

# EEE 104\_Syllabus

Spring 2021

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Lecture: Thursdays 14:00-16:50

Reference Texts: 1) Foundations of Engineering, Holtzapple, Reece, McGraw Hill, 2<sup>nd</sup> ed.

2) ABC of Engineering,...

3)

## Tentative Course Outline

Week	Topic	Homework
1	EE104 Course Content and Objectives. What is electrical engineering? Fundamentals of Electricity	
2	History. Milestones in EE. Fundamental of Magnetism	
3	Activity Areas of Ostim Clusters related to EE. Conductors, Semiconductors and Insulators.	
4	Undergraduate curriculum in the Department. Electromagnetic Radiation	
5	Engineering ethics: (Guest Lecturer)	Assignment of student presentations
6	Electrical Safety, Circuit Analysis, Circuit Components	
7	Introduction to MATLAB: Syntax, basic commands, user interface, scripts, functions.	
8	Introduction to MATLAB: Logic/flow control, avoiding for loops, plotting and graphics in MATLAB.	
9	EEE roles in industry series (Guest Lecturer)	HW due: Basics of MATLAB
10	Electronic Circuit Construction	HW due: Algebra with MATLAB
11	Student Presentations	
12	Student Presentations	
13	Student Presentations	
14	Review & Open Discussion	

**Attendance** : At most 4 lectures may be missed not to fail.

## Grading:

**Attendance:** %5

**Presentation:** %25 Theory + %25 Implementation

**Final:** %45