

2017 Fall Semester 物理(一) Physics (I) course syllabus

Course Name : (Chinese)物理(一)		Dept. of course offering	Physical section			
(English)Physics (I)		Permanent course No.	DEP1111			
Instructor : 許世英						
Credits	4	Required/Elective:Required	Required	Grade	*	
Prerequisite :						
高中物理 與 高中數學						
Course descriptions and objectives :						
Two main objectives:						
1. To provide student with a clear and logical presentation of the basic concepts and principles of physics.						
2. To strength an understanding of the concepts and principles through a broad range of interesting applications to the real world.						
Textbooks: (Please indicate the book's name, author, publisher and the publication date)	Physics for Scientists and Engineers with Modern Physics Serway and JEWETT Ninth Edition Cengage Learning 2016					
Course Contents			Hours			Notes
Topics	Outlines	lectures	Demonstration	Practice	Others	
Motions	(1) 1D, 2D, and 3D motions (2) Newton's Laws of Motion (3) Applications of Newton's Laws of Motion					
Energy and Momentum	(1) Energy of a system (2) Conservation of Energy (3) Many particle systems (4) Linear Momentum and Collisions					
Rotations	(1) Kinematics and Dynamics (2) Angular momentum (3) A conservation approach					
Mechanics of Complex systems	(1) Static equilibrium (2) Oscillations (3) Traveling Waves (4) Superposition and Standing Waves					
Description of Course Details :						
1.Homework and Assignments, Exams and Quizzes, Evaluation and Grading Policy						
作業部份 :						
每一~二章有一份作業						

考試部份：
二次課堂上小考
期中考一次
期末考一次

評量部份：
小考 30%
期中考 35%
期末考 35%
作業與演算課 ~10%

2. Pedagogy and other supplementary information (websites, TAs, handouts and/or databases)
以投影片與板書相輔教學

Office hours	Time slot	Location	Contact information
	原則上隨時歡迎來討論 固定的時段則等開學後公告	SC404 室	syhsu@cc.nctu.edu.tw 分機：56164

Syllabus

Week	Date	Course Progress, Contents, Topics