



# HANYANG UNIVERSITY

## Hanyang International Summer School

Faculty Information	Name	YeoWoong, Yoon					
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	Home University	Hanyang Univ. ERICA					
	Department	College of Science and Convergence Technology,					
	Homepage						
Course Information	Class No.	18076	Course Code	ISS1172	Credits	3	
	Course Name	General Physics 1					
	Lecture Schedule	Mon-Thu /13:00~16:00					
	Course Description	We study general physics which is essential for majoring in natural science and engineering. We cover first part of general physics including, Newton's mechanics and Fluid mechanics and waves.					
	Course Objective	We understand physics law regarding the motion of objects with respect to Newtons mechanics and energy. We learn how to describe many physical phenomena around us in a mathematical way and how to apply physics laws to them.					
	Prerequisite	- High school level Calculus					
	Materials/Textbooks	Halliday and Resnick's Principles of Physics, 11th edition					
Evaluation	Attendance	10%	Quiz	%			
	Assignment	20%	Mid-term Exam	30%			
	Presentation	%	Final Exam	40%			
	Group Project	%	Participation	%			
	Etc.	Evaluation Item			Ratio		
					%		
Daily Lecture Plan	Week 1	Day 1	Opening Ceremony				
		Day 2	Chap1. Measurement, Chap2. Motion Along a Straight Line				
		Day 3	Chap3. Vector, Chap4. Motion in Two and Three Dimensions				
		Day 4	Chap5. Force and Motion I				
	Week 2	Day 1	Chap6. Force and Motion II				
		Day 2	Chap7. Kinetic Energy and Work				
		Day 3	Chap8. Potential Energy and Conservation of Energy				
		Day 4	Midterm Exam				



	<b>Week 3</b>	Day 1	Chap9. Center of Mass and Linear Momentum
		Day 2	Chap10. Rotation
		Day 3	Chap11. Rolling, Torque, and Angular Momentum, Chap12. Equilibrium and Elasticity
		Day 4	Chap13. Gravitation
	<b>Week 4</b>	Day 1	Chap14. Fluids
		Day 2	Chap15. Oscillations
		Day 3	Chap16. 17. Waves
		Day 4	Final Exam