

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 : 陳煜璋						
Credits	4	Required/Elective:Required	Required	Grade	*	
Prerequisite :						
同學請加選 0513 習題課						
Course descriptions and objectives :						
Course Objective : This introductory physics course has two objects: 1) to provide the student the basic concepts and principles of physics; 2) to strengthen an understanding of the concepts and principles through a broad range of interesting applications to the real world. We attempt to motivate the student through practical examples that demonstrate the role of physics in other disciplines, including engineering, chemistry···,etc.						
Textbooks: (Please indicate the book' s name, author, publisher and the publication date)	Required Book(s) : Physics for Scientists and Engineers with Modern Physics (9th edition) by R. A. Serway and J. W. Jewett, Jr.					
Course Contents		Hours				Notes
Topics	Outlines	lectures	Demonstration	Practice	Others	
Description of Course Details :						
1.Homework and Assignments, Exams and Quizzes, Evaluation and Grading Policy						
Homework+Quiz: around 25%						
(習題每題 10 分每次權重 1% ; 小考滿分 100 分每次權重 1%)						
Midterm I: around 25% (滿分 105~115;權重 25%)						
Midterm II: around 25%(滿分 105~115 權重 25%)						
Final: around 25% (滿分 105~115;權重 25%)						
2.Pedagogy and other supplementary information (websites, TAs, handouts and/or databases)						
選修本課者請選修 0543 習題課						
Office hours	Time slot		Location	Contact information		
	M:9~10AM T:9~101AM		SC403	Email:yuchangchenmail.nctu.edu.tw		
Syllabus						
Week	Date	Course Progress, Contents, Topics				
1	09/14;9/17	Chap1:HW: 12, 14, 50, 67, 68				
2	09/21;09/24	Chap2:HW: 38, 57, 62, 75, 82 Chap3:HW: 26, 45, 48, 55, 62				
3	09/28;10/01	09/28(中秋節)				

		Chap4:HW: 25, 40, 70, 84, 86
4	10/05;10/8	Chap5:HW: 46,70, 85, 88, 89 Chap6:HW: 10, 21, 44, 63, 66
5	10/12; 10/15	Chap7:HW: 25, 45, 54, 62, 67
6	10/19;10/22	Chap8:HW: 15, 22, 57, 68, 79
7	10/26;10/29	Chap9: HW: 20, 30, 89, 90, 96
8	11/02;11/05	Chap10: HW: 46, 50, 82, 91, 94
9	11/09;11/12	Chap11:HW:16,30,44,52,61,63 Mditerm I (11/12)
10	11/16;11/19	Chap12:HW: 15, 23, 51, 59, 68
11	11/23;11/26	Chap13:HW:5,27,31,40,53
12	11/30;12/03	Chap14:HW: 26, 42, 53, 55, 87 Chap15:HW: 40, 69, 72, 84, 89
13	12/07;12/10	Chap16:HW: 24, 39, 61, 64, 66 Mdiderm II
14	12/14;12/17	Chap17:HW: Chap18:HW: 14, 27 ,87
15	12/21;12/24	Chap19:HW: 57, 58, 77 Chap20:HW: 30, 34, 41, 83, 84
16	12/28;01/31	Chap21:HW: 41, 52, 58, 65, 74
17	01/04;01/07	Chap22:HW: 20, 38, 67, 73, 76
18	01/11	Final Exam (01/11)