Probability and Statistics

CATHOLIC UNIVERSITY OF KOREA

Course Syllabus

2015학년도 제2학기

Course Title	Korean	확률및통계			
	English	Probability and Statistics			
Course Number-Division	03141-01	Course Completion Requirement	제1전공선택	Time/Credits	3/3
Day / Time	화4~5(M305), 목4(M305)	Course Target Audience		Prerequisite Courses	
Professor	Full Name	Office	Phone Number	E-MAIL	
	바실리		0221644523	bassvasys@hotmail.com	
Web Site			English Class		

1.Course Outline

Probability and statistics. The basis of the probability theory and statistics. General methodologies and theorems. Practical implementations.

2. Objectives

The main objective of the "Probability and Statistics" class is an extensive study and understanding general issues of the probability theory, getting enough knowledge to implement probability and statistics in practice.

3. Teaching Method

Beam projector, lecturing, presentations, discussion

4. Evaluation Method

Attendance 10%, assignments 30%, Middle Exam 30%, Final exam 30%

5. Assignments

Several home assignments.

6. Experiment, Practical Exercise

7. Related Courses

8. Textbook

Book Title	Publisher	Author	Year	Textbook or not
Probability and statistics for engineers and scientists	Boston :Pearson Education,2012	Walpole, Ronald E.	2012	교재

9. Detailed Weekly Activities

Week	Date	Lecture Content	Reference Material	Remarks
1	2015-08-31 ~ 2015-09-04	Introduction		
2	2015-09-07 ~ 2015-09-11	Probability and Statistics. Review. Part 1		
3	2015-09-14 ~ 2015-09-18	Probability and Statistics. Review. Part 2		
4	2015-09-21 ~ 2015-09-25	Introduction to data analysis		
5	2015-09-28 ~ 2015-10-02	Probability. Definitions		

Week	Date	Lecture Content	Reference Material	Remarks
6	2015-10-05 ~ 2015-10-09	Probability. Bayes' rules.		
7	2015-10-12 ~ 2015-10-16	Midterm		
8	2015-10-19 ~ 2015-10-23	Random variables.		
9	2015-10-26 ~ 2015-10-30	Probability distributions.		
10	2015-11-02 ~ 2015-11-06	Mathematical expectation. Part 1		
11	2015-11-09 ~ 2015-11-13	Mathematical expectation. Part 2		
12	2015-11-16 ~ 2015-11-20	Discrete Probability Distribution.		
13	2015-11-23 ~ 2015-11-27	Continues Probability Distribution.		
14	2015-11-30 ~ 2015-12-04	Function of random variables		
15	2015-12-07 ~ 2015-12-11	Linear regression and Correlation		
16	2015-12-14 ~ 2015-12-18	Final exam		