



EELE 3332 - Electromagnetics II
Course Syllabus

Instructor	Dr. Hala J. El-Khozondar Office: N519 Tel.: 2860700 Ext.: 1014 E-mail: hkhonzondar@iugaza.edu Homepage: http://site.iugaza.edu.ps/hkhonzondar/
Course Description	Vector algebra, coordinate system and transformation, vector calculus, electrostatic fields, electric fields in material space, electrostatic boundary-value problems, magnetostatic fields, and magnetic forces, materials and devices
Prerequisite:	Electromagnetics I-EELE 3331
Textbook	Matthew Sadiku "Elements of Electromagnetics", 4ed, 2007
References	<ul style="list-style-type: none">▪ William H. Hayt , "Engineering Electromagnetics", 5th ed., 1989▪ Bhag Singh Guru, Hüseyin R. Hiziroglu, " Electromagnetic Field Theory Fundamentals", 2004.▪ Jack VanderLinde, "Classical Electromagnetic Theory (Fundamental Theories of Physics)", 2005
Topics	Maxwell's Equations, Electromagnetic Wave Propagation, Transmission Lines, Waveguides, Antennas Chapters 9-13
Course objectives	<ol style="list-style-type: none">1. Understand fundamentals of Electromagnetic fields2. Understand Maxwell's equations.3. Understand wave propagation in free space and in different materials.4. Understand theory of transmission lines.5. Study some impedance matching techniques.6. Understand waveguide theory.7. Understand principles of Antenna.

Course intended learning outcomes	<ol style="list-style-type: none">1. To derive wave function in free space and in different materials.2. To find the parameters of transmission lines.3. To develop simple Antenna.
Assessment	Midterm Exam (35%) Assignments (10%) Quizzes (10%) Final Exam (45%)
Homework Policy	Homework assignments will be given in a regular basis. Each assignment is to be returned within one week. <i>No delay will be accepted except with good excuse.</i>
Office Hours	As posted on the office door, or by appointment.