

Probabilities and Statistics 資訊工程系四日二B 課號 2522

Instructor:洪士程副教授 E-Mail:schong@cyut.edu.tw Room:理工大樓E726 Tel:7801

Course Time & Office Hours

Course Time Tuesday 2 (9:25 - 10:15) Classroom: T2-108 Wednesday 5,6 (13:30 - 15:20) Classroom: T2-108 Office Hours Wednesday 15:30-17:30

Credits

Required or Elective Required (必修) Credits 3 Credits (三學分)

Goal

- This course gives an introduction to the concepts of probability and the functions of random Variables..
- Give an introduction to:
- Introduction.
- Basic Probability.
- A Single Random Variable.
- Functions of a Random Variable and Expectations.
- Two Random Variables.
- Expectations and Functions.
- Characteristic Function.
- Multiple Random Variables.

Text Book

Probability and Statistics for Engineering and Science, 8th Ed., 2012.

Jay L. Devore

Brooks Cole (俊傑書局代理)

Reference Books

Reference:

Introduction to Probability and Statistics, 4th edition, 2008.

J. Susan Milton and Jesse C. Arnold

Publisher: McGraw-Hill

Schedule of Progress (1/2)

- Introduction to course (week 1)
- Chap 1 Overview and Descriptive Statistics (week 2)
- Chap 2 Probability (weeks 3,4)
- Chap 3 Discrete Random Variables and Probability Distributions (weeks 5,6)
- Chap 4 Continuous Random Variables and Probability Distributions (weeks 7,8)
- Midterm exam (week 9)

Probabilities and Statistics, Shih-Cheng Horng, CSIE CYUT, 2014

Schedule of Progress (2/2)

- Chap 5 Joint Probability Distributions and Random Samples (weeks 10,11)
- Chap 6 Point Estimation (weeks 12,13)
- Chap 7 Statistical Intervals Based on a Single Sample (weeks 14,15)
- Chap 8 Tests of Hypotheses Based on a Single Sample (weeks 16,17)
- Final exam (week 18)

Resources

Text Book

Handout

http://lms.ctl.cyut.edu.tw/

LMS-數位學習系統

Evaluation

Quiz (30%) Participation (10%) Mid exam (30%) Final exam (30%)