



HANYANG UNIVERSITY

Hanyang International Summer School

Faculty Information	Name	So-Yeon Baek					
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	Homepage	NA					
Course Information	Class No.	18077	Course Code	ISS1173	Credits	3	
	Course Name	General Physics 2					
	Lecture Schedule	Mon-Thu /16:00~19:00					
	Course Description	General physics 2 is the second part of a two-semester calculus-based introductory physics course for science and engineering majors. This course will cover physics related to electricity, magnetism, such as Coulomb's law, Gauss' law, electric field and potential, circuits, magnetic field, induction, Maxwell's equations, electromagnetic waves and lights.					
	Course Objective	In this course, students will learn how to express the phenomena observed in nature. The purpose of this lecture is to let students understand basis of the physical properties of electric and magnetic fields created by static charge and current distributions.					
	Prerequisite	General Physics1 preferred, but not mandatory.					
	Materials/Textbooks	Principles of Physics(11th Edition), written by Halliday, David Lecture notes will be given in the HY LMS-in site prior to class.					
Evaluation	Attendance	10%	Quiz	%			
	Assignment	20%	Mid-term Exam	30%			
	Presentation	%	Final Exam	30%			
	Group Project	%	Participation	10%			
	Etc.	Evaluation Item			Ratio		
					%		
Daily Lecture Plan	Week 1	Day 1	Opening Ceremony				
		Day 2	Introduction to the Physics. CH.21. Coulomb's Law				
		Day 3	CH.22 Electric Fields				
		Day 4	CH.23 Gauss' Law				
	Week 2	Day 1	CH.24 Electric Potential				
		Day 2	CH.25 Capacitance				
		Day 3	CH.26 Current and Resistance CH.27 Circuits (single-loop)				
		Day 4	Mid-term Exam				



	Week 3	Day 1	CH.27 Circuits : Problems and Solutions on Electric Circuits
		Day 2	CH.28 Magnetic Fields
		Day 3	CH.29 Magnetic Fields due to Currents
		Day 4	CH.30 Induction
	Week 4	Day 1	CH.30 Inductance
		Day 2	CH.32 Maxwell's Equations
		Day 3	CH.33 Electromagnetic Waves
		Day 4	Final Exam