



**Ministry of Higher Education and Scientific Research
University of Basrah
College of Administration and Economics
Bologna Process Requirements - First and Second Stages for the Academic Year
2025-2026**

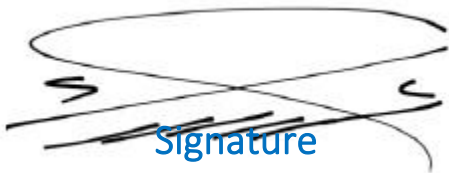


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Date: 22/1/2026



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Director of the Quality Assurance and university performance Department

Date: 25 /1/2026

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Approval of the Dean

Prof. Dr Abdulhusain T. Shibli

UNVIRSIY OF BASRAH



Bachelor's Degree in Statistics

A B C D E F G H I J K L M N O P Q R S T																			
 Republic of Iraq - Ministry of Higher Education and Scientific Research University of Basrah Bachelor's degree in Administration and Economics, Management Information Systems (First cycle) Four years (Nine semesters) - 240 ECTS credits - 1 ECTS = 25 hr Program Curriculum (2024 - 2025)						جمهورية العراق - وزارة التعليم العالي والبحث العلمي جامعة البصرة بكالوريوس إدارة واقتصاد في قسم نظم المعلومات الإدارية (الدورة الأولى) أربع سنوات (تسعة فصول دراسية) - 240 وحدة ائتمانية - كل وحدة ائتمانية = 25 ساعة المنهج الدراسي للعام 2025-2024													
Level	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	CL (hr/wk)	Lect (hr/wk)	Lab (hr/wk)	Pr (hr/wk)	Tut (hr/wk)	Seminar (hr/wk)	Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s) Code
UGI	One	1	BMS-1101	Management Information Systems Basics	أساسيات نظم المعلومات الإدارية	Arabic	3				1	1	3	78	97	175	7.00	C	
		2	BMS-1102	Principles of Statistics	مبادئ الإحصاء	Arabic	3			2			3	78	97	175	7.00	C	
		3	BMS-1103	Principles of Management	مبادئ الإدارة	Arabic	3				1	1	3	78	72	150	6.00	C	
		4	BMS-1104	Principles of Economics	مبادئ الاقتصاد	Arabic	3						3	78	72	150	6.00	S	
		5	UOB-102	Democracy and Human Rights	الديمقراطية وحقوق الإنسان	Arabic	2						3	33	17	50	2.00	B	
		6	UOB-104	Arabic	اللغة العربية	Arabic	2						3	33	17	50	2.00	B	
							16	0	0	2	3	3	18	378	372	750	30.00		
UGI	Two	1	BMS-1215	Management Information Systems	نظم المعلومات الإدارية	Arabic	3				1	1	3	78	97	175	7.00	C	
		2	BMS-1206	Sustainable Information Systems	نظم المعلومات المستدامة	Arabic	3				1	1	3	78	72	150	6.00	C	
		3	BMS-1207	Mathematics for Business Management	الرياضيات لإدارة الأعمال	Arabic	3			2			3	78	72	150	6.00	C	
		4	BMS-1208	Accounting Basics	أساسيات المحاسبة	Arabic	3			2			3	78	72	150	6.00	S	
		5	UOB-103	Computer	الحاسوب	Arabic	1		2				3	48	27	75	3.00	B	
		6	UOB-201	English	اللغة الانكليزية	English	2						3	33	17	50	2.00	B	
							15	0	2	4	2	2	18	393	357	750	30		

Table of Contents

1- Vision and Mission Statement

- 1 Program Specifications
- 2 Program Objectives
- 3 Student Learning Outcomes
- 4 Teaching Staff / Faculty Members
- 5 Credits, Grades and GPA (Grade Point Average)

Vision and Mission Statement:

The Department of Statistics seeks leadership and excellence in education and scientific research by preparing qualified cadres possessing the knowledge and skills necessary to employ statistical methods and modern digital techniques in data analysis and supporting administrative operations and decision-making, contributing to serving society and achieving sustainable development.

The Department of Statistics is committed to providing a distinguished educational and research environment that prepares graduates capable of integrating statistical knowledge with modern information and analytical technologies, developing their analytical and innovative capabilities to meet the requirements of the labor market, and contributing to the development of institutions, enhancing scientific research, and serving society.

1. Program Specification

Programme code:	ESc-BIO	ECTS	240
Duration:	4 levels, 8 Semesters	Method of Attendance:	Full Time

Preparing graduates qualified with knowledge and creativity in the field of management information systems, capable of interacting with the demands of the modern era and technology, and contributing to building Iraqi society on sound scientific and ethical foundations.

Program Objectives

1. Providing an advanced educational environment that adopts academic standards accredited locally and internationally in the specialization of statistics and quantitative sciences.
2. Developing the scientific, research, and creative capabilities of faculty members and students in the fields of statistical modeling and advanced analysis in a way that enhances the quality of the educational process.
3. Enhancing partnership and cooperation with public and private sector institutions by providing statistical consultations and training, qualification, and continuous professional development programs.
4. Establishing a culture of quality, academic accreditation, and continuous improvement in statistical programs, contributing to raising the level of institutional performance.

5. Supporting scientific research and encouraging applied studies that contribute to addressing economic, social, and administrative problems and developing methods of data collection and analysis in institutions.
6. Developing analytical thinking, mathematical modeling, and insight extraction skills to support decision-making and problem-solving using modern statistical software and techniques.
7. Preparing cadres capable of keeping pace with technological developments in data science and labor market requirements, and actively contributing to achieving sustainable development.

Learning Outcomes:

1. Knowledge: Demonstrating knowledge and understanding of the basic and advanced concepts, principles, and theories in the field of statistics, its probabilities, and its various applications.
2. Understanding the concepts and methods related to data collection and analysis, developing statistical models, and using specialized statistical software.
3. Identifying the strengths and weaknesses in the data and statistical models used, while indicating modern trends and developments and the role of statistics and data science in supporting decision-making and achieving institutional goals.
4. Clarifying the accuracy and nature of contemporary issues related to statistical analysis and mathematical modeling and its multiple areas of use in various sectors.

Skills:

- 1- Innovating statistical and creative solutions and modeling applications and intelligent data analysis that contribute to solving complex problems and increasing the effectiveness and efficiency of the decision-making process in various sectors and related supporting sciences.
- 2- Developing effective communication skills to translate and convey statistical results and conclusions to non-specialists, and teamwork and dealing with beneficiaries and decision-makers efficiently.
- 3- Developing statistical and analytical models and systems that meet the needs of institutions in the local and regional labor market with high quality.
- 4- Dealing with scientific and contemporary methods and techniques in experimental design and field surveys and applying appropriate, effective, and efficient statistical analyses.
- 5- Using modern software techniques (such as R, Python, and SPSS) and their applications in the field of statistics and big data analysis efficiently.
- 6- Employing database management, organization, and administration skills to retrieve and process them statistically efficiently when needed.

7- Accomplishing assigned tasks and participating in statistical and research work teams and leading them effectively in accordance with legal rules, ethical and professional standards, controls of scientific integrity, and data privacy.

Graduate Specifications of the Program:

1. Using statistical methods and modeling to solve various problems and challenges.
2. Managing and applying statistical analysis tools with their various components in the work environment.
3. Analyzing data and designing field surveys, experiments, and statistical databases.
4. Using advanced statistical software (such as R, Python, and SPSS) in institutions according to international standards.
5. Employing statistical models and predictive analysis in supporting evidence-based decision-making.
6. Using statistical analysis to support administrative, financial, marketing, research, and other operations.
7. Dealing with decision support systems and big data at all administrative and planning levels.
8. Analyzing data and statistical problems in institutions and proposing appropriate solutions and mechanisms to address them.
9. Self-management, individual initiative, continuous learning, and development of academic and professional skills to keep pace with modern developments in statistics.
10. Effective use of information and communication technology and modern software in the field of data analysis applications.
11. Communication, influence, and conveying statistical outputs and results and interpreting them for non-specialists and presenting them using appropriate visual means and methods.
12. Working as an effective member or leader within a work team, managing time efficiently, preparing high-quality statistical reports, and presenting distinguished illustrative presentations.

1. Credits, Grading and GPA

Credits

Basrah University is following the Bologna Process with the European Credit Transfer System (ECTS) credit system. The total degree program number of ECTS is 240, 30 ECTS per semester. 1 ECTS is equivalent to 25 hrs student workload, including structured and unstructured workload.

Grading

Before the evaluation, the results are divided into two subgroups: pass and fail. Therefore, the results are independent of the students who failed a course. The grading system is defined as follows:

GRADING SCHEME				
Group	Grade		Marks (%)	Definition
Successful Group (50 - 100)	A - Excellent		90 - 100	Outstanding Performance
	B - Very Good		80 - 89	Above average with some errors
	C – Good		70 - 79	Sound work with notable errors
	D - Satisfactory		60 - 69	Fair but with major shortcomings
	E - Sufficient		50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail		(45-49)	More work required but credit awarded
	F – Fail		(0-44)	Considerable amount of work required
Note:				
Number Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.				

Calculation of the Cumulative Grade Point Average (CGPA)

The CGPA is calculated by the summation of each module score multiplied by its ECTS, all are divided by the program total ECTS.

CGPA of a 4-year B.Sc. degree:

$$\text{CGPA} = [(1^{\text{st}} \text{ module score} \times \text{ECTS}) + (2^{\text{nd}} \text{ module score} \times \text{ECTS}) + \dots] / 240$$

Curriculum/Modules

Level	Semester	No.	Module Code	Module Name in English	Language	Exam hr/sem	USSWL hr/sem	Module Type
UGI	One	1	ST1101	Principles of statistics	Arabic	3	122	C
		2	ST1102	Differentiation	English	3	122	C
		3	ST1103	Principles of Business Management	Arabic	3	87	B
		4	ST1104	Principles of Economics	Arabic	3	87	B
		5	UN115	English language	English	3	17	S
	Two	1	ST1201	Statistics	Arabic	3	122	C
		2	ST1202	Integration	English	3	122	C
		3	ST1203	Principles of Accounting	Arabic	3	87	B
		4	UN124	Fundamentals of Computer Science	Arabic	3	52	B
		5	UN125	Arabic Language	Arabic	3	17	S
		6	UN126	Human Right & Democracy	Arabic	3	17	S
UGII	Three	1	STAT2301	Principles of Probability	English	3	122	C
		2	STAT2302	Surveys and Sampling Methods	Arabic	3	112	B
		3	STAT2303	Linear Algebra	Arabic	3	112	B
		4	UN234	Fundamentals of Computer Science	Arabic	3	52	S
		5	UN235	Baath Party crimes in Iraq	Arabic	3	17	B
		6	UN236	Arabic Language	Arabic	3	17	S
	Four	1	STAT2401	Probability Distributions	English	3	122	C
		2	STAT2402	Differential equations	Arabic	3	112	B
		3	STAT2403	Language Programing "Matlab" or "R"	Arabic	3	37	B
		4	STAT2404	Economic Statistics	Arabic	3	77	B
		5	STAT2405	Big Data Analytics	Arabic	3	52	B
		6	UN246	English language	English	3	17	S



Table of Contents

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2. Undergraduate Modules 2024-2025
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1. Overview

This catalogue is about the courses (modules) given by the program of Department of Management Information Systems to gain the Bachelor's degree in Management Information Systems

The program delivers (48) Modules with (6000) total student workload hours and 240 total ECTS.
The module delivery is based on the Bologna Process.

Undergraduate Courses 2025 -2024

Module 1

Code	Course/Module Title	ECTS	Semester
BMIS-1101	Management Information Systems Basics	7.00	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USSWL (hr/w)
3	1	78	97
Description			
This section includes a description of the module, 100-150 words			

Module 2

Code	Course/Module Title	ECTS	Semester
BMIS-1102	Principles of Statistics	7.00	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2	64	86
Description			
This section includes a description of the module, 100-150 words			

Module 3

Code	Course/Module Title	ECTS	Semester
BMIS-1103	Principles of Management	6.00	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USSWL (hr/w)
3	1	78	72
Description			
This section includes a description of the module, 100-150 words			

Module 4

Code	Course/Module Title	ECTS	Semester
BMIS-1104	Principles of Economics	6.00	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	1	78	98
Description			
This section includes a description of the module, 100-150 words			

Module 5

Code	Course/Module Title	ECTS	Semester
UOB-102	Democracy and Human Rights	2	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	0	33	17
Description			
This section includes a description of the module, 100-150 words			

Module 6

Code	Course/Module Title	ECTS	Semester
UOB-104	Arabic	2	1
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2		33	17
Description			
This section includes a description of the module, 100-150 words			

Module 7

Code	Course/Module Title	ECTS	Semester
BMIS-1201	Management Information Systems	7	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USSWL (hr/w)
3	1	79	121
Description			
This section includes a description of the module, 100-150 words			

Module 8

Code	Course/Module Title	ECTS	Semester
BMIS-1202	Sustainable Information Systems	6.00	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	1	78	79
Description			
This section includes a description of the module, 100-150 words			

Module 9

Code	Course/Module Title	ECTS	Semester
BMIS-1203	Mathematics for Business Management	6.00	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	2	64	86
Description			
This section includes a description of the module, 100-150 words			

Module 10

Code	Course/Module Title	ECTS	Semester
BMIS-1204	Accounting Basics	6	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	1	150	72
Description			

This section includes a description of the module, 100-150 words

Module 11

Code	Course/Module Title	ECTS	Semester
UOB-103	Computer	3.00	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USSWL (hr/w)
1	2	48	27
Description			
This section includes a description of the module, 100-150 words			

Module 12

Code	Course/Module Title	ECTS	Semester
UOB-101	English	2.00	2
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USSWL (hr/w)
2	2	33	17
Description			
This section includes a description of the module, 100-150 words			

Second stage**Module 1**

Code	Course/Module Title	ECTS	Semester
BMIS-2101	Marketing Management	6	3
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	Academic Advising Lecture/Session	150	6.8
Description			

This section includes a description of the module, 100-150 word			
Module 2			
Code	Course/Module Title	ECTS	Semester
BMIS-2102	Human Resources Management	5	3
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	Academic Advising Lecture/Session	125	5
Description			
This section includes a description of the module, 100-150 words			

Module 3

Code	Course/Module Title	ECTS	Semester
BMIS-2103	Organizational Theory and Behavior	5	3
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	Academic Advising Lecture/Session	125	5
Description			
This section includes a description of the module, 100-150 word			

Module 4

Code	Course/Module Title	ECTS	Semester
BMIS-2104	Fundamentals of Quantitative Methods and SPSS Applications	4	3
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)

3	Academic Advising Lecture/Session	100	3
Description			
This section includes a description of the module, 100-150 word			

Module 5

Code	Course/Module Title	ECTS	Semester
BMIS-2105	Programming Basics	5	3
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
4	Academic Advising Lecture/Session	125	4
Description			
This section includes a description of the module, 100-150 word			

Module 6

Code	Course/Module Title	ECTS	Semester
UOB-203	Computer 2	3	3
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	Academic Advising Lecture/Session	75	1.8
Description			
This section includes a description of the module, 100-150 word			

Module 6

Code	Course/Module Title	ECTS	Semester
UOB-201	English 2	2	3
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	Academic Advising Lecture/Session	50	1
Description			
This section includes a description of the module, 100-150 word			

Module 7

Code	Course/Module Title	ECTS	Semester
BMIS-2201	Marketing Information Systems	5	4
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	Academic Advising Lecture/Session	125	5
Description			
This section includes a description of the module, 100-150 word			

Module 8

Code	Course/Module Title	ECTS	Semester
BMIS-2202	Human Resource Information Systems	5	4
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	Academic Advising Lecture/Session	125	5
Description			
This section includes a description of the module, 100-150 word			

Module 9

Code	Course/Module Title	ECTS	Semester
BMIS-2203	Information Technology Management	5	4
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	Academic Advising Lecture/Session	125	5
Description			

This section includes a description of the module, 100-150 word

Module 10

Code	Course/Module Title	ECTS	Semester
BMIS-2204	E-Commerce	6	4
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
3	Academic Advising Lecture/Session	150	6.8
Description			
This section includes a description of the module, 100-150 word			

Module 11

Code	Course/Module Title	ECTS	Semester
BMIS-2205	Paython Programming	5	4
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
4	Academic Advising Lecture/Session	125	4
Description			
This section includes a description of the module, 100-150 word			

Module 12

Code	Course/Module Title	ECTS	Semester
UOB-204	Arabic 2	2	4
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	Academic Advising Lecture/Session	50	1
Description			
This section includes a description of the module, 100-150 word			

Module 12

Code	Course/Module Title	ECTS	Semester
UOB-205	Baath Party Crimes	2	4
Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	Academic Advising Lecture/Session	50	1
Description			
This section includes a description of the module, 100-150 word			

Module Information		
معلومات المادة الدراسية		
Module Title	Fundamentals of Computer Science	Module Delivery
Module Type	Core	☒ Theory ☒ Lecture
Module Code	UN124	

ECTS Credits	3			☐ Lab ☐ Tutorial ☒ Practical ☐ Seminar
SWL (hr/sem)	45			
Module Level	Second Class	Semester of Delivery		
Administering Department		College	Administration and Economics	
Module Leader	Rihab Ahmed Abd	e-mail	rihab.ahmed@uobasrah.edu.iq	
Module Leader's Acad. Title	Assistant Lecturer	Module Leader's Qualification		masters
Module Tutor	/	e-mail	/	
Peer Reviewer Name	Name	e-mail	E-mail	
Scientific Committee Approval Date	8-8-2024	Version Number	1.0	

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	None
Co-requisites module	None	Semester	None

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Objectives أهداف المادة الدراسية	This course aims to equip students with knowledge of computer principles and statistical software relevant to their academic level. It covers: Knowledge of computer systems and how to use required software programs; and familiarity with Windows, Word, and Excel.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. Students must have a basic understanding of computer principles. 2. Students must be trained to use computers and statistical software in advanced stages. 3. Students must be trained and introduced to statistical software and its relationship to data and statistical results.
Indicative Contents المحتويات الإرشادية	1. Developing students' skills to reach a level that enables them to grasp the fundamental concepts of the subject. 2. Introducing students to computers and statistical software. 3. Enhancing students' computer skills, given their importance during their studies and beyond, including after graduation.

Learning and Teaching Strategies

استراتيجيات التعليم والتعلم

Strategies	1- Printed lectures 2- Video lectures 3- Course materials provided by the instructor 4- Practical application of the material on computers in designated labs
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Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ أسبوعاً			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب	45	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب اسبوعياً	3
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل		Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب اسبوعياً	
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل			

Module Evaluation تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	1	10% (10)	4 and 8	During the semester
	Assignments	1	10% (10)	5 and 12	During the semester
	Report	1	10% (10)	10	During the semester
Summative assessment	Midterm Exam	1hr	20% (20)	14	During the semester
	Final Exam	2hr	50% (50)	16	All Semester
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المناهج الاسبوعي المخطط	
	Material Covered
Week 1	Computer components, how to turn it on and off, an introduction to the Windows operating system
Week 2	Introduction to Microsoft Word and how to type using the keyboard
Week 3	Introduction to Microsoft Excel, a detailed explanation of the program
Week 4	Defining functions and how to write their commands in the formula bar, modifying functions
Week 5	Sum function, rate function
Week 6	Relative reference, absolute reference, MAX function, MIN function
Week 7	Creating a table, adding a title to the table, adding and deleting rows and columns, formatting the table, and printing the table
Week 8	Explanation of the HOME menu and its sub-tabs
Week 9	Conditional formatting of a table
Week 10	The IF logical function
Week 11	Quiz exam + explanation of the mean function
Week 12	Sum product function, absolute value function
Week 13	Square root function, conditional counting function
Week 14	Multiplication function, sum of squares function
Week 15	Medium function, mode function, quartile function, standard deviation function
Week 16	Monthly exam

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	Material prepared by the course instructor	Yes
Required Texts		Yes
Required Texts		Yes
Required Texts		Yes
Required Texts		
Recommended Texts		
Websites	Excel for Beginners, by Mahmoud Sayed	Yes
Websites	Material prepared by the course instructor	Yes

Grading Scheme مخطط الدرجات				
Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required
Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.				

Module Information				
معلومات المادة الدراسية				
Module Title	Surveys and Sampling Methods		Module Delivery	
Module Type	Core		☒ Theory ☒ Lecture Lab ☐ ☐ Tutorial Practical ☒ Seminar ☐	
Module Code	UN124			
ECTS Credits	3			
SWL (hr/sem)	60			
Module Level		Second Class	Semester of Delivery	
Administering Department			College	Administration and Economics
Module Leader	Rihab Ahmed Abd		e-mail	rihab.ahmed@uobasrah.edu.iq
Module Leader's Acad. Title		Assistant Lecturer	Module Leader's Qualification	
			masters	
Module Tutor	/		e-mail	/

Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	8-8-2024	Version Number	1.0

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	None
Co-requisites module	None	Semester	None

Module Aims, Learning Outcomes and Indicative Contents	
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	This course aims to equip students with knowledge of computer principles and statistical software relevant to their academic level. It covers: Knowledge of computer systems and how to use required software programs; and familiarity with Windows, Word, and Excel.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	- Keeping abreast of developments in the field of statistics. - Engaging with and adapting new and useful information. 1- Identifying the types of statistical samples and methods for drawing them from a population. 2- This course aims to teach students the fundamental concepts of sampling methods. 3- Teaching students how to estimate the parameters of a study population when the parameters are unknown, using sample estimations.
Indicative Contents المحتويات الإرشادية	The ability to understand and apply statistics. The ability to handle statistical challenges and problems. Building a strong statistical and quantitative foundation for students in the statistics department.

Learning and Teaching Strategies استراتيجيات التعليم والتعلم
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Strategies	1- Printed lectures
	2- Video lectures
	3- Course materials provided by the instructor

Student Workload (SWL) الحمل الدراسي للطلاب محسوب لـ ١٥ أسبوعاً			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطلاب	60	Structured SWL (h/w) الحمل الدراسي المنتظم للطلاب اسبوعياً	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطلاب خلال الفصل		Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطلاب اسبوعياً	
Total SWL (h/sem) الحمل الدراسي الكلي للطلاب خلال الفصل			

Module Evaluation تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	1	10% (10)	4 and 8	During the semester
	Assignments	1	10% (10)	5 and 12	During the semester
	Report	1	10% (10)	10	During the semester
Summative assessment	Midterm Exam	1hr	20% (20)	14	During the semester
	Final Exam	2hr	50% (50)	16	All Semester
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
المنهاج الاسبوعي المخطط	
	Material Covered
Week 1	Basic concepts/comprehensive enumeration and sampling, the basic idea of sampling, the basic steps in sample design and questionnaire design
Week 2	How to choose a simple random sample
Week 3	Estimating the variance of the population mean and total
Week 4	Confidence limits for the population mean and variance
Week 5	Estimating the ratio
Week 6	Choosing the sample size to estimate the population mean and variance
Week 7	"What is stratified sampling?"
Week 8	Estimate of the average and total population stratification
Week 9	exam day
Week 10	How to choose a systematic sample; estimating the population mean and total
Week 11	Estimating the variance of the population mean and total, estimating the sample size
Week 12	Estimating the R ratio for a simple random sample
Week 13	Estimating the mean and total using ratios in a stratified sample
Week 14	Single-stage cluster random sampling
Week 15	Estimating the arithmetic mean and sum; estimating the variance of the arithmetic mean
Week 16	monthly exam

Learning and Teaching Resources		
مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	Material prepared by the course instructor	Yes
Required Texts	The Book of Samples (Dr. Walid Abdul-Hamid Nouri, Abdul-Majid Hamza Al-Nasser)	Yes
Required Texts		Yes
Required Texts		Yes

Required Texts		
Recommended Texts		
Websites	The Book of Samples (Dr. Walid Abdul-Hamid Nouri, Abdul-Majid Hamza Al-Nasser)	Yes
Websites	Material prepared by the course instructor	Yes

Grading Scheme				
مخطط الدرجات				
Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required
Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.				

Module Information		
معلومات المادة الدراسية		
Module Title	Differential equations	Module Delivery
Module Type	B	☒ Theory
Module Code	STAT2402	☒ Lecture

ECTS Credits	7		Lab ☐	
SWL (hr/sem)	175		☐ Tutorial Practical ☒ Seminar ☐	
Module Level	SECOND CLASS	Semester of Delivery	2	
Administering Department	Department Statistics	College	Administration and economics	
Module Leader	A Abdulsamad ashour Wafa	e- mail	Wafaa.ashoor@uobasrah	
Module Leader's Acad. Title	assistant professor	Module Leader's Qualification	master	
Module Tutor	nothing	e-mail		
Peer Reviewer Name	Name	e-mail	E-mail	
Scientific Committee Approval Date	29-7-2026	Version Number	1.0	

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	None
Co-requisites module	None	Semester	None

Module Aims, Learning Outcomes and Indicative Contents	
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	Equip students with the skills to apply various integration techniques to solve ordinary differential equations. 1- Enhance students' ability to formulate equations when solutions exist. 2- Solve linear differential equations based on the nature of their roots. 3-
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	The learning outcomes of the Differential Equations course aim to enable students to understand, classify, and solve ordinary and partial differential equations, and to apply them to accurately model and interpret engineering, physical, and biological phenomena.
Indicative Contents المحتويات الإرشادية	The indicative content of the Differential Equations course includes the study of fundamental mathematical concepts, the classification of equations, and analytical solution methods for ordinary and partial differential equations.

Learning and Teaching Strategies استراتيجيات التعليم و التعلم
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Strategies	1- Cooperative concept mapping teaching strategy. 2- Brainstorming teaching strategy. 3- Observation chain teaching strategy.
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Student Workload (SWL) الحمل الدراسي للطلاب محسوب لـ ١٥ أسبوعاً			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطلاب	63	Structured SWL (h/w) الحمل الدراسي المنتظم للطلاب اسبوعياً	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطلاب خلال الفصل	112	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطلاب اسبوعياً	7
Total SWL (h/sem) الحمل الدراسي الكلي للطلاب خلال الفصل	175		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	1	10% (10)	4 and 8	During the semester
	Assignments	1	10% (10)	5 and 12	During the semester
	Report	1	10% (10)	10	During the semester
Summative assessment	Midterm Exam	1hr	20% (20)	14	During the semester
	Final Exam	2hr	50% (50)	16	All Semester
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
المنهاج الاسبوعي المخطط	
week	Material Covered
Week 1	1) Order and degree of a differential equation
Week 2	2) General solution and particular solution
Week 3	3) Types of differential equations
Week 4	4) Formation of differential equations
Week 5	5) repeated integration
Week 6	6) Solving ordinary differential equations by separation of variables
Week 7	7) Solving homogeneous differential equations
Week 8	8) Solving exact differential equations
Week 9	9) Integrating factor
Week 10	10) Solving linear differential equations
Week 11	11) Bernoulli's equation
Week 12	12) Linear equations with constant coefficients
Week 13	13) Complementary function and particular solution
Week 14	14) Variation of parameters and Method of coefficients

Week 15	15) Final exam
Week 16	

Learning and Teaching Resources		
And teaching Learning sources		
	Text	Available in the Library?
Required Texts	Solving Ordinary Differential Equations for Students of the College of Administration and Economics	Yes
Required Texts		Yes
Required Texts		Yes
Required Texts		Yes
Required Texts		
Recommended Texts		
Websites	Differential Equations/ shoum series	Yes
Websites		Yes

Grading Scheme				
مخطط الدرجات				
Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
	FX – Fail	راسب (فيد المعالجة)	(45-49)	More work required but credit awarded

Fail Group (0 – 49)	F – Fail	راسب	(0-44)	Considerable amount of work required

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

Module Information				
معلومات المادة الدراسية				
Module Title	statistics		Module Delivery	
Module Type	Core		☒ Theory	
Module Code	012ST1		☒ Lecture	
ECTS Credits	9		Lab ☐	
SWL (hr/sem)	200		☐ Tutorial	
			Practical ☒	
			Seminar ☐	
Module Level	Frist Class	Semester of Delivery	2	
Administering Department	Statistics Department	College	Administration and Economics	
Module Leader	Shaymaa Qasim Mohsin		e-mail	shaymaa.qasim@uobasrah.edu.iq
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification	masters	
Module Tutor		e-mail		
Peer Reviewer Name	Name	e-mail	E-mail	
Scientific Committee Approval Date		Version Number		

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	None

Co-requisites module	None	Semester	None
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Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	1-Providing the learner with statistical skills that enable him to prepare statistical studies and reports by adopting statistical methods and indicators. 2- The statistics subject aims to develop methods and means of thinking and how to deal with statistical problems and find appropriate solutions that enable him to make the appropriate decision.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1-Understand the basic concepts and principles of statistics, including data types, measurement scales, and sampling methods. 2-Interpret and analyze data using measures of dispersion . 3-Apply appropriate statistical techniques to analyze relationships between variables, including correlation analysis and simple linear regression. 4-Understand and interpret the results of statistical software outputs and graphical representations.
Indicative Contents المحتويات الإرشادية	1. Empowering cognitive skills for the basics of statistics and its application areas. 2. Introducing the student to data collection methods and methods of tabulating and classifying them. 3. Introducing the student to tabular and graphical data presentation methods to obtain the information necessary for analysis and making appropriate decisions. 4. Developing the student's skills to reach a level that possesses the ability to analyze and interpret statistical data in a manner consistent with reality..

Learning and Teaching Strategies استراتيجيات التعليم والتعلم
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Strategies	The main strategy followed in preparing this unit is to encourage students to develop their skills by learning about statistical methods and approaches in analyzing natural and unnatural phenomena and preparing reports on scientific bases through classrooms and interactive lessons and looking at types of simple experiments that include some sampling activities that interest students in their field of specialization
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Student Workload (SWL) الحمل الدراسي للطلاب محسوب لـ ١٥ أسبوعاً			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطلاب	78	Structured SWL (h/w) الحمل الدراسي المنتظم للطلاب اسبوعياً	5
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطلاب خلال الفصل	122	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطلاب اسبوعياً	
Total SWL (h/sem) الحمل الدراسي الكلي للطلاب خلال الفصل	200		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	1	10% (10)	4 and 8	During the semester
	Assignments	1	10% (10)	5 and 12	During the semester
	Report	1	10% (10)	10	During the semester
Summative assessment	Midterm Exam	1hr	20% (20)	14	During the semester
	Final Exam	2hr	50% (50)	16	All Semester
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
المنهاج الاسبوعي المخطط	
	Material Covered
Week 1	Measures of dispersion: Range, interquartile deviation
Week 2	Measures of dispersion: standard deviation, variance
Week 3	Dispersion coefficients based on range, interquartile deviation, and mean deviation
Week 4	Dispersion coefficients: coefficient of variation, standard score
Week 5	Moments
Week 6	Korrosion
Week 7	Squatness
Week 8	Simple linear correlation coefficient,
Week 9	Partial correlation coefficient
Week 10	Multiple correlation coefficient
Week 11	Spearman's rank correlation coefficient
Week 12	Coupling coefficient,
Week 13	Coefficient of agreement
Week 14	Simple linear regression
Week 15	Discussion to prepare for the final exam
Week 16	Preparatory week before the final exam

Learning and Teaching Resources		
مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	The Book of Principles of Statistics by Dr.Khashi Al Raw	Yes
Required Texts	the book of Principles of Statistics by Dr.Khashi Al Raw	Yes
Required Texts	Dr. Abdel Aziz Fahmy Heikal ,Principles of statistical methods	Yes
Required Texts		Yes
Required Texts		

Recommended Texts		
Websites		Yes
Websites		Yes

Grading Scheme				
مخطط الدرجات				
Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required
Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.				

Module Information		
معلومات المادة الدراسية		
Module Title	Principles of statistics	Module Delivery
Module Type	Core	☑ Theory
Module Code	ST1101	

ECTS Credits	9	☒ Lecture	
SWL (hr/sem)	200	Lab ☐ Tutorial ☐ Practical ☒ Seminar ☐	
Module Level	Frist Class	Semester of Delivery	1
Administering Department	Statistics Department	College	Administration and Economics
Module Leader	Shaymaa Qasim Mohsin	e-mail	shaymaa.qasim@uobasrah.edu.iq
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification	masters
Module Tutor		e-mail	
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date		Version Number	

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	None
Co-requisites module	None	Semester	None

Module Aims, Learning Outcomes and Indicative Contents	
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	1-Providing the learner with statistical skills that enable him to prepare statistical studies and reports by adopting statistical methods and indicators. 2- The statistics subject aims to develop methods and means of thinking and how to deal with statistical problems and find appropriate solutions that enable him to make the appropriate decision.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1-Understand the basic concepts and principles of statistics, including data types, measurement scales, and sampling methods. 2-Interpret and analyze data using descriptive statistical measures, such as measures of central tendency (mean, median, mode) 3-Apply appropriate statistical techniques to analyze relationships between variables 4-Understand and interpret the results of statistical software outputs and graphical representations.
Indicative Contents المحتويات الإرشادية	1. Empowering cognitive skills for the basics of statistics and its application areas. 2. Introducing the student to data collection methods and methods of tabulating and classifying them. 3. Introducing the student to tabular and graphical data presentation methods to obtain the information necessary for analysis and making appropriate decisions. 4. Developing the student's skills to reach a level that possesses the ability to analyze and interpret statistical data in a manner consistent with reality..

Learning and Teaching Strategies استراتيجيات التعليم والتعلم
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Strategies	The main strategy followed in preparing this unit is to encourage students to develop their skills by learning about statistical methods and approaches in analyzing natural and unnatural phenomena and preparing reports on scientific bases through classrooms and interactive lessons and looking at types of simple experiments that include some sampling activities that interest students in their field of specialization
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Student Workload (SWL) الحمل الدراسي للطلاب محسوب لـ ١٥ أسبوعاً			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطلاب	78	Structured SWL (h/w) الحمل الدراسي المنتظم للطلاب اسبوعياً	5
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطلاب خلال الفصل	122	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطلاب اسبوعياً	
Total SWL (h/sem) الحمل الدراسي الكلي للطلاب خلال الفصل	200		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	1	10% (10)	4 and 8	During the semester
	Assignments	1	10% (10)	5 and 12	During the semester
	Report	1	10% (10)	10	During the semester
Summative assessment	Midterm Exam	1hr	20% (20)	14	During the semester
	Final Exam	2hr	50% (50)	16	All Semester
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
المنهاج الاسبوعي المخطط	
	Material Covered
Week 1	Definition of statistics and its importance
Week 2	Development of the concept of statistics, its types and areas of application
Week 3	Data collection method and methods of data collection
Week 4	Types of statistical samples and all sampling methods
Week 5	Sampling method and common errors in data collection
Week 6	Data classification and tabulation
Week 7	Tabular presentation of data (frequency distribution)
Week 8	Geometric presentation (graphs, statistical circle and statistical rectangle)
Week 9	Measures of central tendency for grouped data Arithmetic mean
Week 10	Measures of central tendency for ungrouped data Arithmetic mean
Week 11	Measures of central tendency Weighted arithmetic mean, harmonic mean
Week 12	Measures of central tendency Squared mean, geometric
Week 13	Measures of central tendency for grouped data Mode, median
Week 14	Measures of central tendency for ungrouped data Mode, median
Week 15	The relationship between measures of central tendency
Week 16	Preparatory week before the final exam

Learning and Teaching Resources		
مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	The Book of Principles of Statistics by Dr.Khashi Al Raw	Yes
Required Texts	the book of Principles of Statistics by Dr.Khashi Al Raw	Yes
Required Texts	Dr. Abdel Aziz Fahmy Heikal ,Principles of statistical methods	Yes

Required Texts		Yes
Required Texts		
Recommended Texts		
Websites		Yes
Websites		Yes

Grading Scheme				
مخطط الدرجات				
Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 – 100	Outstanding Performance
	B - Very Good	جيد جدا	80 – 89	Above average with some errors
	C - Good	جيد	70 – 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 – 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 – 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required
Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.				