

FMT309 Building Diagnostics

Level: 3

Credit Units: 5 Credit Units

Language: ENGLISH

Presentation Pattern: EVERY JAN

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

Textbooks:

James Douglas and Bill Ransom: Understanding Building Failures (e-textbook)
ISBN-13: 9781136448782

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 (Evening Class):

Components	Description	Weightage Allocation (%)
Overall Continuous Assessment	PRE-CLASS QUIZ 1	2
	PRE-CLASS QUIZ 2	2
	PRE-CLASS QUIZ 3	2
	TUTOR-MARKED ASSIGNMENT 1	20
	TUTOR-MARKED ASSIGNMENT 2	24
Overall Examinable Components	Written Exam	50
Total		100