Syllabus

Instructor	Year	Semester	Course Number	Course Title	Section
Jeen, Hyoung Jeen	2014	Fall	PH22517	ELECTRICITY AND MAGNETISM(I)	

Instructor's contact information : hjeen@pusan.ac.kr
Office Hours : MW 15:20 ~ 14:20

1. Course Objectives & Description

1) Course objectives

Prerequisites of Electricity and magnetism (I) are Physics for physicsists and calculus. Base on those knowledge, we will learn concepts and details of electrostatics and magnetostatics.

2) Course Description

The class consists of two lecutres per week. Official language of this class is Korean. We will start to review basics of calculus, and then move onto electrostatics and magnetostatics. At the end of each chapter, homeworks will be given.

Students with disabilities should contact the Center for Students with Disabilities (http://sedu-support.pusan.ac.kr/main/index.asp) for lectures.

2. Required Textbooks

Introduction to Electrodynamics (Fourth edition)- David J. Griffiths (Pearson)

3. Requirements & Grading

- ✓ Grading will be based on Midterm (50% for two exams), Final(25%), Attendance (5%), Homework and Attitude toward class (20%).
- ✓ Based on academic policy, **A** grade and above can be given up to 30% of whole class, **B** grade and above can be given up to 70%. In addition, if you miss more than 1/3 of entire lectures, F grade will be given.
- ✓ Students with disability can request extension of exam time and/or help in case they need assistances in writing in both with penciles and computers.

4. Schedule

Week No.	Topics and Activities	Assignments & Other Instructions
Week 1	Vector analysis	Assignment will be given at the end of each chapter
Week 2	Vector analysis	
Week 3	Electrostatics	
Week 4	Electrostatics	
Week 5	Review / Midterm 1	
Week 6	Potentials	
Week 7	Potentials	
Week 8	Potentials / Electric fields in matter	
Week 9	Electric fields in matter	
Week 10	Electric fields in matter / Review	
Week 11	Midterm 2 / Magnetostatics	
Week 12	Magnetostatics	
Week 13	Magnetostatics	
Week 14	Magnetic fields in matter	
Week 15	Magnetic fields in matter	
Week 16	Review / Final	

5. References

Electromagnetic Fields - R. K. Wangsness (Wiley)