

❖ PHYS 0175 : Physics for Science and Engineering 2

• General Physics 2

- 4 credit course : 4 hours per week
- Electromagnetism
: Electricity, Magnetism, Electric Circuit, Electromagnetic Wave, Maxwell Eq., Introduction of optics.

• Text

- Principle of Physics by David Halliday , Robert Resnick , Jearl Walker (Author), 10th edition.: ISBN-13: 978-1118230749s

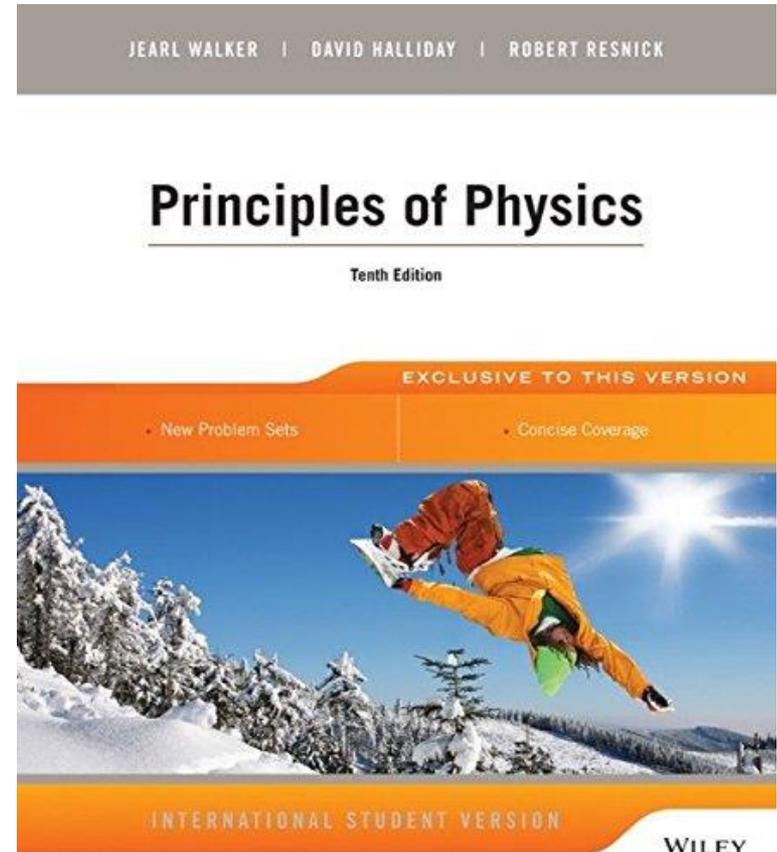
• Lecture

- Instructor : Jeungphill Hanne, PhD
jeungphill.hanne@scupi.cn
- Time : 4 hour per week
- Office Hours : 1 hour per week

• **Course Website** : In the Black Board

• **Assignment** : Home work, Reading, etc.

• **Test for Grading** : 2 Midterms, & Final



• **Course Scope & Objective**

- Scope : Electromagnetism(Electricity, Magnetism, Electrical Circuit, Electromagnetic Wave, Light, Geometrical/Wave Optics, etc.)
- Objective : Developing the “Physics way” of Thinking, (Your own Understanding!!! : **Critical thinking**), while studying Physics 2 (Electromagnetism)

• **Course Grading**

- Homework Sets (20%)
- Exams
 - Two midterms (22%+23%) and a final (35%)
- Scale: Followed by the rule from Sichuan University
- Basic rule : Any Cheating is prohibited !!!

• **Course Tips**

- Read Chapters in advance : at least familiar with terms
- Home Works: Solve problems by yourself as you can, go back to contents, and examples in the text book → *Make it yours!!*
- Exam : Review textbooks, HW, & build up your understanding and approach to tackle Questions.

• **Course Schedule of topics (tentative) : Next page**

- Course Schedule of General Physics 2 : Phys 0715

Week	Physics 2 (PHYS 0175)	Topics	Assignment
Week 1 (9/2-9/8)	Introduction&Chap21	Syllabus, Coulomb's Law	
Week 2 (9/9-9/15)	Chap22&Chap23	Electric Fields & Gauss' Law	HW1
Week 3 (9/16-9/22)	Chap23&Chap24	Electric Potential	HW2
Week 4 (9/23-9/29)	Chap24&Chap25	Capacitance	HW3
Week 5 (9/30-10/6)	National Holliday(10/1-10/7)		
Week 6 (10/7-10/13)	Chap 25 & Mid Term 1		HW4
Week 7 (10/14-10/20)	Chap26	Current & Resistance	HW5
Week 8 (10/21-10/27)	Chap27	Circuits	HW6
Week 9 (10/28-11/3)	Chap28	Magnetic Fields	HW7
Week 10 (11/4-11/10)	Chap29	Magnetic Fields due to Currents	
Week 11 (11/11-11/17)	Chap30 & Mid Term 2	Induction & Inductance	HW8
Week 12 (11/18-11/24)	Chap30 & Chap31	Electromagnetic Oscillations	HW9
Week 13 (11/25-12/1)	Chap32	Maxwell's Equation, Magnetism	HW10
Week 14 (12/2-12/8)	Chap 33	Electromagnetic Oscillations	HW11
Week 15 (12/9-12/15)	Chap 34	Images	HW12
Week 16 (12/16-12/22)	Chap 35	Interference	HW13
Week 17 (12/23-12/29)	Chap 36	Diffraction	HW14
Week 18 (12/30-1/5)	Final week		
Week 19 (1/6-1/12)	Final week		