

Course Description Form

1. Course Name:	
Probability and Statistics	
2. Course Code:	
MATH243	
3. Semester / Year:	
First semester/ Second year	
4. Description Preparation Date:	
14/3/2024	
5. Available Attendance Forms:	
6. Number of Credit Hours (Total) / Number of Units (Total)	
45/3	
7. Course administrator's name (mention all, if more than one name)	
Name: Ranen Zaid Ahmood Email: ranen.z.ahmood@nahrainuniv.edu.iq	
8. Course Objectives	
Course Objectives	<ul style="list-style-type: none">• Enabling the students to understand the basics of Probability• Providing the students with the maximum amount of statistical measure of data• Understanding the basic concepts of the subject of Probability and statistics• Providing the students with the sufficient amount of statistical measure of data and Probability
9. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none">• Introductory written lectures and various activities and assignments which are given in the classroom.• Answering the quick questions raised in the hall and the possibility of solving them by the student.• Adopting the principle of preparing reports by students.

10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	Basic concepts	Introduction to Statistics	Attendance interactive lectures	Ask questions and give assignments
2-6	20	Statistical description data	Tabular Representation	Attendance interactive lectures	Ask questions and give assignments
7-10	16	Statistical measure data	Mean, median, mode, Variance	Attendance interactive lectures	Ask questions and give assignments
11-15	20	Probability	Basic concepts theorems and Bays theorem	Attendance interactive lectures	Ask questions and give assignments
11. Course Evaluation					
Pre final exam 40% (written exams) Final exam 60%					
12. Learning and Teaching Resources					
Required textbooks (curricular books, if any)			<ul style="list-style-type: none"> • Modern Mathematical Statistics with Applications, Jay L. Devore, Kenneth N. Berk, Springer, 2012. • Mathematical Statistical with Applications, Dennis D. Wackerly, William Mendenhall III, Richard L. Scheaffer, Thomson Brooks, 2008 		
Main references (sources)			<ul style="list-style-type: none"> • Introduction to statistics, by Ronald E. Walpole. Introduction to statistics, by Ronald E. Walpole. 		
Recommended books and references (scientific journals, reports...)			Introduction to the theory of statistic, Alexander Mood and Franclin Garybil		
Electronic References, Websites					