Course: ENGG2760  Course ID: 013400  Eff Date: 2022-07-01  Crse Status: Active  Apprv. Status: Approved

**Probability for Engineers**

A first course in the fundamentals of probability theory and their applications in engineering. Topics include sample space and events, counting, axioms of probability, conditional probability, independence of events, discrete and continuous distributions, random variables, joint distributions, and limit theorems.

Grade Descriptor:

A

EXCELLENT – exceptionally good performance and far exceeding expectation in all or most of the course learning outcomes; demonstration of superior understanding of the subject matter, the ability to analyze problems and apply extensive knowledge, and skillful use of concepts and materials to derive proper solutions.

B

GOOD – good performance in all course learning outcomes and exceeding expectation in some of them; demonstration of good understanding of the subject matter and the ability to use proper concepts and materials to solve most of the problems encountered.

C

FAIR – adequate performance and meeting expectation in all course learning outcomes; demonstration of adequate understanding of the subject matter and the ability to solve simple problems.

D
MARGINAL – performance barely meets the expectation in the essential course learning outcomes; demonstration of partial understanding of the subject matter and the ability to solve simple problems.

有关等級說明的資料，請參閱英文版本。

F

FAILURE – performance does not meet the expectation in the essential course learning outcomes; demonstration of serious deficiencies and the need to retake the course.

有關等級說明的資料，請參閱英文版本。

Equivalent Offering:
Units: 2 (Min) / 2 (Max) / 2 (Acad Progress)
Grading Basis: Graded
Repeat for Credit: N
Multiple Enroll: N
Course Attributes: 

Topics: 

COURSE OUTCOMES

Learning Outcomes:
At the conclusion of the course, students should be able to
1. define and understand the fundamental concepts in probability
2. identify, formulate, and solve simple engineering problems involving randomness

Course Syllabus:
Provided by the course teacher(s) in the respective teaching term.

Assessment Type:
Essay test or exam : 65%
Homework or assignment : 25%
Others : 10%
Feedback for Evaluation:
Students may provide their feedback through office hours and course evaluation.

Required Readings:
To be provided by course instructor.

Recommended Readings:

OFFERINGS
1. ENGG2760
   Acad Organization=ENO; Acad Career=UG

COMPONENTS
   LEC : Size=80; Final Exam=Y; Contact=2
   TUT : Size=80; Final Exam=N; Contact=2

ENROLMENT REQUIREMENTS
1. ENGG2760
   Enrollment Requirement Group:
   Not for students who have taken ENGG2430 or 2450 or 2470 or ESTR2002 or 2005 or 2012 or 2018 or 2308 or 2362 or IERG2470 or MIEG2440

CAF
   eLearning hrs for blended cls  0
   No. of micro-modules           0
   Research components (UG)      0%

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