

교과목번호	430.306	강좌번호	003	교과목명	Signals and Systems	학점	3
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	Office hours : Tuesday and Thursday after class at 301-1008 or by appointment	

수업목표	In this course, students will learn basics of Linear Time-Invariant, Fourier Transform, and Sampling that form basis for signal processing, control, communication systems.
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교재 및 참고문헌	Text book : Alan V. Oppenheim and Alan S. Willsky, Signal & Systems, 2nd Edition, Prentice-Hall (Required)
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평가방법	Attendance	Homework	Midterm 1	Midterm 2	Final	Quiz	Total
	0%	20%	20%	20%	30%	10%	100%
	비고						

수강생 참고사항	<p>Prerequisite: None</p> <p>TA: Hyeong Geol Shin (sin4109@snu.ac.kr) and Tae Hyung Hwang (eeht1717@naver.com)</p> <p>TA office hours : Tuesday and Thursday 10:45 – 12:00 at 301 - 1053-2</p> <p>There will be a quiz at the beginning of each lecture covering the core topic of the previous lecture (On/Off grading w/o partial credit)</p> <p>Homework will be out on Thursday and is due before the class on the following Thursday (No Delay; On/Off grading w partial credit)</p> <p>Expected workload: Roughly 11 hours per week including lectures</p> <p>Homework will including Matlab programming. We will have a introductory session for Matlab.</p> <p>Exams may have one from homework, one from modified question of homework, and two others.</p>
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부정행위자 에 대한 처리	Don't cheat. We will follow the instruction of the school for cheating.
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강의
계획

주(기간)	강의내용
3월 2일 (목)	Introduction to Signals and Systems (HW#1)
3월 5일 (토)	Matlab tutorial 1 (optional)
3월 8일 (화)	Introduction to Signals and Systems
3월 10일 (목)	Linear Time-Invariant Systems (HW#2)
3월 12일 (토)	Matlab tutorial 2 (optional)
3월 15일 (화)	Linear Time-Invariant Systems
3월 17일 (목)	Linear Time-Invariant Systems (HW#3)
3월 22일 (화)	Continuous-Time Fourier Transform
3월 24일 (목)	Continuous-Time Fourier Transform (HW#4)
3월 29일 (화)	Continuous-Time Fourier Transform
3월 31일 (목)	Continuous-Time Fourier Transform (HW#5)
4월 5일 (화)	Midterm I (7:00 PM – 9:00 PM)
4월 7일 (목)	Discrete-Time Fourier Transform (HW#6)
4월 12일 (화)	Discrete-Time Fourier Transform
4월 14일 (목)	Discrete-Time Fourier Transform (HW#7)
4월 19일 (화)	Fourier Series Representation of Periodic Signals
4월 21일 (목)	Fourier Series Representation of Periodic Signals (HW#8)
4월 26일 (화)	Sampling
4월 28일 (목)	Sampling (HW#9)
5월 3일 (화)	Sampling
5월 5일 (목)	No Class (National Holiday)
5월 10일 (화)	No Class (International Conference in MRI)
5월 12일 (목)	No Class (International Conference in MRI)
5월 16일 (월)	Midterm II (7:00 PM – 9:00 PM)
5월 17일 (화)	Time and Frequency Characterization
5월 19일 (목)	Time and Frequency Characterization (HW#10)
5월 24일 (화)	Laplace Transform
5월 26일 (목)	Laplace Transform (HW#11)
5월 31일 (화)	z-Transform
6월 2일 (목)	z-Transform (HW#12)
6월 7일 (화)	Applications
6월 10일 (금)	Final exam (7:00 PM – 10:00 PM)