

Ministry Of Higher Education and Scientific Research Mustansiriyah University / College of Science / Department of Mathematic



(الخطة الدراسية للمساق) Course Plan

Course No.: 54452133

Time Division: 4hr Theoretical

Course Name: Probability (1)

Semester & Year: First, 2022 / 2023

Course Description:

This subject presents the Permutation, Combination, Events, Independent events, Conditional Probability, Bayes theorem, Random Variables, Probability mass function, Probability density function, Cumulative Distribution function, Mathematical Expectation, Variance, Moments, Moment Generating function.

Course Intended Outcomes:

At the end of the Course, students are expected to learn the concept of Probability, Conditional Probability, Bayes theorem, Random Variables and how to find Probability mass function, Probability density function, Cumulative Distribution function, Mathematical Expectation, Variance, Moments, and moment generating function.

Week	Topics Covered			
1	A review of Permutation and Combination.			
2	Some Basic Concepts of Probability			
3	Properties of the Probability			
4	Independent events, Independent of three events			
5	Conditional Probability			
6	Total Probability theorem and Bayes theorem			
7	The first exam			
8	Random Variables, Probability mass function			
9	Probability density function			
10	Cumulative Distribution function			
11	Mathematical Expectation			
12	The Variance			
13	Moments			
14	Moment Generating function.			
15	The second exam			

rextbooks:

[1]: Introduction to Probability, Charles M. Grinstead, James L. Snell, 2012

[1]: Introduction of the state Haubold, 2017

[3]:Walrand.J.,Lecture Note on Probability theory and Random processes, 2004

Suggested references:

الغرابي: علي اسماعيل واخرون "الاحتمالات" جامعة بغداد 1987 :[1]

ذنون: باسل يونس "الاحتمالات والمتغيرات العشوائية" جامعة الموصل 1991 :[2]

محمد ابراهيم عقيل عبد الرحمن محمد ابوعمة "نظرية الاحتمال وتطبيقاتها" جامعة الملك سعود السعودية 2000 :[3]

Marking:

	Final Exam			
1 st	2 nd	Practical	Activity	
exam	exam			
20	20	5	5	70%

Assignment/ Project	Description	Due Date	Marking
Quizzes	Oral		5

[معلومات الأستاذ] Instructor(s) information

Lecture Room: (A 402 - A403) Office No.: (11) Section: Mathematic

Instructor's Name: Dr. Shurooq Ahmed Kareem;

E-Mail: shuroq80@uomustansiriyah.edu.iq

Office Hours: Mon.: [10: 10 - 11: 50]

Wed.: [10: 10 - 11: 50]

NOTES:

-Office Hour: Other office hours are available by appointment.

-The content of this syllabus not be changed during the current semester.

Lecturer Signature

Chairman Signature