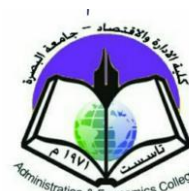




Ministry of Higher Education and Scientific Research
Republic of Iraq

University: University Of Basrah
College: College of Administration and Economics
Department : **Department of statistic**



Year : 2021-2022

Semester : First

SYLLABUS: < **PRINCIPLES OF STATISTIC** >

INSTRUCTOR: LECTURER NAME: **ASMAA AYOUB YAQOUB**

Phone: PHONE NO.

Hours: 4

Office: university of basrah

Home Page:

<https://faculty.uobasrah.edu.iq/faculty/1258>

Email: asmaa.yaqoob@uobasrah.edu.iq

COURSE OVERVIEW

This Course Specification Provides a concise summary of the main features of the program & the learning out comes that is a typical student might reasonably be expected to achieve & demonstrate if he/she take full advantage of the learning opportunities that are provided. It should be cross-referenced with the program specification

GOALS AND OBJECTIVES

- Teaching basic concepts of statistics
- Knowing the methods of data collection and studying the most important statistical measures related to data analysis –
- Interpret data, relationships, and how to make the right decision

TEXTBOOK AND READINGS

- [1] Descriptive statistics, Sharaf El-Din Khalil. Network for Research and Economic Studies
- [2] Principles of Statistics, Ahmed Abdel-Sami', 2008, Dar Al-Bidaa for printing and publishing
- [3]

COURSE ASSESSMENTS

The course grade (**100**) will be based on the following elements:

	Points
Exams	80
Reading Checks	80
Participation	??????
Attendance	10
Assignments	10

COURSE DESCRIPTION AND ASSIGNMENT SCHEDULE

This **NO.4** -credit hour course is 15 weeks long. You should invest **NO.** hours every week in this course.

WK	DATE	TOPIC	READING	ASSIGNMENT
1		Scales of dispersion: range		
2		vernal deviation		
3		standard deviation		
4		coefficient of variation and standard degree		
5		determination		
6		skewness		Assignment 1
7		flatness		
8		simple linear correlation		
9		Spearman's Rank Correlation		
10		Box plot chart		Assignment 2
11		coupling coefficient		
12		compatibility factor		
13		linear regression		
14		simple linear regression		Assignment 3
15	<i>Mid Exam</i>			first semester exam

Is it possible to develop the curriculum <within the teaching authority 20%> to include vocabulary that serves sustainability	
1- Yes, it is possible (point an appropriate aspect)	1- Fighting poverty 2- No hunger 3- Developing life-long learning and education 4- Green chemistry 5- Sustainable development 6- Water

	<p>purification 7- Water recycling for agriculture 8- Creativity and production -9- Sustainable energy (wind Sun and organic energy) -10- Environmental development- 11- pollution measurement -12- child care program-13- public health development program-14- measuring the efficiency of health institutions-15- gender equality-16- non-extremism- 17- drug efficiency 18- Food efficiency for infants, children, adults and the elderly -19- Efficiency of the overall environment -20- Waste recycling-21- Heavy water disposal mechanisms-22- Literacy program- 23- Mechanisms for preserving biodiversity-24- Mechanisms for spreading peace and justice in society- 25- Developing life in the seas and oceans-26- Studying the level of university education and the mechanisms for its development-27- Mechanisms for developing the local industry in Iraq-28- Mechanisms for developing infrastructure in Iraq-29-Reducing racial discrimination in all its forms-30-The basics of sustainable cities- 31- Mechanisms to reduce consumption and increase production- 32- Mechanisms to provide job opportunities for all-33- Study aspects of developing green areas-34- Study climatic phenomena in the country-35- Mechanisms for obtaining good health and well-being.</p>
<p>2- Suggest aspect that serves sustainability</p>	



Ministry of Higher Education and Scientific Research
 Republic of Iraq

University: University Of Basrah
 College: College of Administration and Economics
 Department : **Department of statistic**



Year : 2021-2022

Semester : First

SYLLABUS: DEMOGRAPHY >

INSTRUCTOR: *LECTURER NAME: ASMAA AYOOB YAQOOB*

Phone: *PHONE NO.*

Hours: *2*

Office: *university of basrah*

Home Page:

<https://faculty.uobasrah.edu.iq/faculty/1258>

Email: *asmaa.yaqoob@uobasrah.ed.iq*

COURSE OVERVIEW

This Course Specification Provides a concise summary of the main features of the program & the learning out comes that is a typical student might reasonably be expected to achieve & demonstrate if he/she take full advantage of the learning opportunities that are provided. It should be cross-referenced with the program specification

GOALS AND OBJECTIVES

- The course aims to study everything related to population, marriage, divorce, deaths, births, population projections

TEXTBOOK AND READINGS

[1] Population census Dr. Abdul-Hussein Al-Zayni

COURSE ASSESSMENTS

The course grade (**100**) will be based on the following elements:

	Points
Exams	80
Reading Checks	80

Participation	??????
Attendance	10
Assignments	10

COURSE DESCRIPTION AND ASSIGNMENT SCHEDULE

This NO.4 -credit hour course is 15 weeks long. You should invest NO. hours every week in this course.

WK	DATE	TOPIC	READING	ASSIGNMENT
1		Fertility Metrics		
2		Fertility Metrics		
3		Reproduction and replacement metrics		
4		Reproduction metrics		
5		Marriage Standards		
6		Divorce metrics		
7		Disease metrics and statistics		
8		Mortality metrics		
9		infant mortality metrics		
10		Editing mortality data		
11		Birth data modification		
12		life tables		
13		Life tables exercises		
14		The role of demographic data in planning and development		
15	<i>Mid Exam</i>			

Is it possible to develop the curriculum <within the teaching authority 20%> to include vocabulary that serves sustainability

1- Yes, it is possible (point an appropriate aspect)	1- Fighting poverty 2- No hunger 3- Developing life-long learning and education 4- Green chemistry 5- Sustainable development 6- Water purification 7- Water recycling for agriculture 8- Creativity and production -9- Sustainable energy (wind Sun and organic energy) -10- Environmental development- 11- pollution measurement -12- child care program-13- public health development program-14- measuring the efficiency of health institutions-15- gender equality-16- non-extremism-
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	<p>17- drug efficiency 18- Food efficiency for infants, children, adults and the elderly -19- Efficiency of the overall environment -20- Waste recycling-21- Heavy water disposal mechanisms-22- Literacy program-23- Mechanisms for preserving biodiversity-24- Mechanisms for spreading peace and justice in society- 25- Developing life in the seas and oceans-26- Studying the level of university education and the mechanisms for its development-27- Mechanisms for developing the local industry in Iraq-28- Mechanisms for developing infrastructure in Iraq-29-Reducing racial discrimination in all its forms-30-The basics of sustainable cities- 31- Mechanisms to reduce consumption and increase production- 32- Mechanisms to provide job opportunities for all-33- Study aspects of developing green areas-34- Study climatic phenomena in the country-35- Mechanisms for obtaining good health and well-being.</p>
<p>2- Suggest aspect that serves sustainability</p>	

Ministry of Higher Education and Scientific Research

Republic of Iraq

University: University Of Basrah

College: Management and Economics

Department : Statistic



Year : 2021-2022

Semester : First

SYLLABUS: < **LINEAR PROGRAM** >

INSTRUCTOR: BAHAA A. QASIM

Phone: 07801896620

Hours: 3

Office: ??????

Home Page:

<https://faculty.uobasrah.edu.iq/portal/e2ef524fbf3d9fe611d5a8e90fefd9c>

Email: bahaa.kasem@uobasrah.edu.iq

COURSE OVERVIEW

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes that the student is expected to achieve, proving whether he has made maximum use of the available learning opportunities. It must be linked to the description of the program.

GOALS AND OBJECTIVES

- Introducing the student to the theoretical and applied concept of linear program
- Teaching the student the basic principles of dealing with the statistical methods of linear programming model
- Providing the student with the necessary skills to use statistical programs, including QBS

TEXTBOOK AND READINGS

[1] Operations Research Experiments by Dr. Hamdi Taha

[2] Operations Research Experiments by Dr. Hamed Al-Shamrty

COURSE ASSESSMENTS

The course grade (**50** points) will be based on the following elements:

	Points
Exams	25
Reading Checks	5

Participation	-
Attendance	10
Assignments	10

COURSE DESCRIPTION AND ASSIGNMENT SCHEDULE

This **NO.** -credit hour course is 15 weeks long. You should invest **NO.** hours every week in this course.

WK	DATE	TOPIC	READING	ASSIGNMENT
1		Introduction of operation research		
2		Linear programing model		
3		Types of Linear programing model		
4		Formulation		
		Examples		Assignment 1
5		Examples		
6		Graphical solution mothed		
7		Simplex method		
8		Examples		Assignment 2
9		Big M method		
10		Examples		
11		Duality model		
12		Shadow prices		Assignment 3
13		Examples		
14		Examples		
15	<i>Mid Exam</i>			

Is it possible to develop the curriculum <within the teaching authority 20%> to include vocabulary that serves sustainability

1- Yes, it is possible (point an appropriate aspect)

1- **Applications by QBS programs**



Ministry of Higher Education and Scientific Research

Republic of Iraq

University: University Of Basrah

College: **administration and economic**

Department : **statistic**



Year : 2021-2022

Semester : first

SYLLABUS: < **COMPUTER-1** >

INSTRUCTOR: ZAINAB SABEEH JUMAA

Phone: 07801401214

Hours: 3

Office:

administration and economic

Home Page:

<https://faculty.uobasrah.edu.iq/faculty/945e>

Email: zainab.jumaa@uobasrah.edu.iq

COURSE OVERVIEW

THIS COURSE DESCRIPTION PROVIDES A BRIEF SUMMARY OF THE MOST IMPORTANT CHARACTERISTICS OF THE COURSE AND THE LEARNING OUTCOMES EXPECTED OF THE STUDENT TO ACHIEVE, PROVING WHETHER HE HAS MADE MAXIMUM USE OF THE AVAILABLE LEARNING OPPORTUNITIES. IT MUST BE LINKED TO THE DESCRIPTION OF THE PROGRAM.

GOALS AND OBJECTIVES

The main objective of this course is to familiarize the student with the basics of building different programs using

One of the programming languages, which is the C language on the basis of building an integrated structure to

- build different applications that can be used in various topics and fields

TEXTBOOK AND READINGS

[1] micrisoft oficce 2010

[2] الدار العربية للعلوم visual basic 6.0

COURSE ASSESSMENTS

The course grade (**50** points) will be based on the following elements:

	Points
Exams	25
Reading Checks	10
Participation	10
Attendance	5
Assignments	50

COURSE DESCRIPTION AND ASSIGNMENT SCHEDULE

This **NO.** -credit hour course is 15 weeks long. You should invest **NO.** hours every week in this course.

WK	DATE	TOPIC	READING	ASSIGNMENT
1		Software & hardware definition	Lectures & web sites	Oral test
2		Ram and rom	Lectures & web sites	Discussion
3		Cpu	Lectures & web sites	quiz
4		Types of storage	Lectures & web sites	Online applying
		Input and output devices	Lectures & web sites	Assignment 1
5		Windows 10-introduction	Lectures & web sites	Oral test
6		What is icons	Lectures & web sites	Discussion
7		Copy and cut files and folders	Lectures & web sites	quiz
8		Delete files and folders	Lectures & web sites	Assignment 2
9		Visual basic 6.0	Lectures & web sites	Oral test
10		Variables and constants	Lectures & web sites	Discussion
11		Assignment & expressions types	Lectures & web sites	quiz
12		Loops	Lectures & web sites	Assignment 3
13		Conditional state.	Lectures & web sites	Oral test
14		Examples of programs	Lectures & web sites	Discussion
15	Mid Exam			

Is it possible to develop the curriculum <within the teaching authority 20%> to include vocabulary that serves sustainability

1- Yes, it is possible (point an appropriate aspect)

1- Fighting poverty 2- No hunger 3- Developing life-long learning and education 4- Green chemistry 5- Sustainable development 6- Water purification 7- Water recycling for agriculture 8- Creativity and production 9- Sustainable energy (wind Sun and organic energy) -10-

	<p>Environmental development- 11- pollution measurement -12- child care program-13- public health development program-14- measuring the efficiency of health institutions-15- gender equality-16- non-extremism-17- drug efficiency 18- Food efficiency for infants, children, adults and the elderly -19- Efficiency of the overall environment -20- Waste recycling-21- Heavy water disposal mechanisms-22- Literacy program-23- Mechanisms for preserving biodiversity-24- Mechanisms for spreading peace and justice in society- 25- Developing life in the seas and oceans-26- Studying the level of university education and the mechanisms for its development-27- Mechanisms for developing the local industry in Iraq-28- Mechanisms for developing infrastructure in Iraq-29-Reducing racial discrimination in all its forms-30-The basics of sustainable cities- 31- Mechanisms to reduce consumption and increase production- 32- Mechanisms to provide job opportunities for all-33- Study aspects of developing green areas-34- Study climatic phenomena in the country-35- Mechanisms for obtaining good health and well-being.</p>
<p>2- Suggest aspect that serves sustainability</p>	<p>Studying the level of university education and the mechanisms for its development.</p>

Ministry of Higher Education and Scientific Research

Republic of Iraq

University: University Of Basrah

College: Management and Economics

Department : Statistic



Year : 2021-2022

Semester : First

SYLLABUS: < **COURSE NAME** >

INSTRUCTOR: BAHAA A. QASIM

Phone: 07801896620

Hours: 3

Office: Management and Economics

Home Page:

<https://faculty.uobasrah.edu.iq/portal/e2ef524fbf3d9fe611d5a8e90fefdc9c>

Email: bahaa.kasem@uobasrah.edu.iq

COURSE OVERVIEW

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes that the student is expected to achieve, proving whether he has made maximum use of the available learning opportunities. It must be linked to the description of the program.

GOALS AND OBJECTIVES

- Introducing the student to the theoretical and applied concept of Experiment Design
- Teaching the student the basic principles of dealing with the statistical methods of the analysis of variance method
- Providing the student with the necessary skills to use statistical programs, including SPSS, in implementing the methods of analysis of variance

TEXTBOOK AND READINGS

- [1] Design and analysis of experiments by Dr. Kamal Alwan Al-Mashhadani
- [2] Design and analysis of experiments by Dr. Khasha Mahmoud

COURSE ASSESSMENTS

The course grade (**50** points) will be based on the following elements:

	Points
Exams	25

Reading Checks	5
Participation	-
Attendance	10
Assignments	10

COURSE DESCRIPTION AND ASSIGNMENT SCHEDULE

This **NO.** -credit hour course is 15 weeks long. You should invest **NO.** hours every week in this course.

WK	DATE	TOPIC	READING	ASSIGNMENT
1		Introduction of experiments design and analysis		
2		Definition of experiment		
3		Analysis of variance		
4		One way anova		
		Two way anova		Assignment 1
5		Example		
6		RCD Design		
7		BRCD Design		
8		BIBD Design		Assignment 2
9		Examples		
10		Examples		
11		Latin square design		
12		Latin square design		Assignment 3
13		Examples		
14		Examples		
15	<i>Mid Exam</i>			

Is it possible to develop the curriculum <within the teaching authority 20%> to include vocabulary that serves sustainability

1- Yes, it is possible (point an appropriate aspect)

1-Estimating the missing values for the design of random complete sectors 2-Finding the relative sufficiency

Ministry of Higher Education and Scientific Research

Republic of Iraq

University: University Of Basrah

College: Management and Economics

Department : Statistic



Year : 2021-2022

Semester : First

SYLLABUS: < **COURSE NAME** >

INSTRUCTOR: BAHAA A. QASIM

Phone: 07801896620

Hours: 3

Office: Management and Economics

Home Page:

<https://faculty.uobasrah.edu.iq/portal/e2ef524fbf3d9fe611d5a8e90fefd9c>

Email: bahaa.kasem@uobasrah.edu.iq

COURSE OVERVIEW

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes that the student is expected to achieve, proving whether he has made maximum use of the available learning opportunities. It must be linked to the description of the program.

GOALS AND OBJECTIVES

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- Teaching the student the basic principles of dealing with the statistical methods of the analysis of variance method
- Providing the student with the necessary skills to use statistical programs, including SPSS, in implementing the methods of analysis of variance

TEXTBOOK AND READINGS

- [1] Design and analysis of experiments by Dr. Kamal Alwan Al-Mashhadani
- [2] Design and analysis of experiments by Dr. Khasha Mahmoud

COURSE ASSESSMENTS

The course grade (**50** points) will be based on the following elements:

	Points
Exams	25
Reading Checks	5

Participation	-
Attendance	10
Assignments	10

COURSE DESCRIPTION AND ASSIGNMENT SCHEDULE

This NO. -credit hour course is 15 weeks long. You should invest NO. hours every week in this course.

WK	DATE	TOPIC	READING	ASSIGNMENT
1		Introduction of experiments design and analysis		
2		Definition of experiment		
3		Analysis of variance		
4		One way anova		
		Two way anova		Assignment 1
5		Example		
6		RCD Design		
7		BRCD Design		
8		BIBD Design		Assignment 2
9		Examples		
10		Examples		
11		Latin square design		
12		Latin square design		Assignment 3
13		Examples		
14		Examples		
15	Mid Exam			

Is it possible to develop the curriculum <within the teaching authority 20%> to include vocabulary that serves sustainability

1- Yes, it is possible (point an appropriate aspect)

1-Estimating the missing values for the design of random complete sectors 2-Finding the relative sufficiency

Ministry of Higher Education and Scientific Research

Republic of Iraq

University: University Of Basrah

College: Management and Economics

Department : Statistic



Year : 2021-2022

Semester : First

SYLLABUS: < **COURSE NAME** >

INSTRUCTOR: BAHAA A. QASIM

Phone: 07801896620

Hours: 3

Office: ??????

Home Page:

<https://faculty.uobasrah.edu.iq/portal/e2ef524fbf3d9fe611d5a8e90fefd9c>

Email: bahaa.kasem@uobasrah.edu.iq

COURSE OVERVIEW

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes that the student is expected to achieve, proving whether he has made maximum use of the available learning opportunities. It must be linked to the description of the program.

GOALS AND OBJECTIVES

- Introducing the student to the theoretical and applied concept of Experiment Design
- Teaching the student the basic principles of dealing with the statistical methods of the analysis of variance method
- Providing the student with the necessary skills to use statistical programs, including SPSS, in implementing the methods of analysis of variance

TEXTBOOK AND READINGS

- [1] Design and analysis of experiments by Dr. Kamal Alwan Al-Mashhadani
- [2] Design and analysis of experiments by Dr. Khasha Mahmoud

COURSE ASSESSMENTS

The course grade (**50** points) will be based on the following elements:

	Points
Exams	25
Reading Checks	5

Participation	-
Attendance	10
Assignments	10

COURSE DESCRIPTION AND ASSIGNMENT SCHEDULE

This NO. -credit hour course is 15 weeks long. You should invest NO. hours every week in this course.

WK	DATE	TOPIC	READING	ASSIGNMENT
1		Factors experiments		
2		Concepts		
3		CRD		
4		CRD		
		Examples		Assignment 1
5		Examples		
6		BCRD		
7		BCRD		
8		Examples		Assignment 2
9		Examples		
10		Latin Square Design		
11		Example		
12		Simple effects		Assignment 3
13		Simple effects		
14		Example		
15	<i>Mid Exam</i>			

Is it possible to develop the curriculum <within the teaching authority 20%> to include vocabulary that serves sustainability

1- Yes, it is possible (point an appropriate aspect)

1-Splinter Pieces 2-Merge

Ministry of Higher Education and Scientific Research

Republic of Iraq

University: University Of Basrah

College: Management and Economics

Department : Statistic



Year : 2021-2022

Semester : First

SYLLABUS: < **OPERATION RESEARCH** >

INSTRUCTOR: BAHAA A. QASIM

Phone: 07801896620

Hours: 3

Office: ??????

Home Page:

<https://faculty.uobasrah.edu.iq/portal/e2ef524fbf3d9fe611d5a8e90fefdc9c>

Email: bahaa.kasem@uobasrah.edu.iq

COURSE OVERVIEW

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes that the student is expected to achieve, proving whether he has made maximum use of the available learning opportunities. It must be linked to the description of the program.

GOALS AND OBJECTIVES

- Introducing the student to the theoretical and applied concept of linear program
- Teaching the student the basic principles of dealing with the statistical methods of linear programming model
- Providing the student with the necessary skills to use statistical programs, including QBS

TEXTBOOK AND READINGS

[1] Operations Research Experiments by Dr. Hamdi Taha

[2] Operations Research Experiments by Dr. Hamed Al-Shamrty

COURSE ASSESSMENTS

The course grade (**50** points) will be based on the following elements:

	Points
Exams	25
Reading Checks	5

Participation	-
Attendance	10
Assignments	10

COURSE DESCRIPTION AND ASSIGNMENT SCHEDULE

This **NO.** -credit hour course is 15 weeks long. You should invest **NO.** hours every week in this course.

WK	DATE	TOPIC	READING	ASSIGNMENT
1		Sensitivity analysis		
2		Right side change		
3		Objective function change		
4		Add constraint		
		Examples		Assignment 1
5		Examples		
6		Duality simplex method		
7		Duality Simplex method		
8		Examples		Assignment 2
9		Queue theory		
10		m/m/1		
11		m/m/2		
12		Game theory		Assignment 3
13		Game theory		
14		Examples		
15	<i>Mid Exam</i>			

Is it possible to develop the curriculum <within the teaching authority 20%> to include vocabulary that serves sustainability

1- Yes, it is possible (point an appropriate aspect)

1- **Applications by QBS programs**

Ministry of Higher Education and Scientific Research

Republic of Iraq

University: University Of Basrah

College: Management and Economics

Department : Statistic



Year : 2021-2022

Semester : First

SYLLABUS: < **OPERATION RESEARCH** >

INSTRUCTOR: BAHAA A. QASIM

Phone: 07801896620

Hours: 3

Office: ??????

Home Page:

<https://faculty.uobasrah.edu.iq/portal/e2ef524fbf3d9fe611d5a8e90fefdc9c>

Email: bahaa.kasem@uobasrah.edu.iq

COURSE OVERVIEW

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes that the student is expected to achieve, proving whether he has made maximum use of the available learning opportunities. It must be linked to the description of the program.

GOALS AND OBJECTIVES

- Introducing the student to the theoretical and applied concept of linear program
- Teaching the student the basic principles of dealing with the statistical methods of linear programming model
- Providing the student with the necessary skills to use statistical programs, including QBS

TEXTBOOK AND READINGS

[1] Operations Research Experiments by Dr. Hamdi Taha

[2] Operations Research Experiments by Dr. Hamed Al-Shamrty

COURSE ASSESSMENTS

The course grade (**50** points) will be based on the following elements:

	Points
Exams	25

Reading Checks	5
Participation	-
Attendance	10
Assignments	10

COURSE DESCRIPTION AND ASSIGNMENT SCHEDULE

This **NO.** -credit hour course is 15 weeks long. You should invest **NO.** hours every week in this course.

WK	DATE	TOPIC	READING	ASSIGNMENT
1		Sensitivity analysis		
2		Right side change		
3		Objective function change		
4		Add constraint		
		Examples		Assignment 1
5		Examples		
6		Duality simplex method		
7		Duality Simplex method		
8		Examples		Assignment 2
9		Queue theory		
10		m/m/1		
11		m/m/2		
12		Game theory		Assignment 3
13		Game theory		
14		Examples		
15	<i>Mid Exam</i>			

Is it possible to develop the curriculum <within the teaching authority 20%> to include vocabulary that serves sustainability

1- Yes, it is possible (point an appropriate aspect)

1- **Applications by QBS programs**



Ministry of Higher Education and Scientific Research

Republic of Iraq

University: University Of Basrah

College: College of Administration and Economics

Department : Department of statistics



Year : 2021-2022

Semester : First

SYLLABUS: < MANAGEMENT PRINCIPLES >

INSTRUCTOR:A.P SAHERA ABD AL-KHETHER
WADI

Phone:07808643987

Hours: 2

Office: University of Basra

Home Page:

Email: sahera.wadi@uobasrah.edu.iq

COURSE OVERVIEW

1- THE STUDENT HAS SUFFICIENT INFORMATION ABOUT THE ADMINISTRATION, ITS FUNCTIONS AND ACTIVITIES

2- IT IS POSSIBLE FOR THE STUDENT TO LEARN HOW THE RELATIONSHIP BETWEEN MANAGERS AND EMPLOYEES AND TO DEFINE THE TASKS AND DUTIES OF EACH OF THEM

3- EMPHASIS ON THE ENVIRONMENTAL FRAMEWORK IN WHICH THE ORGANIZATION OPERATES

GOALS AND OBJECTIVES

1- Enabling the student to become familiar with administrative decisions of all kinds

2- To prepare the student mentally to know the administrative schools and their pioneers

3- Transferring the student between the various functions of the administration, the importance and role of each, and the nature of the departments that deal with them at each administrative level

TEXTBOOK AND READINGS

1- Book of Management and Business by Dr. Saleh Mahdi Al-Amri and Dr. Taher Mohsen Al-Ghalbi / Wael Publishing House / Amman / Jordan

COURSE ASSESSMENTS

The course grade (100 points) will be based on the following elements:

	Points
Exams	80
Reading Checks	5
Participation	5
Attendance	10
Assignments	100

COURSE DESCRIPTION AND ASSIGNMENT SCHEDULE

This **NO.** -credit hour course is 15 weeks long. You should invest **NO.** hours every week in this course.

WK	DATE	TOPIC	READING	ASSIGNMENT
1		Concepts of management and business in today's world		
2		The manager's roles, skills and attributes of success		
3		Business organization and its types		
4		Characteristics of administratively developed societies		
				Assignment 1
5		Management between the past and the present		
6		The classical school and the behavioral school		
7		Quantitative school and modern school		
8				Assignment 2
9		Environment, organization culture and diversity		
10		The external environment and the internal environment		
11		Organization committed to customer service		
12		Planning and setting goals		Assignment 3
13		Oversight: its nature, purpose and stages		
14		Types and tools of control		
15	Mid Exam			

Is it possible to develop the curriculum <within the teaching authority 20%> to include vocabulary that serves sustainability

1- Yes, it is possible (point an 1- Fighting poverty 2- No hunger 3- Developing life-long learning and

appropriate aspect)	<p>education 4- Green chemistry 5- Sustainable development 6- Water purification 7- Water recycling for agriculture 8- Creativity and production -9- Sustainable energy (wind Sun and organic energy) -10- Environmental development- 11- pollution measurement -12- child care program-13- public health development program-14- measuring the efficiency of health institutions-15- gender equality-16- non-extremism- 17- drug efficiency 18- Food efficiency for infants, children, adults and the elderly -19- Efficiency of the overall environment -20- Waste recycling-21- Heavy water disposal mechanisms-22- Literacy program- 23- Mechanisms for preserving biodiversity-24- Mechanisms for spreading peace and justice in society- 25- Developing life in the seas and oceans-26- Studying the level of university education and the mechanisms for its development-27- Mechanisms for developing the local industry in Iraq-28- Mechanisms for developing infrastructure in Iraq-29-Reducing racial discrimination in all its forms-30-The basics of sustainable cities- 31- Mechanisms to reduce consumption and increase production- 32- Mechanisms to provide job opportunities for all-33- Study aspects of developing green areas-34- Study climatic phenomena in the country-35- Mechanisms for obtaining good health and well-being.</p>
2- Suggest aspect that serves sustainability	



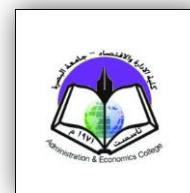
Ministry of Higher Education and Scientific Research

Republic of Iraq

University: University Of Basrah

College: **Administration & Economics**

Department : **Statistics**



Year : 2021-2022

Semester : Second

SYLLABUS: < **COURSE NAME** >

INSTRUCTOR: L. AHMED HUSHAM MOHAMMED ALBASRI

Phone: 07706695128

Hours: 3

Office: -----

Home Page:

<https://faculty.uobasrah.edu.iq/faculty/1>

Email: ahmed.albasri@uobasrah.edu.iq

COURSE OVERVIEW

Linear algebra is one of the important sciences that links between mathematical and statistical aspects through a precise definition of the concept of matrices and how to deal with them, as matrices are one of the important systems through which many problems can be addressed and to reach the construction of linear systems that facilitate their solution, as this course aims To introduce the student to the smallest details of the matrices and then the areas of their application so that information is formed for him to help him understand the applied aspects of the subjects in the advanced stages.

GOALS AND OBJECTIVES

- Introducing the student to everything related to the science of linear algebra as much as possible so that he has realistic knowledge that enables him to treat some phenomena through the matrix system.
- Linking linear algebra through matrix construction and the treatment of statistical systems for estimating simple and complex mathematical models.
- Addressing matrices that suffer from problems of their degree so that they are qualified for the application.
- The purpose of including this subject within the vocabulary of the first and second semester of the second stage is to prepare the student of statistics to be armed with information that qualifies him to complete the specialized statistical subjects in the advanced stages, especially the subjects (regression, econometrics measurement, multivariate, ... etc.)

TEXTBOOK AND READINGS

[1] Linear Algebra --- The authors (Professor Dr. Abdul Majeed Hamza Al-Nasser, Professor: Lamia Baqir Jawad) --- University of Baghdad - College of Administration and Economics - July -1988.,

[2] Linear Algebra --- Author (Dr. George Daif Sebti) --- University of Basra - College of Science -1988

[3] MATRICES --- Author (Shmuel Friedland) --- University of Illinois at Chicago - Department of Mathematics, Statistics, and Computer Science- 2010 .

[4] Elementary Linear Algebra, howard anton & chris rorres , Wily, 2013

COURSE ASSESSMENTS

The course grade (**50** points) will be based on the following elements:

	Points
Exams	40
Reading Checks	3.5
Participation	3.5
Attendance	3
Assignments	50

COURSE DESCRIPTION AND ASSIGNMENT SCHEDULE

This **NO.** -credit hour course is 15 weeks long. You should invest NO. hours every week in this course.

WK	DATE	TOPIC	READING	ASSIGNMENT
1	28/02/2022	A review and introduction to matrices		
2	07/03/2022	Elementary operations and equivalent matrices		
3	14/03/2022	Elementary operations and equivalent matrices		
4	28/03/2022	Solving Linear Equations - The lecture coincides with Nowruz (holiday)		
	04/04/2022			Assignment 1
5	11/04/2022	Solving Linear Equations, Vectors		
6	18/04/2022	Vectors in binary space (planar)		
7	25/04/2022	Vectors in binary (planar) space, vectors in triangular space		
8	25/04/2022			Assignment 2
9	02/05/2022	Vectors in triangular space		
10	09/05/2022	regression analysis		
11	16/05/2022	Regression analysis, linear models		
12	23/05/2022			Assignment 3
13	30/05/2022	linear models		

14	06/06/2022	Review - practical examples		
15	Mid Exam			

Is it possible to develop the curriculum <within the teaching authority 20%> to include vocabulary that serves sustainability	
1- Yes, it is possible (point an appropriate aspect)	<p>1- Fighting poverty 2- No hunger 3- Developing life-long learning and education 4- Green chemistry 5- Sustainable development 6- Water purification 7- Water recycling for agriculture 8- Creativity and production 9- Sustainable energy (wind Sun and organic energy) 10- Environmental development- 11- pollution measurement 12- child care program-13- public health development program-14- measuring the efficiency of health institutions-15- gender equality-16- non-extremism-17- drug efficiency 18- Food efficiency for infants, children, adults and the elderly 19- Efficiency of the overall environment 20- Waste recycling-21- Heavy water disposal mechanisms-22- Literacy program-23- Mechanisms for preserving biodiversity-24- Mechanisms for spreading peace and justice in society- 25- Developing life in the seas and oceans-26- Studying the level of university education and the mechanisms for its development-27- Mechanisms for developing the local industry in Iraq-28- Mechanisms for developing infrastructure in Iraq-29-Reducing racial discrimination in all its forms-30-The basics of sustainable cities- 31- Mechanisms to reduce consumption and increase production- 32- Mechanisms to provide job opportunities for all-33- Study aspects of developing green areas-34- Study climatic phenomena in the country-35- Mechanisms for obtaining good health and well-being.</p>
2- Suggest aspect that serves sustainability	



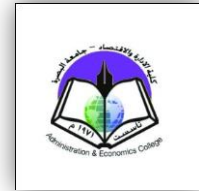
Ministry of Higher Education and Scientific Research

Republic of Iraq

University: University Of Basrah

College: **Administration & Economics**

Department : **Statistics**



Year : 2021-2022

Semester : Second

SYLLABUS: < **COMPUTER 2 – MICROSOFT EXCEL 2010** >

INSTRUCTOR: L. AHMED HUSHAM MOHAMMED ALBASRI

Phone: 07706695128

Hours: 3

Office: -----

Home Page:

<https://faculty.uobasrah.edu.iq/faculty/1>

Email: ahmed.albasri@uobasrah.edu.iq

COURSE OVERVIEW

Computers is one of the important software technical subjects that places the student within the programming knowledge of specialized computer programs that can develop the student's capabilities so that he is armed in both directions, the academic and technical side so that he is qualified. The Accounting Department is closely related to the specialization of the accounting student, especially in how to prepare databases for final budgets - daily accounting books - the fund - and everything related to administrative accounting work.

GOALS AND OBJECTIVES

- Enhancing the student's knowledge of the most important programs that run under Windows operating systems.
- Enhancing the student's knowledge of the importance of the electronic spreadsheet program and how to prepare databases that can support the accounting work systems.
- Linking the technical side of software and accounting by introducing the student to how to deal with accounting and financial formulas within the ready-made software environment.
- The purpose of activating this curriculum is to enable the student to increase accounting knowledge by developing the technical aspect of the software so that it is an important way out that can be pushed to work within government and private institutions.

TEXTBOOK AND READINGS

1. Learn Microsoft Office 2019: A comprehensive guide to getting started with Word, PowerPoint, Excel, Access, Outlook, Linda Foulkes, 2020 , Packt Publishing .
2. Microsoft Excel 2019 Data Analysis and Business Modeling, Wayne Winston, 6Ed, 2019, Microsoft Press

COURSE ASSESSMENTS

The course grade (points) will be based on the following elements:

	Points
Exams	40
Reading Checks	3.5
Participation	3.5
Attendance	3
Assignments	50

COURSE DESCRIPTION AND ASSIGNMENT SCHEDULE

This **NO.** -credit hour course is 15 weeks long. You should invest **NO.** hours every week in this course.

WK	DATE	TOPIC	READING	ASSIGNMENT
1	26/02/2022	Introduction to Excel		
2	05/03/2022	How to run the Excel program - get to know the program environment - data types		
3	12/03/2022	Tabs within an Excel worksheet - definition of the most important sections		
4	19/03/2022	How to prepare the table - manual and automatic formatting of tables - with practical examples		
	26/03/2022			Assignment 1
5	02/04/2022	Conditional coordination - its importance and types - with practical examples		
6	09/04/2022	Autofill - and filter - validation rule - with practical examples		
7	16/04/2022	Insert tab - how to deal with graphic forms of all kinds - with practical examples		
8	23/04/2022			Assignment 2
9	30/04/2022	Formats tab - types of formulas - how to apply them		
10	07/05/2022	Applying algebraic formulas - accounting - financial - with practical examples		
11	14/05/2022	Applying algebraic formulas - accounting - financial - with practical examples		
12	21/05/2022			Assignment 3
13	28/05/2022	Learn to build databases using Excel		
14	04/06/2022	Practical examples		
15	Mid Exam			

Is it possible to develop the curriculum <within the teaching authority 20%> to include vocabulary that serves sustainability

<p>1- Yes, it is possible (point an appropriate aspect)</p>	<p>1- Fighting poverty 2- No hunger 3- Developing life-long learning and education 4- Green chemistry 5- Sustainable development 6- Water purification 7- Water recycling for agriculture 8- Creativity and production -9- Sustainable energy (wind Sun and organic energy) -10- Environmental development- 11- pollution measurement -12- child care program-13- public health development program-14- measuring the efficiency of health institutions-15- gender equality-16- non-extremism- 17- drug efficiency 18- Food efficiency for infants, children, adults and the elderly -19- Efficiency of the overall environment -20- Waste recycling-21- Heavy water disposal mechanisms-22- Literacy program- 23- Mechanisms for preserving biodiversity-24- Mechanisms for spreading peace and justice in society- 25- Developing life in the seas and oceans-26- Studying the level of university education and the mechanisms for its development-27- Mechanisms for developing the local industry in Iraq-28- Mechanisms for developing infrastructure in Iraq-29-Reducing racial discrimination in all its forms-30-The basics of sustainable cities- 31- Mechanisms to reduce consumption and increase production- 32- Mechanisms to provide job opportunities for all-33- Study aspects of developing green areas-34- Study climatic phenomena in the country-35- Mechanisms for obtaining good health and well-being.</p>
<p>2- Suggest aspect that serves sustainability</p>	



Ministry of Higher Education and Scientific Research

Republic of Iraq

University: University Of Basrah

College: **Administration & Economics**

Department : **Statistics**



Year : 2021-2022

Semester : Second

SYLLABUS: < **COMPUTER 2 – MICROSOFT EXCEL 2010** >

INSTRUCTOR: L. AHMED HUSHAM MOHAMMED ALBASRI

Phone: 07706695128

Hours: 3

Office: -----

Home Page:

<https://faculty.uobasrah.edu.iq/faculty/1>

Email: ahmed.albasri@uobasrah.edu.iq

COURSE OVERVIEW

Computers is one of the important software technical subjects that places the student within the programming knowledge of specialized computer programs that can develop the student's capabilities so that he is armed in both directions, the academic and technical side so that he is qualified. The Accounting Department is closely related to the specialization of the accounting student, especially in how to prepare databases for final budgets - daily accounting books - the fund - and everything related to administrative accounting work.

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- Enhancing the student's knowledge of the most important programs that run under Windows operating systems.
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COURSE ASSESSMENTS

The course grade (points) will be based on the following elements:

	Points
Exams	40
Reading Checks	3.5
Participation	3.5
Attendance	3
Assignments	50

COURSE DESCRIPTION AND ASSIGNMENT SCHEDULE

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WK	DATE	TOPIC	READING	ASSIGNMENT
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3	12/03/2022	Tabs within an Excel worksheet - definition of the most important sections		
4	19/03/2022	How to prepare the table - manual and automatic formatting of tables - with practical examples		
	26/03/2022			Assignment 1
5	02/04/2022	Conditional coordination - its importance and types - with practical examples		
6	09/04/2022	Autofill - and filter - validation rule - with practical examples		
7	16/04/2022	Insert tab - how to deal with graphic forms of all kinds - with practical examples		
8	23/04/2022			Assignment 2
9	30/04/2022	Formats tab - types of formulas - how to apply them		
10	07/05/2022	Applying algebraic formulas - accounting - financial - with practical examples		
11	14/05/2022	Applying algebraic formulas - accounting - financial - with practical examples		
12	21/05/2022			Assignment 3
13	28/05/2022	Learn to build databases using Excel		
14	04/06/2022	Practical examples		
15	Mid Exam			

Is it possible to develop the curriculum <within the teaching authority 20%> to include vocabulary that serves sustainability

<p>1- Yes, it is possible (point an appropriate aspect)</p>	<p>1- Fighting poverty 2- No hunger 3- Developing life-long learning and education 4- Green chemistry 5- Sustainable development 6- Water purification 7- Water recycling for agriculture 8- Creativity and production -9- Sustainable energy (wind Sun and organic energy) -10- Environmental development- 11- pollution measurement -12- child care program-13- public health development program-14- measuring the efficiency of health institutions-15- gender equality-16- non-extremism- 17- drug efficiency 18- Food efficiency for infants, children, adults and the elderly -19- Efficiency of the overall environment -20- Waste recycling-21- Heavy water disposal mechanisms-22- Literacy program- 23- Mechanisms for preserving biodiversity-24- Mechanisms for spreading peace and justice in society- 25- Developing life in the seas and oceans-26- Studying the level of university education and the mechanisms for its development-27- Mechanisms for developing the local industry in Iraq-28- Mechanisms for developing infrastructure in Iraq-29-Reducing racial discrimination in all its forms-30-The basics of sustainable cities- 31- Mechanisms to reduce consumption and increase production- 32- Mechanisms to provide job opportunities for all-33- Study aspects of developing green areas-34- Study climatic phenomena in the country-35- Mechanisms for obtaining good health and well-being.</p>
<p>2- Suggest aspect that serves sustainability</p>	



Ministry of Higher Education and Scientific Research

Republic of Iraq

University: University Of Basrah

College: **administration and economic**

Department : **statistic**



Year : 2021-2022

Semester : first

SYLLABUS: < **COMPUTER-1** >

INSTRUCTOR: ZAINAB SABEEH JUMAA

Phone: 07801401214

Hours: 3

Office:

administration and economic

Home Page:

<https://faculty.uobasrah.edu.iq/faculty/945e>

Email: zainab.jumaa@uobasrah.edu.iq

COURSE OVERVIEW

THIS COURSE DESCRIPTION PROVIDES A BRIEF SUMMARY OF THE MOST IMPORTANT CHARACTERISTICS OF THE COURSE AND THE LEARNING OUTCOMES EXPECTED OF THE STUDENT TO ACHIEVE, PROVING WHETHER HE HAS MADE MAXIMUM USE OF THE AVAILABLE LEARNING OPPORTUNITIES. IT MUST BE LINKED TO THE DESCRIPTION OF THE PROGRAM.

GOALS AND OBJECTIVES

The main objective of this course is to familiarize the student with the basics of building different programs using

One of the programming languages, which is the C language on the basis of building an integrated structure to

- build different applications that can be used in various topics and fields

TEXTBOOK AND READINGS

[1] micrisoft oficce 2010

[2] الدار العربية للعلوم visual basic 6.0

COURSE ASSESSMENTS

The course grade (**50** points) will be based on the following elements:

	Points
Exams	25
Reading Checks	10
Participation	10
Attendance	5
Assignments	50

COURSE DESCRIPTION AND ASSIGNMENT SCHEDULE

This **NO.** -credit hour course is 15 weeks long. You should invest **NO.** hours every week in this course.

WK	DATE	TOPIC	READING	ASSIGNMENT
1		Software & hardware definition	Lectures & web sites	Oral test
2		Ram and rom	Lectures & web sites	Discussion
3		Cpu	Lectures & web sites	quiz
4		Types of storage	Lectures & web sites	Online applying
		Input and output devices	Lectures & web sites	Assignment 1
5		Windows 10-introduction	Lectures & web sites	Oral test
6		What is icons	Lectures & web sites	Discussion
7		Copy and cut files and folders	Lectures & web sites	quiz
8		Delete files and folders	Lectures & web sites	Assignment 2
9		Visual basic 6.0	Lectures & web sites	Oral test
10		Variables and constants	Lectures & web sites	Discussion
11		Assignment & expressions types	Lectures & web sites	quiz
12		Loops	Lectures & web sites	Assignment 3
13		Conditional state.	Lectures & web sites	Oral test
14		Examples of programs	Lectures & web sites	Discussion
15	Mid Exam			

Is it possible to develop the curriculum <within the teaching authority 20%> to include vocabulary that serves sustainability

1- Yes, it is possible (point an appropriate aspect)

1- Fighting poverty 2- No hunger 3- Developing life-long learning and education 4- Green chemistry 5- Sustainable development 6- Water purification 7- Water recycling for agriculture 8- Creativity and production 9- Sustainable energy (wind Sun and organic energy) 10-

	<p>Environmental development- 11- pollution measurement -12- child care program-13- public health development program-14- measuring the efficiency of health institutions-15- gender equality-16- non-extremism-17- drug efficiency 18- Food efficiency for infants, children, adults and the elderly -19- Efficiency of the overall environment -20- Waste recycling-21- Heavy water disposal mechanisms-22- Literacy program-23- Mechanisms for preserving biodiversity-24- Mechanisms for spreading peace and justice in society- 25- Developing life in the seas and oceans-26- Studying the level of university education and the mechanisms for its development-27- Mechanisms for developing the local industry in Iraq-28- Mechanisms for developing infrastructure in Iraq-29-Reducing racial discrimination in all its forms-30-The basics of sustainable cities- 31- Mechanisms to reduce consumption and increase production- 32- Mechanisms to provide job opportunities for all-33- Study aspects of developing green areas-34- Study climatic phenomena in the country-35- Mechanisms for obtaining good health and well-being.</p>
<p>2- Suggest aspect that serves sustainability</p>	<p>Studying the level of university education and the mechanisms for its development.</p>



Ministry of Higher Education and Scientific Research

Republic of Iraq

University: University Of Basrah

College: **administration and economic**

Department : **statistic**



Year : 2022-2021

Semester : second

SYLLABUS: < **COMPUTER-2** >

INSTRUCTOR: ZAINAB SABEEH JUMAA

Phone: 07801401214

Hours: 3

Office:

administration and economic

<https://faculty.uobasrah.edu.iq/faculty/945e>

Email: zainab.jumaa@uobasrah.edu.iq

COURSE OVERVIEW

THIS COURSE DESCRIPTION PROVIDES A BRIEF SUMMARY OF THE MOST IMPORTANT CHARACTERISTICS OF THE COURSE AND THE LEARNING OUTCOMES EXPECTED OF THE STUDENT TO ACHIEVE, PROVING WHETHER HE HAS MADE MAXIMUM USE OF THE AVAILABLE LEARNING OPPORTUNITIES. IT MUST BE LINKED TO THE DESCRIPTION OF THE PROGRAM.

GOALS AND OBJECTIVES

The main objective of this course is to familiarize the student with the basics of building different programs using

One of the programming languages, which is the C language on the basis of building an integrated structure to

- build different applications that can be used in various topics and fields

TEXTBOOK AND READINGS

[1] micrisoft oficce 2010

[2] الدار العربية للعلوم visual basic 6.0

[3]

COURSE ASSESSMENTS

The course grade (**50** points) will be based on the following elements:

	Points
Exams	25
Reading Checks	10

Participation	10
Attendance	5
Assignments	50

COURSE DESCRIPTION AND ASSIGNMENT SCHEDULE

This **NO.** -credit hour course is 15 weeks long. You should invest NO. hours every week in this course.

WK	DATE	TOPIC	READING	ASSIGNMENT
1		Introduction in excel	Lectures & web sites	Oral test
2		Books and work sheets	Lectures & web sites	Discusion
3		Types of ranges	Lectures & web sites	quiz
4		Input data	Lectures & web sites	Online applying
		Relative and real refernce	Lectures & web sites	Assignment 1
5		Copy of formulas	Lectures & web sites	Oral test
6		Central tendency	Lectures & web sites	Discusion
7		If-fns	Lectures & web sites	quiz
8		Aggregate	Lectures & web sites	Assignment 2
9		Vlookup	Lectures & web sites	Oral test
10		Lookup	Lectures & web sites	Discusion
11		Trasform data to table	Lectures & web sites	quiz
12		Apply fns. With table	Lectures & web sites	Assignment 3
13		Save book	Lectures & web sites	Oral test
14		Process worksheets	Lectures & web sites	Discusion
15	Mid Exam			

Is it possible to develop the curriculum <within the teaching authority 20%> to include vocabulary that serves sustainability

1- Yes, it is possible (point an appropriate aspect)

1- Fighting poverty 2- No hunger 3- Developing life-long learning and education 4- Green chemistry 5- Sustainable development 6- Water purification 7- Water recycling for agriculture 8- Creativity and production 9- Sustainable energy (wind Sun and organic energy) -10- Environmental development- 11- pollution measurement -12- child care program-13- public health development program-14- measuring the efficiency of health institutions-15- gender equality-16- non-extremism-17- drug efficiency 18- Food efficiency for infants, children, adults and

	<p>the elderly -19- Efficiency of the overall environment -20- Waste recycling-21- Heavy water disposal mechanisms-22- Literacy program-23- Mechanisms for preserving biodiversity-24- Mechanisms for spreading peace and justice in society- 25- Developing life in the seas and oceans-26- Studying the level of university education and the mechanisms for its development-27- Mechanisms for developing the local industry in Iraq-28- Mechanisms for developing infrastructure in Iraq-29-Reducing racial discrimination in all its forms-30-The basics of sustainable cities- 31- Mechanisms to reduce consumption and increase production- 32- Mechanisms to provide job opportunities for all-33- Study aspects of developing green areas-34- Study climatic phenomena in the country-35- Mechanisms for obtaining good health and well-being.</p>
<p>2- Suggest aspect that serves sustainability</p>	



Ministry of Higher Education and Scientific Research

Republic of Iraq

University: University Of Basrah

College: Management and Economics

Department : Statistic



Year : 2021-2022

Semester : First

SYLLABUS: < TIME SERIES >

INSTRUCTOR: **RAISSAN A. ZALAN**

Phone: **07707309987**

Hours: **2**

Office: **??????**

Home Page: <https://faculty.uobasrah.edu.iq/faculty/400>

Email: ressan.zalan@uobasrah.edu.iq

COURSE OVERVIEW

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes that the student is expected to achieve, proving whether he has made maximum use of the available learning opportunities. It must be linked to the description of the program.

GOALS AND OBJECTIVES

- Familiarize students with time series and their uses
- Enable the student to predict different phenomena.
- Enable the student to examine and test the stability of time series

TEXTBOOK AND READINGS

[1] Time series and Record numbers by Dr. Abdul Latif H. Shoman

[2]

COURSE ASSESSMENTS

The course grade (**50** points) will be based on the following elements:

	Points
Exams	25
Reading Checks	5

Participation	-
Attendance	10
Assignments	10

COURSE DESCRIPTION AND ASSIGNMENT SCHEDULE

This **NO.** -credit hour course is 15 weeks long. You should invest **NO.** hours every week in this course.

WK	DATE	TOPIC	READING	ASSIGNMENT
1		The concept of time series, the concept of forecasting, and its types		
2		data appearance patterns		
3		The most important quantitative forecasting metrics		
4		Accuracy of forecasting methods		
5		Case studies using the computer		Assignment 1
6		Types of models in time series analysis methods		
7		General direction vehicle and ways to find it		
8		The vehicle of the season and ways to find it		
9		The vehicle of periodic and transverse changes and ways to find them		Assignment 2
10		Case studies using the computer		
11		Introduction to exponential boot methods		
12		Average taking methods (single and double digits)		
13		mono exponential boot		Assignment 3
14		Case studies using the computer		
15		The First semester exam		
15	<i>Mid Exam</i>			

Is it possible to develop the curriculum <within the teaching authority 20%> to include vocabulary that serves sustainability	
1- Yes, it is possible	1- Applications by MATH program



Ministry of Higher Education and Scientific Research

Republic of Iraq

University: University Of Basrah

College: Management and Economics

Department : Statistic



Year : 2021-2022

Semester : Second

SYLLABUS: < TIME SERIES >

INSTRUCTOR: **RAISSAN A. ZALAN**

Phone: 07707309987

Hours: 2

Office: ??????

Home Page: <https://faculty.uobasrah.edu.iq/faculty/400>

Email: ressan.zalan@uobasrah.edu.iq

COURSE OVERVIEW

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes that the student is expected to achieve, proving whether he has made maximum use of the available learning opportunities. It must be linked to the description of the program.

GOALS AND OBJECTIVES

- Familiarize students with time series and their uses
- Enable the student to predict different phenomena.
- Enable the student to examine and test the stability of time series

TEXTBOOK AND READINGS

[1] Time series and Record numbers by Dr. Abdul Latif H. Shoman

[2]

COURSE ASSESSMENTS

The course grade (50 points) will be based on the following elements:

	Points
Exams	25
Reading Checks	5
Participation	-

Attendance	10
Assignments	10

COURSE DESCRIPTION AND ASSIGNMENT SCHEDULE

This **NO.** -credit hour course is 15 weeks long. You should invest **NO.** hours every week in this course.

WK	DATE	TOPIC	READING	ASSIGNMENT
1		double exponential smoothing (Brown's method), double exponential smoothing (Hult's method)		
2		Triple Exponential smoothing (Winter's Seasonal Method), Case Studies Using Computer		
3		Average stability and variance		
4		Transformations on data, autocorrelation function and partial autocorrelation		
5		Box Jenkins method for time series analysis		Assignment 1
6		The stages of building a box Jenkins model and diagnosis		
7		The use of autocorrelation and partial autocorrelation functions in diagnosing the Box Jenkins model		
8		The Estimation		
9		Using the method of preliminary estimates by moments and the method of maximum likelihood		Assignment 2
10		Check the appropriate model		
11		Using the Price Box Test, the Legnbox Test and the Dickie Fuller Test for Chain Stability		
12		Forecasting		
13		Case studies using the computer		Assignment 3
14		Case studies using the computer		
15		The First semester exam		
15	<i>Mid Exam</i>			

Is it possible to develop the curriculum <within the teaching authority 20%> to include vocabulary that serves sustainability	
1- Yes, it is possible	1- Applications by MATH program

Ministry of Higher Education and Scientific Research

Republic of Iraq

University: University Of Basrah

College: Management and Economics

Department : Statistic



Year : 2021-2022

Semester : First

SYLLABUS: < **MATHMITICAL STATASTIC** >

INSTRUCTOR: RAISSAN A. ZALAN

Phone: 07707309987

Hours: 3

Office: ??????

Home Page: <https://faculty.uobasrah.edu.iq/faculty/400>

Email: ressan.zalan@uobasrah.edu.iq

COURSE OVERVIEW

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes that the student is expected to achieve, proving whether he has made maximum use of the available learning opportunities. It must be linked to the description of the program.

GOALS AND OBJECTIVES

- Introducing the student to the theoretical and applied concept of the mathematical statistic
- Teaching the student the basic principles of the mathematical statistic
- Providing the student with the necessary skills to use the mathematical statistic.

TEXTBOOK AND READINGS

[1] Introduction to mathematical statistics by Dr. Eden

[2]The mathematical statistic by Amir Hanna Hormuz

COURSE ASSESSMENTS

The course grade (**50** points) will be based on the following elements:

	Points
Exams	25
Reading Checks	5

Participation	-
Attendance	10
Assignments	10

COURSE DESCRIPTION AND ASSIGNMENT SCHEDULE

This NO. -credit hour course is 15 weeks long. You should invest NO. hours every week in this course.

WK	DATE	TOPIC	READING	ASSIGNMENT
1		Definition of the continuous and discrete variables ,probability function		
2		Discrete probabilities distribution (Bernoulli ,binomial)		
3		Discrete probabilities distribution (Geometric ,Negative binomial)		
4		Continuous probabilities distribution (Gamma , exponential,Chi square)		
5		Continuous probabilities distribution (Normal)		Assignment 1
6		Continuous probabilities distribution (pareto)		
7		Continuous probabilities distribution (Weibull)		
8		Discrete joint probability distribution and Continuous joint probability distribution		
9		Conditional probability distribution		Assignment 2
10		Some related topics with this type of joint p.d.f		
11		joint p.d.f of order statistics		
12		Marginal p.d.f of order statistics		
13		The p.d.f. of sample median		Assignment 3
14		The p.d.f. of sample range		
15		The First semester exam		
15	<i>Mid Exam</i>			

Is it possible to develop the curriculum <within the teaching authority 20%> to include vocabulary that serves sustainability	
1- Yes, it is possible	1- Applications by MATH program

Ministry of Higher Education and Scientific Research

Republic of Iraq

University: University Of Basrah

College: Management and Economics

Department : Statistic



Year : 2021-2022

Semester : second

SYLLABUS: < **MATHMITICAL STATISTIC** >

INSTRUCTOR: RAISSAN A. ZALAN

Phone: 07707309987

Hours: 3

Office: ??????

Home Page: <https://faculty.uobasrah.edu.iq/faculty/400>

Email: ressan.zalan@uobasrah.edu.iq

COURSE OVERVIEW

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes that the student is expected to achieve, proving whether he has made maximum use of the available learning opportunities. It must be linked to the description of the program.

GOALS AND OBJECTIVES

- Introducing the student to the theoretical and applied concept of the mathematical statistic
- Teaching the student the basic principles of the mathematical statistic
- Providing the student with the necessary skills to use the mathematical statistic.

TEXTBOOK AND READINGS

[1] Introduction to mathematical statistics by Dr. Eden

[2] The mathematical statistic by Amir Hanna Hormuz

COURSE ASSESSMENTS

The course grade (**50** points) will be based on the following elements:

	Points
Exams	25
Reading Checks	5

Participation	-
Attendance	10
Assignments	10

COURSE DESCRIPTION AND ASSIGNMENT SCHEDULE

This **NO.** -credit hour course is 15 weeks long. You should invest **NO.** hours every week in this course.

WK	DATE	TOPIC	READING	ASSIGNMENT
1		Distribution of order statistics		
2		Distribution of order statistics		
3		Sampling theory for finding distribution		
4		Transformation of variables of discrete type		
5		Transformation of variables of continuous type		Assignment 1
6		Transformation by C.D.F		
7		F distribution		
8		F distribution		
9		T distribution		Assignment 2
10		T distribution		
11		Compound distribution		
12		Compound distribution		
13		Generating function		Assignment 3
14		Central limit theorem		
15		The second semester exam		
15	<i>Mid Exam</i>			

Is it possible to develop the curriculum <within the teaching authority 20%> to include vocabulary that serves sustainability

1- Yes, it is possible

1- **Applications by MATH programs**



Ministry of Higher Education and Scientific Research

Republic of Iraq

University: University Of Basrah

College: Administration and Economics

Department : Statistics



Year : 2021-2022

Semester : First

SYLLABUS: < **COURSE NAME** >

INSTRUCTOR: Ali Abdulzahra Hassan	Phone: 07702183645
Hours: 2	Office: University Of Basrah
Home Page: https://faculty.uobasrah.edu.iq/faculty/45	Email: ali.hassan@uobasrah.edu.iq

COURSE OVERVIEW

QUALITY CONTROL IS ONE OF THE APPLICATIONS OF STATISTICS IN PRACTICAL LIFE, ESPECIALLY IN INDUSTRY, AS IT IS AN ORGANIZATIONAL PROCESS FOR ACTIVITIES THAT MEASURE THE ACTUAL PERFORMANCE OF QUALITY AND ITS CONFORMITY WITH STANDARD SPECIFICATIONS, AND THEN TAKE THE NECESSARY CORRECTIVE MEASURES FOR THESE ACTIVITIES, THAT IS, TO ENSURE THE AVAILABILITY OF THE REQUIRED SPECIFICATIONS FOR THE PRODUCT OR SERVICE, STUDY ITS IMPROVEMENT AND DEVELOP PLANS FOR EXAMINATION.

GOALS AND OBJECTIVES

- Enable the student to know the concept of quality control, identify the quality of production, and use appropriate control panels to control the quality of production and its conformity to the required specifications
- How to accurately draw control panels for the purpose of reaching the desired results

TEXTBOOK AND READINGS

[1] Al-Mashhadani, Nazih Abbas (2015) "An Introduction to Statistical Quality Control", College of Administration and Economics / Al-Mustansiriya University - Baghdad

[2]

Course assessments

The course grade (50 points) will be based on the following elements:

Points

Exams	40
Reading Checks	-
Participation	5
Attendance	5
Assignments	50

COURSE DESCRIPTION AND ASSIGNMENT SCHEDULE

This 2.-credit hour course is 15 weeks long. You should invest 2. hours every week in this course.

WK	DATE	TOPIC	READING	ASSIGNMENT
1		introduction to quality control and its charts		
2		introduction to quality control and its charts		
3		The concept of quality control		
4		The concept of quality control		
5		quality control charts		
6				Assignment 1
7		arithmetic mean charts		
8		arithmetic mean charts		
9		Standard deviation chart		
10		Standard deviation chart		
11		Properties control chart		
12				Assignment 2
13		Properties Control chart		
14		Average number of violations chart		
15		Average number of violations chart		
	Mid Exam			

Is it possible to develop the curriculum <within the teaching authority 20%> to include vocabulary that serves sustainability

1- Yes, it is possible (point an appropriate aspect)

2- Suggest aspect that serves sustainability



Ministry of Higher Education and Scientific Research

Republic of Iraq

University: University Of Basrah

College: Administration and Economics

Department: Statistics



Year: 2021-2022

Semester: The second

SYLLABUS: < QUALITY CONTROL 1->

Instructor: ALI ABDULZAHRA HASSAN

Phone: 07702183645.

Hours: 2

Office: University Of Basrah

Home Page:

<https://faculty.uobasrah.edu.iq/faculty/45>

Email: ali.hassan@uobasrah.edu.iq

COURSE OVERVIEW

QUALITY CONTROL IS ONE OF THE APPLICATIONS OF STATISTICS IN PRACTICAL LIFE, ESPECIALLY IN INDUSTRY, AS IT IS AN ORGANIZATIONAL PROCESS FOR ACTIVITIES THAT MEASURE THE ACTUAL PERFORMANCE OF QUALITY AND ITS CONFORMITY WITH STANDARD SPECIFICATIONS, AND THEN TAKE THE NECESSARY CORRECTIVE MEASURES FOR THESE ACTIVITIES, THAT IS, TO ENSURE THE AVAILABILITY OF THE REQUIRED SPECIFICATIONS FOR THE PRODUCT OR SERVICE, STUDY ITS IMPROVEMENT AND DEVELOP PLANS FOR EXAMINATION.

GOALS AND OBJECTIVES

- The course aims to use quality control panels using advanced statistical methods
- Learn about inspection plans by inspection and other types of plans

TEXTBOOK AND READINGS

[1] Al-Mashhadani, Nazih Abbas (2015) "An Introduction to Statistical Quality Control", College of Administration and Economics / Al-Mustansiriya University - Baghdad

[2]

Course assessments

The course grade (50 points) will be based on the following elements:

Points

Exams	40
Reading Checks	
Participation	5
Attendance	5
Assignments	50

COURSE DESCRIPTION AND ASSIGNMENT SCHEDULE

This 2.-credit hour course is 15 weeks long. You should invest 2. hours every week in this course.

WK	DATE	TOPIC	READING	ASSIGNMENT
1		Control chart and Advanced Statistical Techniques - Introduction		
2		Animated Arithmetic chart		
3		Geometric Motion chart (Asiatically Weighted)		
4		cumulative total chart		
5		multivariate chart		
6				Assignment 1
7		Inspection check		
8		Inspection plan		
9		Single Examination Plan		
10		Dual Screening Plan		
11		Multi-stage examination plan		
12		Sequential examination plan		
13				Assignment 2
14		Sampling plans using probability distributions		
15		Use the normal distribution		
	Mid Exam			

Is it possible to develop the curriculum <within the teaching authority 20%> to include vocabulary that serves sustainability

1- Yes, it is possible (point an appropriate aspect)

2- Suggest aspect that serves sustainability



Ministry of Higher Education and Scientific Research

Republic of Iraq

University: University Of Basrah

College: Administration and Economics

Department: Statistics



Year: 2021-2022

Semester: First

SYLLABUS: < **PRINCIPLES OF STATISTICS** >

INSTRUCTOR: WAFAA ABDULSAMAD ASHOUR	Phone:
Hours: 3	Office: Administration and Economics
Home Page: https://faculty.uobasrah.edu.iq/faculty/1282/teaching	Email: wafaa.ashoor@uobasrah.edu.iq

COURSE OVERVIEW

INTRODUCE THE STUDENT TO THE IMPORTANCE OF STATISTICS AND ITS METHODS AND HOW TO COLLECT AND CLASSIFY DATA IN DIFFERENT TYPES OF TABLES AND TO IDENTIFY THE MEASURES OF CENTRAL TENDENCY AND THEIR CHARACTERISTICS AND THE RELATIONSHIP BETWEEN THE MEASURES AND THEN MEASURES OF DISPERSION, COEFFICIENT OF VARIATION, SKEWNESS, FLATNESS, CORRELATIONS, TYPES OF CORRELATION COEFFICIENTS AND SIMPLE REGRESSION.

GOALS AND OBJECTIVES

- The ability to collect and classify data.
- 2- The ability to find and analyze statistical indicators.
- 3- The ability to measure the degree of relationship between the variables.

TEXTBOOK AND READINGS

[1] printed lectures

[2] Video lectures

COURSE ASSESSMENTS

The course grade (50 points) will be based on the following elements:

	Points
Exams	40
Reading Checks	??????
Participation	5
Attendance	5
Assignments	50

COURSE DESCRIPTION AND ASSIGNMENT SCHEDULE

This **NO.** -credit hour course is 15 weeks long. You should invest NO. hours every week in this course.

WK	DATE	TOPIC	READING	ASSIGNMENT
1	3	An introduction to statistics and its relationship to other sciences	Print and video lectures	Daily exam and oral exam
2		Tabular presentation of data, some statistical concepts		
3		Geometric display of data		
4		Inspection		
5	First exam			Assignment 1
6		types of samples		
7		Measures of Dispersion - Measures of Relative Dispersion		
8		Measures of Central Tendency - the arithmetic mean of the grouped and ungrouped data		
9	Second exam			
10		The median for classified and unclassified data		Assignment 2
11				
12		mode for classified and unclassified data		
13		geometric mean		Assignment 3
14		linear regression		
15		Linear Correlation		
	Mid Exam			

Is it possible to develop the curriculum <within the teaching authority 20%> to include vocabulary that serves sustainability

1- Yes, it is possible (point an appropriate aspect)

1- Fighting poverty 2- No hunger 3- Developing life-long learning and education 4- Green chemistry 5- Sustainable development 6- Water

	<p>purification 7- Water recycling for agriculture 8- Creativity and production -9- Sustainable energy (wind Sun and organic energy) -10- Environmental development- 11- pollution measurement -12- child care program-13- public health development program-14- measuring the efficiency of health institutions-15- gender equality-16- non-extremism-17- drug efficiency 18- Food efficiency for infants, children, adults and the elderly -19- Efficiency of the overall environment -20- Waste recycling-21- Heavy water disposal mechanisms-22- Literacy program-23- Mechanisms for preserving biodiversity-24- Mechanisms for spreading peace and justice in society- 25- Developing life in the seas and oceans-26- Studying the level of university education and the mechanisms for its development-27- Mechanisms for developing the local industry in Iraq-28- Mechanisms for developing infrastructure in Iraq-29-Reducing racial discrimination in all its forms-30-The basics of sustainable cities- 31- Mechanisms to reduce consumption and increase production- 32- Mechanisms to provide job opportunities for all-33- Study aspects of developing green areas-34- Study climatic phenomena in the country-35- Mechanisms for obtaining good health and well-being.</p>
<p>2- Suggest aspect that serves sustainability</p>	



Ministry of Higher Education and Scientific Research

Republic of Iraq

University: University Of Basrah

College: economics & administration

Department: statistics



Year: 2021-2022

Semester: second

SYLLABUS: < THE INTEGRAL >

INSTRUCTOR: WAFF ABDULSAMAD ASHOUR	Phone:
Hours: 3	Office: : economics & administration
Home Page: faculty.uobasrah.edu.iq/faculty/1282/teaching	Email: wafaa.ashoor@uobasrah.edu.iq

COURSE OVERVIEW

- GIVING THE MATHEMATICS SUBJECT THAT THE STUDENT WILL NEED TO STUDY STATISTICAL THEORY, PROBABILITY, MATHEMATICAL STATISTICS, AND INFERENCE, BECAUSE THEY ALL NEED A MATHEMATICAL SUBJECT IN CALCULUS.

GOALS AND OBJECTIVES

- Completing the program that the student studied in the preparatory stage by training him on mathematical subjects related to calculus and its applications, which deepens the student’s understanding when moving to advanced statistical stages2
-

TEXTBOOK AND READINGS

[1] Principles of Calculus Dr .Ali Aziz.

Thomas-2

3- Video and print lectureslculus

COURSE ASSESSMENTS

The course grade (50 points) will be based on the following elements:

Points

Exams	40
Reading Checks	
Participation	5
Attendance	5
Assignments	50

COURSE DESCRIPTION AND ASSIGNMENT SCHEDULE

This **NO.** -credit hour course is 15 weeks long. You should invest **NO.** hours every week in this course.

WK	DATE	TOPIC	READING	ASSIGNMENT
1	3	Integral and its properties	lectures/class	Questions and discussion
2	3	Integrals involving logarithmic and exponential functions	lectures/class	Questions and discussion
3	3	Integrals involving trigonometric and inverse trigonometric functions	lectures/class	Questions and discussion
4	3	Integrals involving hyperbolic and inverse hyperbolic functions	lectures/class	Questions and discussion
5	First exam		lectures/class	Questions and discussion
6		Integration by parts	lectures/class	Questions and discussion
7	3	Trigonometric substitutions	lectures/class	Questions and discussion
8	3	partial fraction	lectures/class	Questions and discussion
9	Second exam		lectures/class	Questions and discussion
10		Integral functions contain roots	lectures/class	Questions and discussion
11	3	Integral by completing square	lectures/class	Questions and discussion
12	3	Area under a curve	lectures/class	Questions and discussion
14		Area between two curves	lectures/class	3 Questions and discussion
15	3	Area between two curves	lectures/class	Questions and discussion
15	3	double integrals	lectures/class	Questions and discussion
Mid Exam				

Is it possible to develop the curriculum <within the teaching authority 20%> to include vocabulary that serves sustainability

1- Yes, it is possible (point an appropriate aspect)

1- Fighting poverty 2- No hunger 3- Developing life-long learning and education 4- Green chemistry 5- Sustainable development 6- Water

	<p>purification 7- Water recycling for agriculture 8- Creativity and production -9- Sustainable energy (wind Sun and organic energy) -10- Environmental development- 11- pollution measurement -12- child care program-13- public health development program-14- measuring the efficiency of health institutions-15- gender equality-16- non-extremism-17- drug efficiency 18- Food efficiency for infants, children, adults and the elderly -19- Efficiency of the overall environment -20- Waste recycling-21- Heavy water disposal mechanisms-22- Literacy program-23- Mechanisms for preserving biodiversity-24- Mechanisms for spreading peace and justice in society- 25- Developing life in the seas and oceans-26- Studying the level of university education and the mechanisms for its development-27- Mechanisms for developing the local industry in Iraq-28- Mechanisms for developing infrastructure in Iraq-29-Reducing racial discrimination in all its forms-30-The basics of sustainable cities- 31- Mechanisms to reduce consumption and increase production- 32- Mechanisms to provide job opportunities for all-33- Study aspects of developing green areas-34- Study climatic phenomena in the country-35- Mechanisms for obtaining good health and well-being.</p>
<p>2- Suggest aspect that serves sustainability</p>	



Ministry of Higher Education and Scientific Research

Republic of Iraq

University: University Of Basrah

College: economic & administration

Department: statistic



Year: 2021-2022

Semester: First

SYLLABUS: < **NUMERICAL ANALYSIS1** >

INSTRUCTOR: WAFAA ABDULSAMAD ASHOUR	Phone:
Hours: 3	Office: economic & administration
Home Page: faculty.uobasrah.edu.iq/faculty/1282/teaching	Email: wafaa.ashoor@uobasrah.edu.iq

COURSE OVERVIEW

- 1- RECOGNIZE THE VARIOUS TYPES OF ERRORS THAT ACCOMPANY ANY STUDY
- 2- LEARN ABOUT THE METHODS OF FINDING THE ELEMENTARY SOLUTION OF COMPLEX EQUATIONS
- A3- IDENTIFYING WAYS TO FIND SOLUTIONS TO EQUATIONS AT A CERTAIN ACCURACY

GOALS AND OBJECTIVES

- Introducing the student to how to deal with complex functions, especially non-linear functions, whose solution requires dealing with special methods called numerical methods.

TEXTBOOK AND READINGS

- [1] Numerical analysis book. Kazem Al-Lami
- [2] printed lectures
- [3]

COURSE ASSESSMENTS

The course grade (50 points) will be based on the following elements:

	Points
Exams	40
Reading Checks	
Participation	5
Attendance	5
Assignments	50

COURSE DESCRIPTION AND ASSIGNMENT SCHEDULE

This **NO.** -credit hour course is 15 weeks long. You should invest **NO.** hours every week in this course.

WK	DATE	TOPIC	READING	ASSIGNMENT
1	3	Numerical analysis(definitions)	printed lectures- Video lectures	Oral test
2	3	Error and its types		Solve questions during the lesson
3		Types of the error		Solve questions during the lesson
4		Methods to solve a system of linear equations		Solve questions during the lesson
		First exam		Assignment 1
5		Forward substitution method		Solve questions during the lesson
6		Backward substitution method		Solve questions during the lesson
7		Gauss elimination methods		Solve questions during the lesson
8		quiz iterative methods- Jacobi method		Assignment 2
9		Second exam		Solve questions during the lesson
10		The gauss-Siedl method		Solve questions during the lesson
11		Methods for solving nonlinear equations The Newton-Raphson method		Solve questions during the lesson
12				Assignment 3
13		fixed point method		Solve questions during the lesson
14		Bisection method		Solve questions during the lesson
15	Mid Exam			

Is it possible to develop the curriculum <within the teaching authority 20%> to include vocabulary that serves sustainability

1- Yes, it is possible (point an

1- Fighting poverty 2- No hunger 3- Developing life-long learning

appropriate aspect)	<p>and education 4- Green chemistry 5- Sustainable development 6- Water purification 7- Water recycling for agriculture 8- Creativity and production -9- Sustainable energy (wind Sun and organic energy) -10- Environmental development- 11- pollution measurement -12- child care program-13- public health development program-14- measuring the efficiency of health institutions-15- gender equality-16- non-extremism-17- drug efficiency 18- Food efficiency for infants, children, adults and the elderly -19- Efficiency of the overall environment -20- Waste recycling-21- Heavy water disposal mechanisms-22- Literacy program-23- Mechanisms for preserving biodiversity-24- Mechanisms for spreading peace and justice in society- 25- Developing life in the seas and oceans-26- Studying the level of university education and the mechanisms for its development-27- Mechanisms for developing the local industry in Iraq-28- Mechanisms for developing infrastructure in Iraq-29-Reducing racial discrimination in all its forms-30-The basics of sustainable cities- 31- Mechanisms to reduce consumption and increase production- 32- Mechanisms to provide job opportunities for all-33- Study aspects of developing green areas-34- Study climatic phenomena in the country-35- Mechanisms for obtaining good health and well-being.</p>
2- Suggest aspect that serves sustainability	



Ministry of Higher Education and Scientific Research

Republic of Iraq

University: University Of Basrah

College: Economic and administration

Department: statistics



Year : 2021-2022

Semester : second

SYLLABUS: < **COURSE NAME** >

INSTRUCTOR: WAFAA ADULSAMAD ASHOUR	Phone: 016282384.
Hours: 2	Office: economics & administration
Home Page: faculty.uobasrah.edu.iq/faculty/1282/teaching	Email: wafaa.ashoor@uobasrah.edu.iq

COURSE OVERVIEW

INTRODUCING THE STUDENT TO HOW TO DEAL WITH COMPLEX FUNCTIONS, ESPECIALLY NON-LINEAR FUNCTIONS, WHOSE SOLUTION REQUIRES DEALING WITH SPECIAL METHODS CALLED NUMERICAL METHODS.

GOALS AND OBJECTIVES

- - Identify ways to find solutions to equations at a certain accuracy
- 2- Recognize the different types of differences
- 3- Using differences to solve and model most of the data
- 4- Finding the derivative using numerical methods
- 5- Finding the definite integral using numerical methods
- 6- Solve a system of equations numerically

TEXTBOOK AND READINGS

- [1] [1] Book of Numerical Analysis / Dr. Kazem Al-Lami
- [2] printed lectures
- [3]

COURSE ASSESSMENTS

The course grade (50 points) will be based on the following elements:

Points

Exams	40
Reading Checks	
Participation	5
Attendance	5
Assignments	50

COURSE DESCRIPTION AND ASSIGNMENT SCHEDULE

This **NO.** -credit hour course is 15 weeks long. You should invest NO. hours every week in this course.

WK	DATE	TOPIC	READING	ASSIGNMENT
1		interpolation	Print and video lectures	Oral test and discussion
2		Linear interpolation		
3		Lagrange's formula for interpolation		
4		the differences		
				Assignment 1
5		Forward differences		
6		Central differences		
7		Backward differences		
8				Assignment 2
9		Newton's forward formula		
10		Newton's backward formula		
11		Numerical integration- trapezoidal method		
12		Simpsons formula		
13		Simpsons formula		
14		Rang Kutta method		
15	Mid Exam			

Is it possible to develop the curriculum <within the teaching authority 20%> to include vocabulary that serves sustainability

1- Yes, it is possible (point an appropriate aspect)

1- Fighting poverty 2- No hunger 3- Developing life-long learning and education 4- Green chemistry 5- Sustainable development 6- Water purification 7- Water recycling for agriculture 8- Creativity and production 9- Sustainable energy (wind Sun and organic energy) -10-

	<p>Environmental development- 11- pollution measurement -12- child care program-13- public health development program-14- measuring the efficiency of health institutions-15- gender equality-16- non-extremism-17- drug efficiency 18- Food efficiency for infants, children, adults and the elderly -19- Efficiency of the overall environment -20- Waste recycling-21- Heavy water disposal mechanisms-22- Literacy program-23- Mechanisms for preserving biodiversity-24- Mechanisms for spreading peace and justice in society- 25- Developing life in the seas and oceans-26- Studying the level of university education and the mechanisms for its development-27- Mechanisms for developing the local industry in Iraq-28- Mechanisms for developing infrastructure in Iraq-29-Reducing racial discrimination in all its forms-30-The basics of sustainable cities- 31- Mechanisms to reduce consumption and increase production- 32- Mechanisms to provide job opportunities for all-33- Study aspects of developing green areas-34- Study climatic phenomena in the country-35- Mechanisms for obtaining good health and well-being.</p>
<p>2- Suggest aspect that serves sustainability</p>	



Ministry of Higher Education and Scientific Research

Republic of Iraq

University: University Of Basrah

College: **economic & administration**

Department: **statistics**



Year : 2021-2022

Semester : second

SYLLABUS:< DIFFERENTIAL EQUATIONS >

INSTRUCTOR: WAFAA ABDULSAMAD ASHOUR	Phone: 07716282384.
Hours: 3	Office: economic & administration
Home Page: faculty.uobasrah.edu.iq/faculty/1282/teaching	Email: wafaa.ashoor@uobasrah.edu.iq

COURSE OVERVIEW

KNOWLEDGE OF DIFFERENTIAL EQUATIONS

A2- METHODS FOR SOLVING FIRST-ORDER DIFFERENTIAL EQUATIONS-

A3- METHODS FOR SOLVING EQUATIONS OF THE SECOND ORDER BY TYPE OF ROOTS

GOALS AND OBJECTIVES

- Video and print lectures

TEXTBOOK AND READINGS

[1] A BOOK ON SOLVING ORDINARY DIFFERENTIAL EQUATIONS - AUTHORED BY - WAFAA ABDEL SAMAD ASHOUR

[2] METHODS OF SOLVING ORDINARY DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS (AUTHORED BY DR. RIYAD SHAKER NAOUM AND DR. IBRAHIM GHORBAL RIYAD)

[3]

COURSE ASSESSMENTS

The course grade (50 points) will be based on the following elements:

	Points
	40

Reading Checks	
Participation	5
Attendance	5
Assignments	50

COURSE DESCRIPTION AND ASSIGNMENT SCHEDULE

This **NO.** -credit hour course is 15 weeks long. You should invest NO. hours every week in this course.

WK	DATE	TOPIC	READING	ASSIGNMENT
1		Define an ordinary differential equation The order of the differential equation Degree of Differential Equation Solve the differential equation		
2		The general solution to the differential equation Ordinary differential equations of first order and first degree		
3		Differential equations that can be solved by separating the two variables		
4		Homogeneous Equations		
5				Assignment 1
6		Exact Equations		
7		Integration factor - linear differential equations of the first order		
8		Bernoulli's equation		
9	Second exam			
10		Differential equations of a higher order than a first (higher order)		
11		Homogeneous and inhomogeneous linear differential equations of higher order		
12		Linear equations of higher order with constant coefficients		
13		Solve linear equations with constant coefficients according to the nature of their roots		
14		methods to find the solution by changing the constants		
15		Transaction method		

Is it possible to develop the curriculum <within the teaching authority 20%> to include vocabulary that serves sustainability

<p>1- Yes, it is possible (point an appropriate aspect)</p>	<p>1- Fighting poverty 2- No hunger 3- Developing life-long learning and education 4- Green chemistry 5- Sustainable development 6- Water purification 7- Water recycling for agriculture 8- Creativity and production 9- Sustainable energy (wind Sun and organic energy) 10- Environmental development- 11- pollution measurement 12- child care program-13- public health development program-14- measuring the efficiency of health institutions-15- gender equality-16- non-extremism-17- drug efficiency 18- Food efficiency for infants, children, adults and the elderly -19- Efficiency of the overall environment -20- Waste recycling-21- Heavy water disposal mechanisms-22- Literacy program- 23- Mechanisms for preserving biodiversity-24- Mechanisms for spreading peace and justice in society- 25- Developing life in the seas and oceans-26- Studying the level of university education and the mechanisms for its development-27- Mechanisms for developing the local industry in Iraq-28- Mechanisms for developing infrastructure in Iraq-29-Reducing racial discrimination in all its forms-30-The basics of sustainable cities- 31- Mechanisms to reduce consumption and increase production- 32- Mechanisms to provide job opportunities for all-33- Study aspects of developing green areas-34- Study climatic phenomena in the country-35- Mechanisms for obtaining good health and well-being.</p>
<p>2- Suggest aspect that serves sustainability</p>	



Ministry of Higher Education and Scientific Research

Republic of Iraq

University: University Of Basrah

College: **Collage of administration and Economic**

Department : **statistics**



Year : 2021-2022

Semester: second

SYLLABUS: < **COURSE STATISTICAL INFERENCE** >

INSTRUCTOR: LECTURER DR>DURAID HUSSEIN BADR

Phone: PHONE 07703222770.

Hours: 3

Office: Collage of administration and Economic

Home Page:

Email: duraid.badr@uobasrah.edu.iq

COURSE OVERVIEW

STATISTICAL INFERENCE

GOALS AND OBJECTIVES

- **Reading Checks**
- **Participation**
- **Attendance**
- **Assignments**

TEXTBOOK AND READINGS

[1] مدخل في الاستدلال الاحصائي / ا.د. عبد المجيد حمزة الناصر

[2]

[3]

COURSE ASSESSMENTS

The course grade (**50** points) will be based on the following elements:

	Points
Exams	20
Reading Checks	5
Participation	5

Attendance	10
Assignments	10

COURSE DESCRIPTION AND ASSIGNMENT SCHEDULE

This **NO.** -credit hour course is 15 weeks long. You should invest NO. hours every week in this course.

WK	DATE	TOPIC	READING	ASSIGNMENT
1	3	Bayes estimation	Statistical Inference	Give Lectures
2	3	Prior distribution	Statistical Inference	Give Lectures
3	3	Posterior distribution	Statistical Inference	Give Lectures
4	3	Utility function	Statistical Inference	Give Lectures
5	3	Loss function	Statistical Inference	Give Lectures
6	3	Bayes testing	Statistical Inference	Give Lectures
7	3	Testing hypothesis	Statistical Inference	Give Lectures
7	3	Simple hypothesis	Statistical Inference	Give Lectures
9	3	Composite hypothesis	Statistical Inference	Give Lectures
10	3	Type of error , power function	Statistical Inference	Give Lectures
11	3	Best critical region	Statistical Inference	Give Lectures
12	3	Generalized likelihood ratio test	Statistical Inference	Give Lectures
13	3	Uniformly most powerful test	Statistical Inference	Give Lectures
14	3	Sequential test of hypothesis	Statistical Inference	Give Lectures
15	3	applications	Statistical Inference	Give Lectures
15	<i>Mid Exam</i>			

Is it possible to develop the curriculum <within the teaching authority 20%> to include vocabulary that serves sustainability

1- Yes, it is possible (point an appropriate aspect)	1- Fighting poverty 2- No hunger 3- Developing life-long learning and education 4- Green chemistry 5- Sustainable development 6- Water purification 7- Water recycling for agriculture 8- Creativity and production -9- Sustainable energy (wind Sun and organic energy) -10- Environmental development- 11- pollution measurement -12- child care program-13- public health development program-14- measuring the efficiency of health institutions-15- gender equality-16- non-extremism-17- drug efficiency 18- Food efficiency for infants, children, adults and the elderly -19- Efficiency of the overall environment -20- Waste recycling-21- Heavy water disposal mechanisms-22- Literacy program-23- Mechanisms for preserving biodiversity-24- Mechanisms for spreading peace and justice in society- 25- Developing life in
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	<p>the seas and oceans-26- Studying the level of university education and the mechanisms for its development-27- Mechanisms for developing the local industry in Iraq-28- Mechanisms for developing infrastructure in Iraq-29-Reducing racial discrimination in all its forms-30-The basics of sustainable cities- 31- Mechanisms to reduce consumption and increase production- 32- Mechanisms to provide job opportunities for all-33- Study aspects of developing green areas-34- Study climatic phenomena in the country-35- Mechanisms for obtaining good health and well-being.</p>
<p>2- Suggest aspect that serves sustainability</p>	



Ministry of Higher Education and Scientific Research

Republic of Iraq

University: University Of Basrah

College: **Administration & Economics**

Department : **Statistic**



Year : 2021-2022

Semester : FIRST

SYLLABUS: PROGRAMMING2

INSTRUCTOR: <i>PROF.NADA BADR JARAH</i>	Phone:
Hours: 2	Office:
Home Page:	Email: nada.jarrah@uobasrah.edu.iq

COURSE OVERVIEW

IT IS AN R PROGRAMMING LANGUAGE THAT CONTAINS IMPORTANT WAYS TO WRITE A PROGRAM TO READ DATA AND SOLVE STATISTICAL PROBLEMS USING SEVERAL READY-MADE FUNCTIONS

GOALS AND OBJECTIVES

- **Study the rules of the programming language R**
- **Providing students with modern values, trends, skills, knowledge and experience in the field of programming.**
- **Develop students' skills and knowledge about program design**

TEXTBOOK AND READINGS

- [1] The R programming language for statistical computing The R programming language for statistical computing
- [2]
- [3]

COURSE ASSESSMENTS

The course grade (**50** points) will be based on the following elements:

	Points
Exams	20 x 2
Reading Checks	5

Participation	5
Attendance	
Assignments	

COURSE DESCRIPTION AND ASSIGNMENT SCHEDULE

This **NO.** -credit hour course is 15 weeks long. You should invest NO. hours every week in this course.

WK	DATE	TOPIC	READING	ASSIGNMENT
1		Statistical computing, features of the R . programming language	Run and end the program	
2		Arithmetic, logical and mathematical operations	Application of general instructions and various operations	
3		Data in R, Vectors, Lists	Applications for data as vectors and lists	
4		Matrices	Matrices application	
		Save and recall an object	Application save and recall an object	Assignment 1
5		graph and function barplot() , plot , hist()	Application of functions barplot(), plot, hist()	
6		Box plots, Pie function, dotchart function	Application for functions Pie & boxplot & dotchart	
7		par() function, charges pairs()	An application for the functions par and pairs	
8		3D plot	Writing programs for 3D drawing	Assignment 2
9		Programming in R, the if statement	Write programs for the if statement	
10		theory test	practical test	
11		for statement, while . statement	Write programs for the for and while programming statements	
12		RStudio	Run and apply RStudio	Assignment 3
13		Packages in R, downloading data and software packages	package download app	
14		Packages list, repositories for extra packages	Application Components List Packages	
15	Mid Exam			

Is it possible to develop the curriculum <within the teaching authority 20%> to include vocabulary that serves sustainability

1- Yes, it is possible	3- Developing life-long learning and education
2- Suggest aspect that serves sustainability	Solve any problem in statistic



Ministry of Higher Education and Scientific Research

Republic of Iraq

University: University Of Basrah

College: **Administration & Economics**

Department : **Statistic**



Year : 2021-2022

Semester : Second

SYLLABUS: PROGRAMMING2

INSTRUCTOR: PROF.NADA BADR JARAH	Phone:
Hours: 2	Office:
Home Page:	Email: nada.jarrah@uobasrah.edu.iq

COURSE OVERVIEW

IT IS A MATLAB PROGRAM THAT CONTAINS THE BASIC STEPS FOR WRITING A PROGRAM TO SOLVE STATISTICAL PROBLEMS

GOALS AND OBJECTIVES

- Study the rules of the programming language Matlab
- Providing students with modern values, trends, skills, knowledge and experience in the field of programming.
- Develop students' skills and knowledge about program design

TEXTBOOK AND READINGS

[1] any book of matlab program

[2]

[3]

COURSE ASSESSMENTS

The course grade (50 points) will be based on the following elements:

	Points
Exams	20 x 2
Reading Checks	5
Participation	5
Attendance	

COURSE DESCRIPTION AND ASSIGNMENT SCHEDULE

This **NO.** -credit hour course is 15 weeks long. You should invest NO. hours every week in this course.

WK	DATE	TOPIC	READING	ASSIGNMENT
1		Run and end the program	Matlab, program interface, important instructions	
2		Application of basic arithmetic operations and mathematical functions	Basic arithmetic operations, mathematical functions	
3		Applications for variables, save and retrieve work	Variables, whos command, save and retrieve work	
4		Apply examples of vectors and calculus	Vectors, Calculus in Matlab	
				Assignment 1
5		Applying Arrays in Matlab	Arrays in Matlab	
6		Application of arithmetic operations on matrices	Arithmetic operations on matrices	
7		Polynomial application in Matlab	Polynomial in Matlab	
8		Application of finding roots of polynomials and Boolean operations	Finding roots of polynomials and logical operations	Assignment 2
9		software application for solution	solving a system of linear equations	
10		Write programs for the if statement	Programming in Matlab, the if conditional statement:	
11		practical test	theory test	
12		Write programs for for and while . programming statements	Loops: for statement, while . statement	Assignment 3
13		Program implementation of the break, continue, programming statements.	Programming statements break, continue, switch	
14		graphic application Adding properties to graphics	Graphs Adding properties to graphics in Matlab	
15	Mid Exam			

Is it possible to develop the curriculum <within the teaching authority 20%> to include vocabulary that serves sustainability

1- Yes, it is possible	3- Developing life-long learning and education
2- Suggest aspect that serves sustainability	Solve any problem in statistic

Ministry of Higher Education and Scientific Research

Republic of Iraq

University: University Of Basrah

College: *Administration and Economics*

Department : **Accounting**



Year : 2021-2022

Semester : First

SYLLABUS: < **PRINCIPLES OF STATISTICS** >

INSTRUCTOR: **WAFAA ABDULSAMAD ASHOUR**

Phone:

Hours: 3

Office: *Administration and Economics*

Home Page:

<https://faculty.uobasrah.edu.iq/faculty/1282/teaching>

Email: **wafaa.ashoor@uobasrah.edu.iq**

COURSE OVERVIEW

INTRODUCE THE STUDENT TO THE IMPORTANCE OF STATISTICS AND ITS METHODS AND HOW TO COLLECT AND CLASSIFY DATA IN DIFFERENT TYPES OF TABLES AND TO IDENTIFY THE MEASURES OF CENTRAL TENDENCY AND THEIR CHARACTERISTICS AND THE RELATIONSHIP BETWEEN THE MEASURES AND THEN MEASURES OF DISPERSION, COEFFICIENT OF VARIATION, SKEWNESS, FLATNESS, CORRELATIONS, TYPES OF CORRELATION COEFFICIENTS AND SIMPLE REGRESSION.

GOALS AND OBJECTIVES

- The ability to collect and classify data.
- 2- The ability to find and analyze statistical indicators.
- 3- The ability to measure the degree of relationship between the variables.
-

TEXTBOOK AND READINGS

[1] printed lectures

[2] Video lectures

COURSE ASSESSMENTS

The course grade (**50** points) will be based on the following elements:

	Points
Exams	40
Reading Checks	??????
Participation	5
Attendance	5
Assignments	50

COURSE DESCRIPTION AND ASSIGNMENT SCHEDULE

This NO. -credit hour course is 15 weeks long. You should invest NO. hours every week in this course.

WK	DATE	TOPIC	READING	ASSIGNMENT
1	3	An introduction to statistics and its relationship to other sciences	Print and video lectures	Daily exam and oral exam
2		Tabular presentation of data, some statistical concepts		
3		Geometric display of data		
4		Inspection		
5	First exam			Assignment 1
6		types of samples		
7		Measures of Dispersion - Measures of Relative Dispersion		
8		Measures of Central Tendency - the arithmetic mean of the grouped and ungrouped data		
9	Second exam			
10		The median for classified and unclassified data		Assignment 2
11				
12		mode for classified and unclassified data		
13		geometric mean		Assignment 3
14		linear regression		
15		Linear Correlation		
	Mid Exam			

Is it possible to develop the curriculum <within the teaching authority 20%> to include vocabulary that serves sustainability

<p>1- Yes, it is possible (point an appropriate aspect)</p>	<p>1- Fighting poverty 2- No hunger 3- Developing life-long learning and education 4- Green chemistry 5- Sustainable development 6- Water purification 7- Water recycling for agriculture 8- Creativity and production -9- Sustainable energy (wind Sun and organic energy) -10- Environmental development- 11- pollution measurement -12- child care program-13- public health development program-14- measuring the efficiency of health institutions-15- gender equality-16- non-extremism- 17- drug efficiency 18- Food efficiency for infants, children, adults and the elderly -19- Efficiency of the overall environment -20- Waste recycling-21- Heavy water disposal mechanisms-22- Literacy program- 23- Mechanisms for preserving biodiversity-24- Mechanisms for spreading peace and justice in society- 25- Developing life in the seas and oceans-26- Studying the level of university education and the mechanisms for its development-27- Mechanisms for developing the local industry in Iraq-28- Mechanisms for developing infrastructure in Iraq-29-Reducing racial discrimination in all its forms-30-The basics of sustainable cities- 31- Mechanisms to reduce consumption and increase production- 32- Mechanisms to provide job opportunities for all-33- Study aspects of developing green areas-34- Study climatic phenomena in the country-35- Mechanisms for obtaining good health and well-being.</p>
<p>2- Suggest aspect that serves sustainability</p>	

Ministry of Higher Education and Scientific Research

Republic of Iraq

University: University Of Basrah

College: *Administration and Economics*

Department: **statistics**



Year : 2021-2022

Semester : First

SYLLABUS: < **PRINCIPLES OF STATISTICS** >

INSTRUCTOR: **WAFAA ABDULSAMAD ASHOUR**

Phone:

Hours: 3

Office: *Administration and Economics*

Home Page:

<https://faculty.uobasrah.edu.iq/faculty/1282/teachin> Email: wafaa.ashoor@uobasrah.edu.iq
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COURSE OVERVIEW

INTRODUCE THE STUDENT TO THE IMPORTANCE OF STATISTICS AND ITS METHODS AND HOW TO COLLECT AND CLASSIFY DATA IN DIFFERENT TYPES OF TABLES AND TO IDENTIFY THE MEASURES OF CENTRAL TENDENCY AND THEIR CHARACTERISTICS AND THE RELATIONSHIP BETWEEN THE MEASURES AND THEN MEASURES OF DISPERSION, COEFFICIENT OF VARIATION, SKEWNESS, FLATNESS, CORRELATIONS, TYPES OF CORRELATION COEFFICIENTS AND SIMPLE REGRESSION.

GOALS AND OBJECTIVES

- The ability to collect and classify data.
- 2- The ability to find and analyze statistical indicators.
- 3- The ability to measure the degree of relationship between the variables.
-

TEXTBOOK AND READINGS

[1] printed lectures

[2] Video lectures

COURSE ASSESSMENTS

The course grade (**50** points) will be based on the following elements:

	Points
Exams	40
Reading Checks	??????
Participation	5
Attendance	5
Assignments	50

COURSE DESCRIPTION AND ASSIGNMENT SCHEDULE

This NO. -credit hour course is 15 weeks long. You should invest NO. hours every week in this course.

WK	DATE	TOPIC	READING	ASSIGNMENT
1	3	An introduction to statistics and its relationship to other sciences	Print and video lectures	Daily exam and oral exam
2		Tabular presentation of data, some statistical concepts		
3		Geometric display of data		
4		Inspection		
5	First exam			Assignment 1
6		types of samples		
7		Measures of Dispersion - Measures of Relative Dispersion		
8		Measures of Central Tendency - the arithmetic mean of the grouped and ungrouped data		
9	Second exam			
10		The median for classified and unclassified data		Assignment 2
11				
12		mode for classified and unclassified data		
13		geometric mean		Assignment 3
14		linear regression		
15		Linear Correlation		
	Mid Exam			

Is it possible to develop the curriculum <within the teaching authority 20%> to include vocabulary that serves sustainability

<p>1- Yes, it is possible (point an appropriate aspect)</p>	<p>1- Fighting poverty 2- No hunger 3- Developing life-long learning and education 4- Green chemistry 5- Sustainable development 6- Water purification 7- Water recycling for agriculture 8- Creativity and production -9- Sustainable energy (wind Sun and organic energy) -10- Environmental development- 11- pollution measurement -12- child care program-13- public health development program-14- measuring the efficiency of health institutions-15- gender equality-16- non-extremism- 17- drug efficiency 18- Food efficiency for infants, children, adults and the elderly -19- Efficiency of the overall environment -20- Waste recycling-21- Heavy water disposal mechanisms-22- Literacy program- 23- Mechanisms for preserving biodiversity-24- Mechanisms for spreading peace and justice in society- 25- Developing life in the seas and oceans-26- Studying the level of university education and the mechanisms for its development-27- Mechanisms for developing the local industry in Iraq-28- Mechanisms for developing infrastructure in Iraq-29-Reducing racial discrimination in all its forms-30-The basics of sustainable cities- 31- Mechanisms to reduce consumption and increase production- 32- Mechanisms to provide job opportunities for all-33- Study aspects of developing green areas-34- Study climatic phenomena in the country-35- Mechanisms for obtaining good health and well-being.</p>
<p>2- Suggest aspect that serves sustainability</p>	



Ministry of Higher Education and Scientific Research

Republic of Iraq

University: University Of Basrah

College: **economic and administration**

Department : **accounting**



Year : 2021-2022

Semester : second

SYLLABUS: < **MATHEMATICS**>

INSTRUCTOR: WAFAA ABDULSAMAD ASHOUR	Phone:
Hours: 3	Office: economic and administration
Home Page:	Email: wafaa.ashoor@uobasrah.edu.iq

COURSE OVERVIEW

THIS COURSE AIMS TO PROVIDE THE STUDENT WITH KNOWLEDGE OF MATRICES AND THEIR TYPES

KNOWLEDGE OF SYSTEMS OF LINEAR EQUATIONS

SOLVE LINEAR EQUATIONS USING MATRICES AND DETERMINANTS

GOALS AND OBJECTIVES

- (1) Learn about matrices and their types
- (2) Using matrices to solve systems of linear equations

TEXTBOOK AND READINGS

- [1] Sources
- [1] Printed lectures
- [2] Video lectures

COURSE ASSESSMENTS

The course grade (50 points) will be based on the following elements:

	Points
Exams	40

Reading Checks	
Participation	5
Attendance	5
Assignments	50

COURSE DESCRIPTION AND ASSIGNMENT SCHEDULE

This **NO.** -credit hour course is 15 weeks long. You should invest NO. hours every week in this course.

WK	DATE	TOPIC	READING	ASSIGNMENT
1		Vectors and their types - vector representation - addition and subtraction of vectors		
2		scalar vectors Multiplication		
3		the dot vector Multiplication		
4		Definition of matrices - types of matrices - matrix rounder - matrix effect		
5				Assignment 1
6		hierarchical matrix - add and subtract matrices		
7		matrix multiplication		
8		Properties of Matrices Multiplication		
9				Assignment 2
10		determinants		
11		Types of determinants		
12		Properties of determinants		
13		Examples of determinants		Assignment 3
14		Solving Linear Equations Using Matrices		
15		Solving Linear Equations Using Determinants		
15	Mid Exam			

Is it possible to develop the curriculum <within the teaching authority 20%> to include vocabulary that serves sustainability

1- Yes, it is possible (point an appropriate aspect)

1- Fighting poverty 2- No hunger 3- Developing life-long learning and education 4- Green chemistry 5- Sustainable development 6- Water purification 7- Water recycling for agriculture 8- Creativity and production -9- Sustainable energy (wind Sun and organic energy) -10-

	<p>Environmental development- 11- pollution measurement -12- child care program-13- public health development program-14- measuring the efficiency of health institutions-15- gender equality-16- non-extremism-17- drug efficiency 18- Food efficiency for infants, children, adults and the elderly -19- Efficiency of the overall environment -20- Waste recycling-21- Heavy water disposal mechanisms-22- Literacy program-23- Mechanisms for preserving biodiversity-24- Mechanisms for spreading peace and justice in society- 25- Developing life in the seas and oceans-26- Studying the level of university education and the mechanisms for its development-27- Mechanisms for developing the local industry in Iraq-28- Mechanisms for developing infrastructure in Iraq-29-Reducing racial discrimination in all its forms-30-The basics of sustainable cities- 31- Mechanisms to reduce consumption and increase production- 32- Mechanisms to provide job opportunities for all-33- Study aspects of developing green areas-34- Study climatic phenomena in the country-35- Mechanisms for obtaining good health and well-being.</p>
<p>2- Suggest aspect that serves sustainability</p>	