

Course No.	409.214	Lecture No.	***	Course Title (Subtitle)	Fundamentals of Engineering Physics	Credit	3	
Representative Instructor	Name	Hahm, Taik Soo (post : Professor )			Homepage			
	E-mail	tshahm@snu.ac.kr			Phone No.	02-880-7261		
	Interview Time/Place :							
Prerequisite Course	General Physics I, II							
* 1.Purpose of Course	This course will provide the fundamental physical concept and basic mathematical tools which are necessary for undergraduate students of the department of nuclear engineering to take core courses offered in this department successfully and to enhance their understanding of the subjects. Topics include most essential parts of classical mechanics, electricity and magnetism, thermodynamics and statistical physics, and fluid mechanics. Background at the level of college freshmen physics and mathematics is required.							
* 2.Materials and Reference	<ul style="list-style-type: none"><li>• L. Susskind and G. Hrabovsky, <i>The Theoretical Minimum</i>, Basic Books (2013)</li><li>• E.M. Purcell, <i>Electricity and Magnetism : Berkeley Physics Course, Vol. 2</i>, 2<sup>nd</sup> Edition, McGraw-Hill (1984)</li><li>• F.S. Crawford Jr., <i>Waves : Berkeley Physics Course, Vol. 3</i>, McGraw-Hill (1968)</li><li>• F. Reif, <i>Statistical Physics : Berkeley Physics Course, Vol. 5</i>, McGraw-Hill (1967)</li></ul>							
* 3.Evaluation Method	Attendance	Task	Medium	Final	Random Evaluation	Attitude	Other	Total
	5	10	40	40	0	5	0	100
	Remark of Others :							
* 4.Lecture Plan	1. The Nature of Classical Physics and Mathematical Background 2. Dynamics 3. Energy, The Principle of Least Action, and Symmetries 4. Charge, Electric Potential and Fields 5. Electric Currents and Magnetic Fields 6. Electromagnetic Induction 7.Maxwell's Equations and Electromagnetic Waves 8. Midterm Exam 9.Basic Properties of Waves 10.Traveling Waves and Wave Packets 11.Waves in Two and Three Dimensions 12. Characteristic Features of Macroscopic System 13.Statistical Description of Systems of Particles 14. Macroscopic Theory 15. Canonical Distribution in the Classical Approximation / Final Exam							
5.References to Course Registration								

6. Support Services for Students with Disabilities  ※ You can modify these default contents.	For Lectures	<input type="radio"/> Visual Impairment: Allow note takers <input type="radio"/> Physical Disability: Allow note takers and assistants <input type="radio"/> Hearing Impairment: Allow note takers and translators, Allow lecture recording <input type="radio"/> Health Impairment: Excuse absence due to health problems, Allow note takers <input type="radio"/> Learning Disability: Allow note takers <input type="radio"/> Intellectual Disability / Autism Spectrum Disorder: Allow note takers and mentors
	For Assignments & Evaluations	<input type="radio"/> Visual Impairment / Physical Disability / Hearing Impairment / Health Impairment / Learning Disability: Extend assignment deadlines, Offer alternate assignment submission and response method, Extend testing period, Offer alternate testing method, Offer different testing room <input type="radio"/> Intellectual Disability / Autism Spectrum Disorder: Offer individualized assignments and alternative evaluations
	Others	Students who take this course can get appropriate level of support service including the support listed above depending on the students' individual characteristics and needs through consultation with professors and the Support Center for Students with Disabilities. If you have any questions concerning support service for students with disabilities you can contact Professor Hahm (02-880-7261) or Support Center for Students with Disabilities (02-880-8787).

◇ ◇ fields with \* : required fields

◇ If you don't release the syllabus, you may have some disadvantages.