

**EEE 351 ENGINEERING ELECTROMAGNETICS**  
**Fall 2009**

**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: Ayhan ALTINTAŞ

Section-2: Mehmet ÇİYDEM

Section-3: Levent GÜREL

**Teaching Assistants:**

Rohat Melik, Hatice Ertuğrul, Damla Ateş

**Time/Place:**

**Section-1:** Monday: 08:30-10:30 EE05, Wednesday: 10:30-12:30 EE05

**Section-2:** Monday: 13:30-15:30 EE05, Wednesday: 15:30-17:30 EE05

**Section-3:** Monday: 10:30-12:30 EE05, Thursday: 08:30-10:30 EE05

**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 (60%)
- Final (35%)
- Attendance (5%, ON-OFF with threshold of 75% attendance)

Note: Approximately 10 quizzes (almost each week) shall be held during the semester. Quizzes shall be partly form last years' homeworks whose solutions are also available at course website.