MARMARA UNIVERSITY FACULTY OF ENGINEERING

PHYS 102

PHYSICS 102 Spring Semester 2004-2005 COURSE DESCRIPTION

Institute/Department: Faculty of Engineering, Computer Eng. & Mech. Eng. & Environmental Eng.

Course Code : Phys 102

Course Title : Physics 102

Status of the Course : Compulsory

Number of Credits : (4+0)

Course Type : Lecture

Course Language : English

Lecturer : Assist. Prof. Dr. Fatih DUMLUDAĞ (Office: Faculty of Science and Arts,

Dept. of Physics, C107)

Office Hours: Monday 11:00-12:00, Wednesday 15:00-16:00, Outside office hours, by

appointment via e-mail

Class Hours and Locations:

Comp. & Mech. Eng.; Monday 09:00-10:50, Room 244; Wednesday 11:00-12:50, Room 242 Environmental Eng.; Monday 15:00-16:50, Room 345; Wednesday 09:00-10:50, Room 345

WEB Site : http://www.geocities.com/fatihdumludag

Tel : 0.216.348 5938 (Office: 1312, Microsensor Laboratory: 1251)

Objectives of the Course are twofold: to provide the stu and principles of physics, and through a broad range of interplaced objectives, emphasis is placed of to motivate the student through other diciplines.	dent with a clear and logi to strengthen an underst resting applications to th n sound physical argument	ical presentation of tanding of the co ne real world. In ts. At the same til	of the basic concepts ncepts and principles order to meet these me, I have attemptec
Capacitance and Dielectrics, Cu		rect Current Circ	uits, Magnetic Fields
Sources of the Magnetic Fie Electromagnetic Waves.	ld, Faraday's Law, Indu	ctance, Alternati	ng Current Circuits

<u>Teaching Method</u>: Lectures supported by applications.

Assessment Details :

Assessment&Examination Method

- i) 1 Midterm (60 Pts), Short Quizzes (2) (2x20 pts)(some will be unannounced)
- ii) Final

Result= [0,6*(Quiz+Mid-term)]+[0,4*Final Exam]

Text Book :

- 1. Fundementals of Physics, D. Halliday/R. Resnick/J. Walker, John Wiley &Sons, Inc., Sixth edition, 2001
- 2. Physics for scientist and engineers with modern physics, Raymond A. Serway, Saunders College Publishing, 1990