

# 강 의 계 획 서(Syllabus)

## [1] 기본 정보(Basic Information)

### ■ 강의 정보(Course Information)

교과목명 (Course Title)	학률변수론	강의유형 (Course Type)	이론
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## [2] 학습 목표/성과(Learning Objectives/Outcomes)

### ■ 과목 설명(Course Description)

The course is an introductory course in engineering probability including random process and some selected topic on queueing theory.

### ■ 학습 목표(Learning Objectives)

The purpose of this course is to introduce undergraduate students to a set of systematic methodologies and modeling tools for handling uncertainty and variability in engineering problems. Probabilistic models and methods are introduced and emphasized. Primary emphasis is placed on problem solving examples, from which the need for the models and methods emanate. Careful attention is given to tying back models and methods to real measurements and data, thus providing immediate utility to students working in engineering problems, as well as a clear path for testing and validation of the methods and results.

### ■ 학습 성과(Learning Outcomes)

Understanding of basic probability theory, random variable and Markov process.

## [3] 강의 진행 정보(Course Methods)

### ■ 강의 진행 방식(Teaching and Learning Methods)

강의 진행 방식	추가 설명
오프라인 강의	PPT

### ■ 수업 자료(Textbooks, Reading, and other Materials)

수업 자료	제목	저자	출판일/게재일	출판사/학회지
Textbook	Fundamentals of Applied Probability and Random Processes	Oliver C. Ibe	2005	Elsevier

[4] 수업 일정(Course Schedule)

차시	강사명	수업주제 및 내용	제출 과제	추가 설명
1	이정륜	Basic Probability Concepts		
2	이정륜	Basic Probability Concepts		
3	이정륜	Random variables	HW1	
4	이정륜	Random variables		
5	이정륜	Moments of Random variables	HW2	
6	이정륜	Moments of Random variables		
7	이정륜	Special Probability Distributions	HW3	
8	이정륜	Special Probability Distributions		
9	이정륜	Multiple Random Variables	HW4	
10	이정륜	Multiple Random Variables		
11	이정륜	Functions of Random Variables	HW5	
12	이정륜	Functions of Random Variables		
13	이정륜	Random Processes	HW6	
14	이정륜	Random Processes		

[5] 수강생 학습 안내 사항

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