

Classification	GIST College	Course No.	PS2101	Hrs:E:Credits	3/1/3	Instructor	Chanyong Park	Lecture Language	English
Course Title	Korea	고전역학 및 연습 I							
	English	Classical Mechanics and Recitation I							
Course Outline	This is the first half of the one-year standard course on undergraduate classical mechanics for students who have taken General Physics I,II. Major topics to be discussed are : Vectors, Newton's laws of motion, conservative force and potential energy, simple harmonic motion, Lagrangian mechanics, two-body problem, gravitation and mechanics in non-inertial frames.								
Prerequisite	OR GS1102 (일반물리학 및 연습 II), OR GS1104 (고급일반물리학 및 연습 II)								
Textbook & References	"Classical Dynamics of particles and systems", Thornton Marion								
Etcetera									
Weekly Course Schedule									
Week	Description								Remarks
1st	Review of Newtonian Mechanics								
2nd	Vector algebra								
3rd	Application of Newtonian mechanics								
4th	Momentum and angular momentum								
5th	Conservation of energy								
6th	Potential energy								
7th	Midterm								
8th	Harmonic oscillator								
9th	Damped oscillator								
10th	Lagrangian mechanics - I								
11th	Lagrangian mechanics - II								
12th	Two body problem								
13th	Central force and gravitation								
14th	Mechanics of non-inertial frames - I								
15th	Mechanics of non-inertial frames - II								
16th	Final Exam								

***If there will be experiments, mark it in the "Remarks" section.**