

# Electric Power Distribution Systems II



**EME410**

*Spring 21-22*

**Lecture 1**

## **Introduction**



**INSTRUCTOR**

**DR / AYMAN SOLIMAN**

## ➤ Contents

- 1) Course Contents.
- 2) Grading System & distribution.
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# 1) Course Contents.

- Introduction
- Voltage Drop Calculation.
- Short Circuit Calculation.
- ETAP Program.
- power factor Correction
- Transformer sizing and Selection, Generator Sizing, Distributor, U.P.S types / selection.
- Low / Medium voltage distribution systems:(A.C., and D.C. systems, Ring main unit (R.M.U).



# 1) Course Contents.

- Medium voltage panels design, types.
- Medium voltage cables design, types.
- Bus bar selection / design.
- Medium /Low voltage panels component design.
- Earthing system for lightning.
- **Revit Program**



## 2) Grading System & distribution.



**Total score (100%)**

**Midterm 1**  
**8<sup>th</sup> week**  
**(30%)**

**Midterm 2**  
**12<sup>nd</sup> week**  
**(20%)**

**Lec. & Sec**  
**(10%)**

**Final exam**  
**(40%)**

### 3) Course Information.

**Lecture:** Thursday (12:20 - 13:55 PM)

**Office Hours:** Saturday, Tuesday, Thursday.

#### **References:**

- Lectures.
- IEC – ANSI/IEEE Standards.
- Egyptian Code.

#### **Instructor:**

**Dr. Ayman Soliman**

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#### **TAs:**

**Eng. Fekry Awad**

## 4) Course Policy.

- Be **on time** and cell phones should be silent or off during the lecture.
- Any forms of **cheating or plagiarism** will result in a **Zero grade** for the required task, report or exam (No discussion nor excuses).
- Students are expected to **respect** Instructors, TAs, and their colleagues.
- Your grades is based on **merit only** nothing else.



Thank

you

