ENEE 380	Course Outline	Spring 2004
Торіс	Textbook Sections	Lectures
Electromagnetic Model Introduction SI units	1.1, 1.2 1.3	1
Static Electric Field Coulomb's Law Guass' Law Electric Potential Conductors, Dielectrics Boundary conditions Capacitors Energy	3.3-3.3 3.4 3.5 3.7, 3.7 3.9 3.10 3.11	7
	Exam 1:(Frida	y, March 5)
Solution of Electrostatic Pr Poisson and Laplace Equation Uniqueness of solution Method of images Boundary value problems		5
Steady Currents Current density and Ohm's lat Electromotive force Continuity of current Power dissipation Resistance	w 5.1, 5.2 5.3 5.4 5.5 5.6, 5.7	3
	Exam 2:(Frida	y, April 16)
Static Magnetic Fields Magnetostatics postulates Vector magnetic Potential Biot-Savart law Magnetization and permeabili Magnetic circuits Inductors	6.1, 6.2 6.3 6.4 ty 6.5-6.7 6.8-6.10 6.11	5
Time Varying EM fields Magnetic induction Displacement current Maxwell's equations Boundary conditions Time harmonic fields Summary	7.1,7.2 7.3 7.3 7.5 7.7	4