機率與統計 Probabilities and Statistics 資訊工程系四日二A 課號 2552

Instructor: 洪士程 教授兼系主任

E-Mail: schong@cyut.edu.tw

Room:資訊大樓M313

Tel: 7631

Course Time & Office Hours

- Course Time
- Thursday 2 (9:25 10:15)
- Classroom: T2-208
- Friday 2,3 (9:25 11:15)
- Classroom: T2-407
- Office Hours
- Tuesday 10:25-12:10



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, 9th Ed., 2016.
- Jay L. Devore
- Brooks Cole (俊傑書局代理)
- **ISBN-13:** 9781305251809

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)

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://tronclass.cyut.edu.tw/

TronClass數位教學平台



Evaluation

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