

EEE 351 ENGINEERING ELECTROMAGNETICS
Spring 2010 SYLLABUS

Textbook:

D. K. Cheng, Fundamentals of Engineering Electromagnetics, Addison Wesley, NY, 1993.

References:

D. K. Cheng, Field and Wave Electromagnetics, 2nd edition, Addison Wesley, NY, 1983.

U. S. Inan, A. S. Inan, Engineering Electromagnetics, Addison Wesley, 1999.

J. D. Kraus, Electromagnetics, McGraw-Hill, 1984.

U. S. Inan, A. S. Inan, Electromagnetics Waves, Prentice-Hall, 2000.

Instructors:

Section-1: Mehmet ÇIYDEM; Section-2: Ayhan ALTINTAŞ

Teaching Assistants: Can Uran, Onur Akın

Schedule:

Section-1&2: Wednesday 08:30-10:30 , Friday: 10:30-12:30

Web Page: <http://www.ee.bilkent.edu.tr/~eee351>

Goal:

To introduce fundamentals of Electrostatics, Magnetostatics, and time-harmonic Electromagnetics.

Prerequisite background: Vector calculus, complex numbers, and differential equations

Course Topics:

1. Vector Analysis
2. Static Electric Fields
3. Steady Electric Currents
4. Static Magnetic Fields
5. Time-Varying Fields and Maxwell's equations
6. Brief introduction to Plane Electromagnetic Waves

Grading Policy (tentative):

Quizzes (55%) , Final (40%)

Attendance (5%, ON-OFF with treshold of 75% attendace)

Note: Approximately 9-10 quizzes shall be held during the semester. Quizzes shall be partly from last years' homeworks whose solutions are also avalibale at course website.