

機率與統計
Probabilities and Statistics
資訊工程系四日二B
課號 2555

Instructor：洪士程 副教授


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Room: 理工大樓E726


Tel: 7801

Course Time & Office Hours

Course Time

 Tuesday 2 (9:25 - 10:15)

 Classroom: T2-215

 Friday 7,8 (15:30 - 17:20)

 Classroom: G-106

Office Hours

 Wednesday 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., 2015.

 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)

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://lmsctl.cyut.edu.tw/>

LMS-數位學習系統

Evaluation

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