

# ENGINEERING 101

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Course Overview

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# What Can you Expect in this Course

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- ❑ We get to know each other.
- ❑ You will be divided into groups of 6 students.
- ❑ Each group will be divided into sub-groups of 3 students.
- ❑ Project ONE will be performed by groups of three.
- ❑ Project TWO will be performed by groups of six.

# What Can you Expect in this Course

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- ❑ Homework is performed on an individual basis unless instructed otherwise.
- ❑ Class exercises will be performed in sub-groups.
- ❑ I will lecture on several chapters from your text book.

# What Can you Expect in this Course

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- ❑ You will read some of the chapters on your own and you will be given homework on those chapters.
- ❑ Most of the materials in the text book will be indirectly covered through the two major projects.
- ❑ Project ONE deals with engineering data analysis.

# What Can you Expect in this Course

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- ❑ Project ONE deals with engineering data analysis.
- ❑ This is an important project through which you become an Excel power user.
- ❑ You will learn many basic and several advance data analysis technique performed in Excel.
- ❑ You will be exposed to VISUAL BASIC.

# What Can you Expect in this Course

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- ❑ Deliverables for Project ONE:
  - ❑ Several Class Exercises
  - ❑ Group Technical Report
  - ❑ Group Technical Presentation

# What Can you Expect in this Course

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- ❑ Project TWO is a design project.
- ❑ Project TWO will be performed in groups of six students.
- ❑ Teamwork and iterative design process will be the main theme of project TWO.

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# What Can you Expect in this Course

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- ❑ Deliverables for Project TWO:
  - ❑ Two competitions
    - ❑ Preliminary stage competition
    - ❑ Final competition
  - ❑ Group Technical Report
  - ❑ Group Technical Presentation