Kingdom of Saudi Arabia
Ministry of Higher Education
Majmaah University
Zulfi, College of Sciences
Mathematics Department

جامعة المجمعة
Majmaah University

المملكة العربية السعودية
وزارة التعليم العالي
جامعة المجمعة
كلية العلـــوم بالزلفي
قسم الرياضيات

COURSE CLASSIFICATION FORM

Course Number/Name	STAT 203 Probability I		
Prepared by	Dr. Ahmed Elmoasry		
Program Learning Outcomes	**Levels* (0,1,2, 3,4,5)**	**Relevant Activities**	**Assessment Methods/Metrics**
a1. Apply fundamentals and concepts of mathematics.	5	Lectures, Assignments,	**project**
a2. Apply fundamentals and concepts General sciences and	4	Assignments on creativity dealing with	**Lectures, Quizzes, Homework, Exam**
a3. Realize Social and ethical	3	Design project; Lectures and assignments	**project**
b1. Read and construct mathematical arguments and proofs		Design project;	**Project, Lectures, Quizzes, Homework, Exam**
b2. Apply critical thinking skills to solve problems that can be modeled mathematically.	5	Lectures and assignments.	**project**
c1. Work independently and	4	Design project	**project**
c2. Bear responsibility for	3	Design project in which students demonstrate basic	**project**
c3. Realize codes of ethics and their importance.	5	Design project; Lectures	**Lectures, Quizzes, Homework, Exam**
d1. Communicate a depth and breadth of mathematical knowledge, both orally and in	4	Design project in which students show ability to apply principles of Mathematical and Statistical data	**project**
d2. Ability to Organize, connect and communicate mathematical	3	Design project; Lectures and assignments	**Project, Lectures, Quizzes, Homework, Exam**
d3. Critically interpret numerical and graphical data.	5	Design project; Lectures and assignments	**project**
e1. Use computer and its applications as an office tool	4	Lectures and oral discussions on identification of the	**project**

*** Please mark (or type) High (5), Medium-High (4), Medium (3), Low-Medium (2), Low (1) or Not At All (0) indicating the level to which you believe, as an instructor, the students have achieved these outcomes in this course.**

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Course Objectives and Outcomes

Course Number: STAT 203 Course Name: Probability I
Prepared by: Dr. Ahmed Elmoasry

Table 1: Relationship of course objectives/outcomes with PLO and ASIIN Criteria

Course Objectives:	Course Outcomes:	ASIIN	PLO
1. This course is designed to follow on from, and reinforce, A level mathematics.	1. solve complex problems in Probability.	c	a
	2. Apply knowledge, as needed, to design a satisfactory system to achieve a final successful project.	c, e	a
2. To build a logical structure on probabilistic intuition, and to cover such peaks of the subject as the Strong Law of Large Numbers as well as more modern topics.	1. have a systematic and coherent understanding of theoretical mathematics in the field of Probability.	c, e	A,b
	2. Synthesize information that the team gathers to solve open-ended problems.	e	A,b
	3. Conceptualize alternative concepts, evaluate alternatives, select preferred alternative, and implement the preferred project	c, e	A,b
3. The emphasis is upon the understanding of real-life statistical problems, and develops the basic concepts and statistical methods by example.	1. have acquired coherent body of knowledge of these subjects demonstrated through one or more of the following topic areas: Probability as a measure. Random variables. Convergence Theorems. Probability under partial information. Applications of Probability. 2. students will have basic mathematical skills in : Modeling, computation 3. students will have basic skills in exploratory data analysis.	a, c	B,c
4. Broaden skills in team work, critical thinking, communication, planning and scheduling through design project	1. Learn successful group interaction for a project	d, g	C,d
	2. Produce final design report as part of their deliverable	g	C,d
	3. Deliver a final oral presentation for their project.	g	C,d
5. Enable students to consider safety, ethical, legal, and other societal constraints in execution of their design projects	1. Understand environmental and legal issues	h	d
	2. Understand the importance of professional and ethical	f	d
	3. Understand the impact of aesthetic and human aspects	h	d
	4. Select from standard tables and catalogues machine elements, components and materials given appropriate performance requirements	c	e

Table 2: Methods of assessment of course syllabus

.

Assessment Method	Number/Type				Instructor Assessed	TA/Grader Assessed	Peer/Self Assessed
Homework	5 homework assignments				x		
Mid Terms/Final Exams	2 mid-term; 1 final exam				x		
Quizzes	One biweekly				x		
Individual Projects	1-2 wks	3-4 wks	1/2 sem	Full sem			
Team Projects	1-2 wks	3-4 wks x	1/2 sem	Full sem x	x		x
Lab Assignments							
Computer Assignments							
Computer Tools Used							
Oral Presentations	one				x		x
Written Reports	one				x		
Other	Design project (project binder)				x		

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Learning Outcomes Assessment : تقويم مخرجات التعلم
Second Semester - 1434-1435 H : الفصل الثاني - ١٤٣٤-١٤٣٥ هـ

Course Learning Outcomes

a	b	c	d	e
X	X	X	X	X

مخرجات التعلم للمقرر

Section Number:	426	رقم الشعبة:	
Students Number:	8	عدد الطلاب:	

Lecture (2 Hours) Lab (1 Hours)

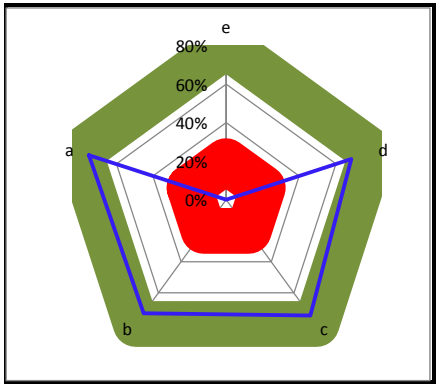
Course Name	Probability I	احتمال ١	اسم المقرر:
Course Code	STAT 203	احص ٢٠٣	رمز المقرر :

نظري (٢ ساعة) عملي (١ ساعة)

Assessment Tools Map مصفوفة أدوات القياس

	a	b	c	d	e	Total
H.W	5	5	5	5		20
ME1	5	5	5	5		20
ME2	5	5	5	5		20
LAB Ass	0	0	0			0
Final Exam	10	10	10	10		40
TOTAL	25	25	25	25		100

Assessment Results نتائج التقويم



Students Achievement : تحصيل الطلاب

م No	رقم الطالب Student Nb	إسم الطالب	T	Total a	Total b	Total c	Total d	Total e	Final Exam a	Final Exam b	Final Exam c	Final Exam d	Final Exam e	ME2 a	ME2 b	ME2 c	ME2 d	ME2 e	ME1 a	ME1 b	ME1 c	ME1 d	ME1 e	H.W a	H.W b	H.W c	H.W d	H.W e
1	٢٩١١٠١٢٢٠	a1	75	19	18	18	20	0	8	7	8	8		4	4	2	4		3	4	4	4		4	3	4	4	
2	٣٠١١٠٥٧٣٦	a2	53	11	15	14	13	0	2	4	2	2		3	4	4	4		3	3	4	4		3	4	4	3	
3	٣٠١١١٣٢٧٧	a3	73	21	16	18	18	0	10	7	8	7		4	3	3	4		3	3	3	3		4	3	4	4	
4	٣٢٢١٢٠٥٧٢	a4	68	19	18	18	13	0	10	7	7	4		3	4	4	3		3	3	3	3		3	4	4	3	
5	٣٣١١٠٥٠٢٧	a5	75	19	19	19	18	0	9	9	9	7		4	3	4	3		2	4	2	4		4	3	4	4	
6	٤٣١٦٤٠٠٢١	a6	79	20	21	20	18	0	10	9	10	7		4	4	4	4		3	4	2	4		3	4	4	3	
7	٤٣١٦٤٠٠٣٣	a7	85	23	20	23	19	0	10	7	10	5		4	5	5	5		5	5	4	5		4	3	4	4	
8	٤٣١٦٤٠١٦٨	a8	74	18	19	19	18	0	7	7	8	7		4	4	4	4		4	4	3	4		3	4	4	3	
9			0																									
9			0																									
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16																												
17																												
		Average المتوسط		18.8	18.3	18.6	17.1	0	8.25	7.13	7.8	5.88	0	3.75	3.875	3.75	3.88	0	3.25	3.75	3.13	3.875	0	3.5	3.5	4	3.5	0
		Percentage النسبة المئوية		75%	73%	75%	69%	#	83%	71%	78%	59%	#	75%	78%	75%	78%	#	65%	75%	63%	78%	#	70%	70%	80%	70%	#

Head of Department: Prof. Dr. Adel M. Zaki أ.د. عادل محمد زكي رئيس القسم:

Signature: التوقيع:

Course Teacher: Ahmed ElMoasry أحمد المعاصري أستاذ المقرر:

Signature: Dr. Ahmed ElMoasry د. أحمد المعاصري التوقيع:

a	b	c	d	e
75%	73%	75%	69%	####

Students Outcomes Survey Analysis

STAT 203

ID	Outcome A			Outcome B		Outcome C			Outcome d			O. E
	a1	a2	a3	b1	b2	c1	c2	c3	d1	d2	d3	e1
4E+08	4	0	4	5	5	5	4	5	5	4	4	0
4E+08	4	2	5	4	4	4	4	4	5	4	5	4
4E+08	5	5	5	5	5	5	5	5	5	4	5	4
3E+08	5	1	5	5	4	4	4	5	4	5	4	3
3E+08	4	5	3	5	4	5	5	5	3	5	4	3
3E+08	4	0	4	5	5	5	4	5	5	4	4	0
3E+08	5	0	3	4	4	5	5	2	4	4	3	4
	4.43	1.86	4.14	4.71	4.43	4.71	4.43	4.43	4.43	4.29	4.14	2.57
	89%	37%	83%	94%	89%	94%	89%	89%	89%	86%	83%	51%
	70%			91%		90%			86%			51%

log descrip

-requistis I

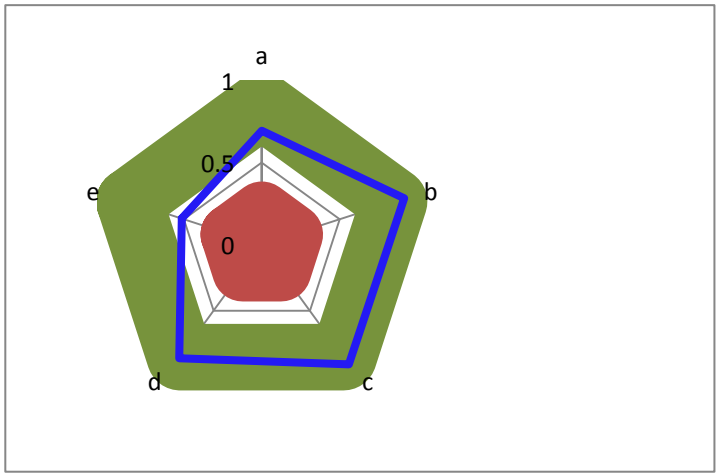
2a	2b
5	5
5	4
5	4
4	4
4	3
4	4
4	4
4.43	4.00
89%	80%
84%	

t Book Evaluati

3a	3b	3c
5	5	5
3	4	4
5	5	5
5	4	5
5	4	5
4	3	3
3	3	3
4.29	4.00	4.29
86%	80%	86%
84%		

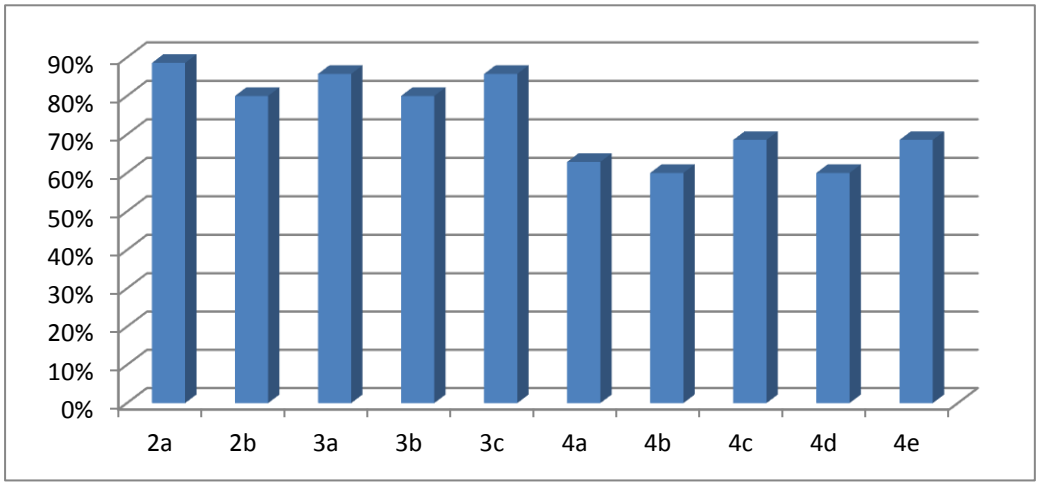
omputer Usage Evaluatior

4a	4b	4c	4d	4e
5	5	5	5	5
3	4	5	3	5
5	4	4	4	5
1	1	1	2	2
2	2	2	2	1
2	2	2	2	2
4	3	5	3	4
3.14	3.00	3.43	3.00	3.43
63%	60%	69%	60%	69%



a	b	c	d	e
70%	91%	90%	86%	51%

2a	2b	3a	3b	3c	4a	4b	4c	4d	4e		
89%	80%	86%	80%	86%	63%	60%	69%	60%	69%		



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Instructor Course Evaluation Form

The purpose of this evaluation is to collect instructor feedback for improving this course and the Mathematics program. Information will also be used for program accreditation purposes.

I. Program Learning Outcomes Evaluations

Course Number/Name	STAT 203 Probability I	Semester	First 1434/1435
Instructor	Dr. Ahmed Elmoasry		

The course listed above is designed for students to achieve the following outcomes at a Not At All, Low, Low- Medium, Medium, Medium-High or High level.

Please mark (or type) High (5), Medium-High (4), Medium (3), Low-Medium (2), Low (1) or Not At All (0) indicating the level to which you believe, as an instructor, the students have achieved these outcomes in this course.

Program Learning Outcomes	Relevant Activities	5	4	3	2	1	0
a1. Apply fundamentals and concepts of mathematics.	Lectures, Assignments,						
a2. Apply fundamentals and concepts General sciences and Computer skills.	Assignments on creativity dealing with physical systems						
a3. Realize Social and ethical values.	Design project; Lectures and assignments						
b1. Read and construct mathematical arguments and proofs.	Design project;						
b2. Apply critical thinking skills to solve problems that can be modeled mathematically.	Lectures and assignments.						
c1. Work independently and within a team	Design project Home works						
c2. Bear responsibility for different situations.	Design project in which students demonstrate basic knowledge of Mathematics in the development of the						
c3. Realize codes of ethics and their importance.	Design project; Lectures						
d1. Communicate a depth and breadth of mathematical knowledge, both orally and in writing.	Design project in which students show ability to apply principles of Mathematical and Statistical data						
d2. Ability to Organize, connect and communicate mathematical and algorithmic ideas.	Design project; Lectures and assignments						
d3. Critically interpret numerical and graphical data.	Design project; Lectures and assignments						
e1. Use computer and its applications as an office tool	Lectures and oral discussions on identification of the project goals and constraints						

II. Catalog Description , and Course Prerequisites Evaluations:

Based on your experiences in the course, please respond by circling the most appropriate number. Circle N/A for items that are not applicable, or if you have no opinion.

Catalog Description 1434-1435	Random vectors – Bivariate distributions Joint probability mass function , joint probability density function, Independence , conditional distributions, Expectation, Covariance, Correlation Coefficient, Variance of sum or difference of two random variables and the Moment Generating Functions of Bivariate Random Variables) Random samples – Distribution of sample mean – Law of large numbers – Central limit theorem – Elementary statistical Inference - (estimation theory) –Methods and properties of point estimation - MLE .						
Course Prerequisites:	STAT 202	**Circle One (5=Strongly Agree; 1=Strongly disagree)**					
2a. Do you believe that the catalog description (above) is accurate for this course?		5	4	3	2	1	N/A
2b. Do you believe that the course prerequisites (above) are appropriate for this course?		5	4	3	2	1	N/A
2c. If not, please list any prerequisites you believe are not appropriate for this course.							

III. Textbook(s) and/or Lab Manuals (if applicable) Evaluations:

Textbook(s) and/or Lab Manuals (if applicable):	• **D.C. Montgomery & G. C. Runger. Applied Statistics and Probability. 3rd edition.2003.** • **Probability and Statistics . Schaum's Outline Series.**	**Circle One (5=Strongly Agree; 1=Strongly Disagree)**					
3a. In general, do you believe this to be an appropriate textbook for this course?		5	4	3	2	1	N/A
3b. Was the organization of the textbook appropriate for this course?		5	4	3	2	1	N/A
3c. Was the level of the textbook appropriate for this course?		5	4	3	2	1	N/A

IV. Computer usage (if applicable) Evaluations:

Computer usage (if applicable):		**Circle One (5=Strongly Agree; 1=Strongly Disagree)**					
4a. Was the use of computer well integrated with the course?		5	4	3	2	1	N/A
4b. Was the computer lab adequately equipped with well-maintained and updated computers?		5	4	3	2	1	N/A
4c. Was the computer lab equipped with sufficient number of computers?		5	4	3	2	1	N/A
4d. Were the special software packages (MATLAB, SPSS, C+, FORTRAN, etc) available and accessible?		5	4	3	2	1	N/A
4e. Was adequate technical support available when needed?		5	4	3	2	1	N/A

جامعة المجمعة

كلية العلوم بالزلفي

نموذج تحويل العلامات النهائي من مئوي الى أحرف لطلبة البكالوريوس

الفصل الدراسي	الثاني	١٤٣٤/١٤٣٥
القسم	الرياضيات	رقم المادة	STAT203
استاذ المادة	د. أحمد محمد المعاصري	اســـــم المـــــــادة	Probability I
عدد الطلبة المسجـليـــن	8	عدد الطلبة الغائبين عن التهائي	0
عدد الطلبة النـــاجحين	8	عدد الطلبة الراسبين	0
متوسط الدرجات	3.31	العلامة الدنيا	F
الدرجـة العليـــــا	A +	نسبة النجاح	100.00%

Average	Percentage	SUM	Count	TO	From	Average
	0	0	0	100	95	A+
	0	0	0	94	90	A
	12.5	4.5	1	89	85	B+
	12.5	4	1	84	80	B
	50	14	4	79	75	C+
	12.5	3	1	74	70	C
	0	0	0	69	65	D+
	0	0	0	64	60	D
	12.5	1	1	59	0	F
3.31	100	26.5	8		Total Students	

الرقم	العلامة	التقدير
1	75	C+
2	53	F
3	75	C+
4	70	C
5	75	C+
6	80	B
7	85	B+
8	75	C+
9		
10		
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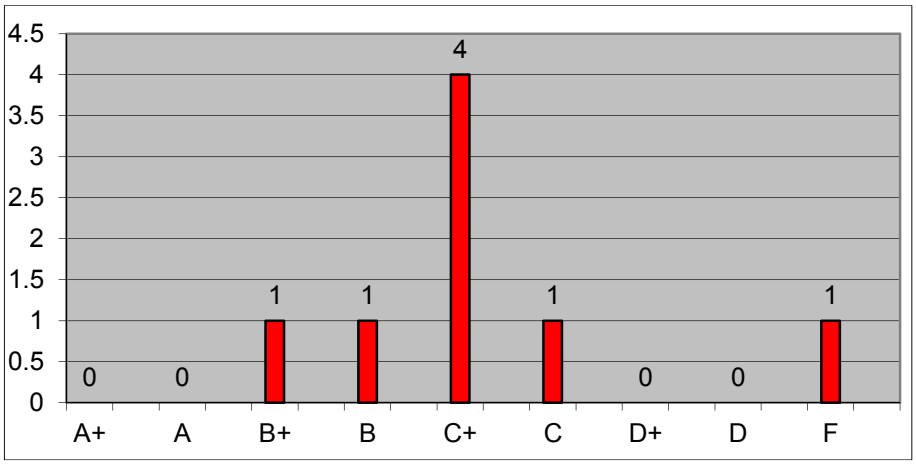
24		



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Student Course Evaluation Form

The purpose of this evaluation is to collect instructor feedback for improving this course and the Mathematics program. Information will also be used for program accreditation purposes.

I. Program Learning Outcomes Evaluations

Course Number/Name	STAT 203 Probability I	Semester	First 1434/1435
Instructor	**Dr. Ahmed Elmoasry**		
Student Name	----------	**Student ID**	----------

The course listed above is designed for students to achieve the following outcomes at a Not At All, Low, Low- Medium, Medium, Medium-High or High level.

Please mark (or type) High (5), Medium-High (4), Medium (3), Low-Medium (2), Low (1) or Not At All (0) indicating the level to which you believe, as an instructor, the students have achieved these outcomes in this course.

Program Learning Outcomes	5	4	3	2	1	0
a1. Apply fundamentals and concepts of mathematics.						
a2. Apply fundamentals and concepts General sciences and Computer skills.						
a3. Realize Social and ethical values.						
b1. Read and construct mathematical arguments and proofs.						
b2. Apply critical thinking skills to solve problems that can be modeled mathematically.						
c1. Work independently and within a team						
c2. Bear responsibility for different situations.						
c3. Realize codes of ethics and their importance.						
d1. Communicate a depth and breadth of mathematical knowledge, both orally and in writing.						
d2. Ability to Organize, connect and communicate mathematical and algorithmic ideas.						
d3. Critically interpret numerical and graphical data.						
e1. Use computer and its applications as an office tool						

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Catalog Description 1434-1435	Random vectors – Bivariate distributions Joint probability mass function , joint probability densty function, Independence , conditional distributions, Expectation, Covariance, Correlation Coefficient, Variance of sum or difference of two random variables and the Moment Generating Functions of Bivariate Random Variables) Random samples – Distribution of sample mean – Law of large numbers – Central limit theorem – Elementary statistical Inference - (estimation theory) –Methods and properties of point estimation - MLE .						
Course Prerequisites:	STAT 202	**Circle One (5=Strongly Agree; 1=Strongly disagree)**					
2a. Do you believe that the catalog description (above) is accurate for this course?		5	4	3	2	1	N/A
2b. Do you believe that the course prerequisites (above) are appropriate for this course?		5	4	3	2	1	N/A
2c. If not, please list any prerequisites you believe are not appropriate for this course.							

III. Textbook(s) and/or Lab Manuals (if applicable) Evaluations:

Textbook(s) and/or Lab Manuals (if applicable):	• **D.C. Montgomery & G. C. Runger. Applied Statistics and Probability. 3rd edition.2003.** • **Probability and Statistics . Schaum's Outline Series.**	**Circle One (5=Strongly Agree; 1=Strongly Disagree)**					
3a. In general, do you believe this to be an appropriate textbook for this course?		5	4	3	2	1	N/A
3b. Was the organization of the textbook appropriate for this course?		5	4	3	2	1	N/A
3c. Was the level of the textbook appropriate for this course?		5	4	3	2	1	N/A

IV. Computer usage (if applicable) Evaluations:

Computer usage (if applicable):		**Circle One (5=Strongly Agree; 1=Strongly Disagree)**					
4a. Was the use of computer well integrated with the course?		5	5	5	2	1	N/A
4b. Was the computer lab adequately equipped with well-maintained and updated computers?		5	4	3	2	1	N/A
4c. Was the computer lab equipped with sufficient number of computers?		5	5	5	2	1	N/A
4d. Were the special software packages (MATLAB, SPSS, C+, FORTRAN, etc) available and accessible?		5	4	3	2	1	N/A
4e. Was adequate technical support available when needed?		5	4	3	2	1	N/A