SYLLABUS

Course Type		Elective
Course Code		EE210
Course Name	Korean	확률과 기초 확률과정
Course Name	English	Probability and Introductory Random Processes
Instructors		해당교수
Lecture:Exp.:Credit(Homework)		3:0:3
Mutually Recognized Course (BS/MS) : (No)		Term : Spring, Fall
Descriptions of Courses		In this course, we discuss various topics in probability theory and introductory random processes such as probability, random variables, expectations, characteristic functions, random vectors, random processes, correlation functions, and power spectrum. A number of engineering examples are examined for students' better understanding of principles.

•Schedule

Period	Topics	Remarks
Week 1	Set Theory	
Week 2	Probability Axioms and Consequences	
Week 3	Calculation of Probability and Representation of Probability Model	
Week 4	Discrete Random Variables: PMF and CDF	
Week 5	Discrete Random Variables: Functions of Random Variables	
Week 6	Continuous Random Variables: CDF and PDF	
Week 7	Continuous Random Variables: Families of Continuous Random Variables	
Week 8	Pairs of Random Variables: Joint PMF and PDF	
Week 9	Pairs of Random Variables: Functions of Two Random Variables	
Week 10	Random Vectors: Probability Models of N Random Variables	
Week 11	Random Vectors: Functions of Random Vectors	
Week 12	Sums of Random Variables	
Week13	Central Limit Theorem	
Week 14	Random Processes: Notions, Properties, and Correlation Functions	
Week 15	Random Processes: Examples	
Week 16	Summary	

* Laboratory topics should be given in Remark for courses with lab hours.

Instructors : Signature

Chairman: Signature