

## FMT309e Building Diagnostics

**Level:** 3

**Credit Units:** 5 Credit Units

**Language:** ENGLISH

**Presentation Pattern:** EVERY JAN

**E-Learning:** BLENDED - Learning is done MAINLY online using interactive study materials in Canvas. Students receive guidance and support from online instructors via discussion forums and emails. This is supplemented with SOME face-to-face sessions. If the course has an exam component, this will be administered on-campus.

### Synopsis:

FMT309 Building Diagnostics will provide students an insight on the building defects commonly found in buildings in this course. These include structural and architectural defects, building envelope and waterproofing. This course will also cover defects and recommend solutions for repair, replacement and improvements.

### Topics:

- Introduction to Building Maintenance
- Causes of Common Structural and Architectural Defects in Building
- Building Envelope
- Cladding
- Roof
- Waterproofing
- Structural Appraisal
- Architectural Appraisal
- Investigation
- Diagnosis of Defects
- Defects Rectification Strategies
- Solutions for Repair, Replacement and Improvements

### Learning Outcome:

- Interpret the diagnosis of defects
- Discuss causes of common defects in buildings
- Recommend solutions for repair, replacement and improvements
- Design remedial solutions
- Examine buildings, organize and conduct defect diagnosis
- Formulate defect rectification strategies

### Assessment Strategies:

Continuous Assessment Component	Weightage (%)
PRE-CLASS QUIZ	2
PRE-CLASS QUIZ	2
PRE-CLASS QUIZ	2
TUTOR-MARKED ASSIGNMENT	10

TUTOR-MARKED ASSIGNMENT	14
<b>Sub-Total</b>	<b>30</b>

<b>Examinable Component</b>	<b>Weightage (%)</b>
Written Exam	70
<b>Sub-Total</b>	<b>70</b>

**Weightage Total** **100**