강좌번호 Course No.	409.202	001		Title		핵공학개론2 Introduction to Nuclear Engineering 2	credit	3
	Name: Kyoung-Jae Chung (Associate Professor) Department of Nuclear Engineering				Homepage :			
담당교수 Instructor	E-mail : jkjlsh1@snu.ac.kr			Tel : 880-8338				
	Office Hours : Any time but prior appointment recommended							

|--|

	Radiation engineering				
	A. Waltar, Radiation and Modern Life: Fulfilling Marie Curie's Dream, Prometheus Books (2004)				
	C. Grupen and M. Rodgers, Radioactivity and Radiation, Springer (2016)				
	J. Shultis and R. Faw, Fundamentals of Nuclear Science and Engineering, CRC Press (2016)				
교재	N. Tsoulfanidid and S. Landsberger, Measurement and Detection of radiation, CRC Press (2015)				
Textbook and	Plasma engineering				
references	Plasma Science: Advancing Knowledge in the National Interest, The National Academic Press (2007)				
	F. Chen, Introduction to Plasma Physics and Controlled Fusion, Springer (2016)				
	Fusion engineering				
	G. McCracken and P. Stott, Fusion: The Energy of the Universe, Elsevier (2005)				
	F. Chen, An Indispensable Truth, Springer (2011)				

	Participation	Home Assignment	Mid-term Exam	Final Exam	Sum
평가방법	10 %	10 %	40 %	40 %	100%
Evaluation	비고				

수강생 참고사항 Note to the		
Note to the students		

부정행위자에	
대한 처리	- Plagiarism is strictly prohibited.
Note about	- Home assignments must include 'statement of originality'.
Plagiarism	

	주(기간)	강의내용
	week 1 9/4, 6	Introduction
	week 2 9/11, 13	Radiation and radioactivity
	week 3 9/18, 20	Radiation interaction with matter
	week 4 9/27, 10/2	Radiation source technology
	week 5 10/4, 11	Detection and measurement of radiation
	week 6 10/16, 18	Radiation dose and hazard assessment
		Radiation applications Mid-term exam (10/25)
강의 계획 Schedule	week 8 10/30, 11/1	Basic concepts of plasmas
	week 9 11/6, 8	Plasma and sheath
	week 10 11/13, 15	Plasma source technology
	week 11 11/20, 22	Plasma applications
	week 12 11/27, 29	Fusion energy
	week 13 12/4, 6	Various fusion concepts
	week 14 12/11, 13	Tokamaks
	week 15 12/18	Final Exam (12/18)