in forensic engineering work.
- Law and ethics towards related professional judgement in forensic issues.
- Problem solving techniques in forensic engineering.
- Digital skills in teaching and learning.

## Duration of Study

Method	Minimum Duration	Maximum Duration
Full Time	1.5 years (3 semesters)	3 years (6 semesters)
Part Time	2.5 years (5 semesters)	5 years (10 semesters)

**Credit Hours : 40 Credit**  
**Study Mode : Coursework**  
**Delivery method : Blended learning**  
**Class : Evening (Weekdays)**

### 1st Semester (15 credit hours)

Faculty Core:

- Research Methodology
- Occupational Safety and Health Management

Program Core:

- Introduction to Forensic Infrastructure Engineering
- Risk Analysis and Management
- Geomechanics of Infrastructure Failures

### 2nd Semester (13 credit hours)

Faculty Core:

- Master Project 1

Program Core:

- Infrastructural Damage Assessment
- Infrastructure Disaster Management
- Infrastructure Sustainability

### 3rd Semester (12 credit hours)

Faculty Core:

- Master Project II

Elective: Choose 2

- Structural Strengthening, Retrofitting and Rehabilitation
- Earthquake Engineering
- Fracture Mechanics and Fractography
- Corrosion Engineering and Control in Infrastructure Project
- Road Safety and Rehabilitation
- Environmental Geotechnics
- Numerical Analysis in Geotechnical Engineering
- Forensic Hydrology
- Environmental Forensics
- Advanced Analysis in GIS

Total tuition fees for 3 semester of study:

Students	Fees
Local	RM 18,218
International	RM 39,830

## Who should join us?

**Freshgraduates**

**Civil & Structural Engineer**

**Project Manager**

**Geologist**

**Geotechnical Engineer**

**Oil & Gas Engineer**

**Infrastructure Engineer**

**Facility Manager**

**Facility Engineer**

**Any Personnel related to civil, structural and forensic works**