

01204312 Probability and Statistics for Computer Engineering

1st semester 2014 (August – December)

Section 450

Instructor Information

Instructor: Associate Prof. Anan Phonphoem, Ph.D. (รศ.ดร.อนันต์ พลเพิ่ม)
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Course Information

Lecture: Section 450: Tue 9 – 12 (Room 203)
Class URL: <http://www.cpe.ku.ac.th/~anan>
Prerequisite: 417168 Engineering Mathematics II
Course Description: Probability; conditional probability and independence of events; random variables; distribution and density functions; functions of one random variable; multiple random variables; operations on one and multiple random variables; Introduction to Statistics; statistical inferences; estimation; confidence interval; hypothesis testing; application to computer engineering problems.
Text Book: 1. "Probability and Stochastic Processes: A Friendly Introduction for Electrical and Computer Engineers," Roy D. Yates and David J. Goodman, John Wiley & Sons, Inc., **Second Edition, 2005**, ISBN 0-471-45259-9
2. "Probability and Statistics for engineers and scientists," Anthony Hayter, **Third Edition, 2007**, ISBN 0-495-10878-2
Supplement: 1. "Probability, Random Variables, and Stochastic Processes," 3rd Edition, Athanasios Papoulis, McGraw-Hill

Grade

Midterm Exam: 42 %
Final Exam: 43 %
Homework & Assignment: 15 %

If ((Attendance Score \geq 85%) **and** (You are the 1st rank for the particular grade))

Then (one stop adjustment automatically) /* e.g. "C+" becomes "B" */

Grading Policy

- Your Grade is based on the overall class performance. However, the cumulative score **below 50%** is considered as **fail (F)**.
- An **"F"** grade will be given to any form of cheating (for all parties).
- Make-up exam will only be provided for restrict circumstances such as severe illness.
- You are not allowed to take a midterm exam if you miss more than 2 lectures and also not allowed to take final exam if you miss more than 4 lectures.

Attendance Score

Description	Score (0 – 1)
0 – 15 min	1
15.01 – 100 min	$(100 - \text{MinLate})/100$
> 100 min	0
If missing class	
• with “letter of leave of absence in advanced”	0.5
• without “letter of leave of absence in advanced”	0

Assignment Policy

- All hard-copy assignments must be handed in at the beginning of the class (> 15 min. is considered late). For soft-copy will be timed by the local time stamp.
- No Late assignment will be graded.
- No credit for plagiarism and considered as cheating.
- No credit for copying homework or assignment (for all copies) and considered as cheating.

Tentative Course Schedule

Week	Date	Description
1	Tue 19 Aug. 2014	Intro to Prob - Set Theory
2	Tue 26 Aug. 2014	Conditional Prob
	Tue 2 Sep. 2014	(No Class) Engineering Faculty Seminar
3	Tue 9 Sep. 2014	Prob Sequential
4		Discrete RV – 1
5	Tue 16 Sep. 2014	Discrete RV – 2
6	Tue 23 Sep. 2014	Multiple Discrete RV – 1
7	Tue 30 Sep. 2014	Multiple Discrete RV- 2
8	Tue 7 Oct. 2014	Cont Random Variable – 1
	Tue 14 Oct. 2014 @12 – 3 PM	Midterm Exam
9	Tue 21 Oct. 2014	Cont Random Variable – 2
10	Tue 28 Oct. 2014	Mixed RV ; Mult Cont RV – 1
11	Tue 4 Nov. 2014	Mult Cont RV – 2
12	Tue 11 Nov. 2014	Descriptive Statistics
13	Tue 18 Nov. 2014	Estimation
14	Tue 25 Nov. 2014	Confidence Interval
15	Tue 2 Dec. 2014	Hypothesis Testing
	Thu 11 Dec. 2014 @1 – 4 PM	Final Exam