

## LECTURE #1

### Lecture #1: Introduction to Experimental Methods in Structural Engineering

Introduction of course contents and administrative issues:

- 1) Introduction of basic subjects
- 2) Introduction to topics
- 3) Introduction to resources available and required for the course
- 4) Introduction of class policies and requirements
- 5) Grading
- 6) Visit of facilities virtual and physical
- 7) [Safety instruction](#) – lab visit component

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Topics covered:

Importance of Experimental Methods

Backbone to Modern Applied Science and Engineering

Basic Skills as an Engineer

Necessary Measures as a Researcher

Overview of this Course

Objectives

Methods for how to learn this Course

Philosophy of Measurement & Experimental Testing

Theory vs. Practice

Quality vs. Quantity

Concept of Convolution and Filtering

Details and Generality

Testing,; Verification vs. Discovery

Notes:

References

Office Hours

Homework, Exam and Projects, Grading Policy

Safety rules and duties of experimentalist

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