Course Description Form

1. Course Name:
Mathematical Statistics I
2. Course Code:
MATH413
3. Semester / Year:
First/ Fourth
4. Description Preparation Date:
5. Available Attendance Forms:
lectures
6. Number of Credit Hours (Total) / Number of Units (Total)
60 hours/ 4 credits
7. Course administrator's name (mention all, if more than one name)
Name: Dr. Akram Abbas Al-Sabbagh Email: akram.alsabbagh@nahrainuniv.edu.iq
8. Course Objectives

Course Objectives	• Learning the basic concepts of mathematical statistics • the definition of random variables and statistical distributions • introducing some of the most common statistical distributions with some properties and applications
9. Teaching and Learning Strategies	
Strategy	The strategy is to provide the students with as much information about mathematical statistics as possible by attending lectures to maximize the connection between the students and the lecturer in order to solve as many real-life statistical applications as possible. The lectures, some homework and some other additional exercises is also shared on Google Classroom.
10. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	Basic concepts	Introduction to Statistics	lectures	
2-8	28	Statistical distributions	Distribution of Random Variables	lectures	
8-15	28	Common statistical distributions	Some Special Mathematical Distributions	lectures	

11. Course Evaluation

Midterm exam: 40 marks
Final exam: 60 marks

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Introduction to the Theory Statistics, Alixander Mood,
Main references (sources)	-Modern Mathematical Statistics with Applications, Jay L. Devore, Kenneth N. Berk, Springer, 2012. - Mathematical Statistics w Applications, Dennis D. Wackerly, Willi Mendenhall III, Richard L. Scheaf Thomson Brooks, 2008.
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	