

Wasit University



Bachelor of Science Statistics (B.S.c.)





Republic of Iraq
Ministry of Higher Education
and Scientific Research
University of Wasit



Academic Program Description for the Department of Statistics - Bologna process
for the academic year 2025-2026

University: University of Wasit

College / Institute: College of Administration and Economics

Department: Department of Statistics

Program Name: Bachelor of Science in Statistics

Date of Description Preparation: 21/9/2025

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signature:

Name of the Head of Department:

Asst. Prof. Dr. Ali Hameed Yousif

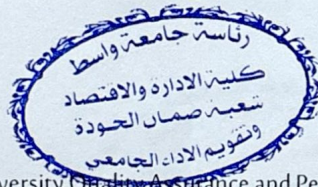
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Date: 21/9/2025



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1- Mission & Vision Statement

Mission

The Department of Statistics strives to provide its students with the highest academic standards through lectures delivered by faculty members, developing students' computer skills and data analysis abilities, and offering top-tier services and consultations in statistical fields. It also conducts statistical software training courses for employees across various public and private sectors, enhancing their expertise in this area.

Furthermore, the department aims to contribute to the country's economic development by producing graduates with the skills and creativity to collect and analyze data for diverse institutions, thereby improving their efficiency.

Vision

The vision of the Statistics Department is to try to build a solid and distinguished qualitative statistical foundation, and its outputs will be exemplary models capable of building a country that stands among the knowledge-advanced countries. The Statistics Department also aspires to be one of the scientifically distinguished departments in teaching students specialized statistical subjects and providing scientific and statistical consultations needed by government departments and others in service to society, in addition to its endeavor to strengthen cultural and scientific ties between its professors and the outside world in various scientific and research aspects.

2- Program Specification

Program code:	BSc-STA	ECTS	240
Duration:	4 levels, 8 Semesters	Method of Attendance:	Full Time

The Department of Statistics at the College of Administration and Economics was established in 2005. Since its inception, it has adopted the important motto: "Scientific rigor and modernity are the foundation for meeting the demands of the labor market and preparing highly qualified statistical personnel who can generate data that decision-makers can use to develop appropriate solutions for any phenomenon." This has placed a significant responsibility on the department's leadership and staff to meet all the professional and ethical requirements of the labor market by instilling the values and ethics of public service in the minds and consciences of the department's students. This necessitates providing them with all relevant up-to-date information in fields such as statistics, mathematics, law, and others, in accordance with the latest advancements in these sciences. The Department of Accounting is considered one of the vital departments in the College of Administration and Economics. Since its establishment, it has attracted highly qualified faculty members with expertise in specializations related to the curriculum and the needs of the labor market in our society, given its close connection to the national economy. The department has also attracted many students over the years whose academic achievements have been recognized through the numerous awards they have received for their distinguished academic standing. This motivated the supervisors of the department to develop and push the department towards modernity and renewal in order to achieve and innovate.

3- Program Objectives

The program's objectives are as follows:

- 1- To prepare highly qualified human resources in the field of statistics.
- 2- To establish the department as a source of information and expertise, enabling it to provide consultations and expertise to governmental institutions and civil society organizations to advance community development.
- 3- To develop knowledge through scientific research and studies in the field of statistics and to encourage researchers to publish research that meets international research standards.
- 4- To provide students with a solid foundation that enables them to work professionally and academically after graduation, thus meeting the demands of the labor market.
- 5- To cultivate ambition and a desire among students to develop statistics in general and overcome their weaknesses.

- 6- To encourage students to conduct research that serves the community and publish it in the college journal or other journals.
- 7- To utilize statistical software and databases in statistical work, planning, auditing, and forecasting.
- 8- To hold conferences, seminars, courses, and workshops in various statistical fields. 9- Contributing to continuing education courses to train, develop and improve the performance efficiency of state employees and other sectors, and providing administrative consultations to relevant authorities.

4- Student Learning Outcomes

1- Knowledge

Stages of Statistical Work

- Keeping abreast of developments in statistics across various fields.
- Knowledge and understanding of the stages of statistical analysis.
- Knowledge and understanding of statistical data collection.
- Knowledge and understanding of statistical forecasting methods.
- Knowledge and understanding of data behavior and its prediction.
- Knowledge and understanding of data management according to statistical systems.
- Ability to evaluate and implement experiments.
- Communication with and adaptation of new and useful information.
- Ability to use readily available software to accomplish required tasks.
- Ability to understand and assume responsibility.
- Communication skills.
- Ability to collaborate with other disciplines to support them.

2- kills

Skills Specific to Statistical Work

- Technical skills in using computers to manage statistical data and its applications.
- Technical skills in dealing with crises and economic problems.
- Skills in developing research capabilities and making statistical decisions.
- Statistical skills in data analysis. • Statistical skills in building statistical models according to the nature of the data.

3- Values

Values acquired by the student upon successful completion of the academic program:

- Developing the student's ability to share ideas.
- Thinking and creativity skills.
- Statistical decision-making skills.
- Planning and creativity skills.

5- Academic Staff

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1	Abbas Lafta Kneehr	PhD	Professor	07710984162	alafta@uowasit.edu.iq
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14	Najlaa Ali Dhumad	Master's	Assistant Lecturer	07725060947	Nalaboody@uowasit.edu.iq
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16	HADIYA Hasan Matrood	Master's	Assistant Lecturer	07735365800	hmatrood@uowasit.edu.iq
17	Ali Hisab Sagban	Master's	Assistant Lecturer	07816761009	alihisab121@gmail.com
18	Mohammad rasol Mohsen	Master's	Professor	07813557685	Malsaffy@uowasit.edu.iq

6- Credits, Grading and GPA

Credits

Wasit University follows the Bologna Process through the European Credit Transfer System (ECTS). The total number of ECTS degree program is 240, 30 ECTS per semester. 1 ECTS is equivalent to 25 student workloads, including structured and unstructured workloads.

Grades

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

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

Calculating the Cumulative Grade Point Average (GPA)

According to the student's graduation average (CGPA), the product of the grade of each course and its weight is added to the number of units (ECTS) for each academic level, then the result is divided by the number of units required for the entire study program mentioned in paragraph (1) of section (a) of this chapter, as shown in the equation below:

$$\text{Student average} = \frac{\text{Total product of (number of units in the course} \times \text{course grade)}}{\text{Total number of units}}$$

If the student has completed the four-year bachelor's degree program, the equation becomes:

$$\text{Graduation rate} = \frac{\text{Total product of (number of units in the course} \times \text{course grade)}}{240}$$

7- Curriculum /Modules

Semester 1 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
ST1101	Principles of Statistics	78	122	8.00	C	
ST1102	Calculus	78	122	8.00	C	
ST1103	Principles of Business Administration	63	87	6.00	B	
ST1104	Principles of Economics	63	87	6.00	B	
UN115	English Language	33	17	2.00	S	

Semester 2 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
ST1201	Statistics	78	122	8.00	C	
ST1202	Integration	78	122	8.00	C	
ST1203	Principles of Accounting	63	87	6.00	B	
UN124	Fundamentals of Computer Science	48	52	4.00	B	
UN125	Arabic Language	33	17	2.00	S	
UN126	Democracy and Human Rights	33	17	2.00	S	

Semester 3 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
STAT2301	Principles of Probability	78	122	8.00	C	
STAT2302	Surveys and Sampling Methods	63	112	7.00	B	
STAT2303	Linear Algebra	63	112	7.00	B	
UN234	Computer Science Methods	48	52	4.00	S	
UN235	Baath Party Crimes in Iraq	33	17	2.00	B	
UN236	Arabic Language	33	17	2.00	S	

Semester 4 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
STAT2401	Probability distributions	78	122	8.00	C	
STAT2402	Differential equations	63	112	7.00	B	
STAT2403	Programming language "MATLAB" or "R"	63	37	4.00	B	
STAT2404	Economic statistics	48	77	5.00	B	
STAT2405	Big data analysis	33	52	4.00	B	
UN246	English language	33	17	2.00	S	

8- Contact

Name	Phone number	Position	Email
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Assist.Lecture. Najlaa Ali Dhamad	07725060947	Statistics Department Coordinator	Nalaboody@uowasit.edu.iq

WASIT UNIVERSITY



Bachelor's of Science Statistics (B.Sc.)



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1. Overview

This catalogue is about the courses (modules) given by the program of statistic to gain the Bachelor of Science degree. The program delivers (23) Modules with (82) total student workload hours and 240 total ECTS. The module delivery is based on the Bologna Process.

2. Undergraduate Courses 2025-2026

Module 1

Code	Course / Module Title	ECTS	Semester
ST1101	Principles of statistics	8	1
Class (hr. / w)	Pra. (hr. / w)	SSWL (hr. / sem)	USWL (hr. / sem)
4	1	78	122
Description			
Statistics is concerned with collecting, summarizing, and classifying data and drawing conclusions from this data in order to overcome problems such as disparity and heterogeneity. This gives this science importance in various other fields of science such as economics, politics, medical and physical sciences, as well as in the social, human and geographical sciences.			

Module 2

Code	Course / Module Title	ECTS	Semester
ST1102	Differentiation	8	1
Class (hr. / w)	Pra. (hr. / w)	SSWL (hr. / sem)	USWL (hr. / sem)
4	1	78	122
Description			
Based on the complete curriculum of the study, the student will be able to understand everything related to the vocabulary of differentiation / Bologna path system / from various definitions, theorems and examples.			

Module 3

Code	Course / Module Title	ECTS	Semester
ST1103	Principles of Business Management	6	1
Class (hr. / w)	Lect. / Tutorial	SSWL (hr. / sem)	USWL (hr. / sem)
3	1	63	87
Description			
The Principles of Management course aims to provide students with a comprehensive scientific foundation for understanding the concept of management and its core functions, while also introducing them to the evolution of management thought and its various schools of thought. It focuses on developing analytical and decision-making skills, bridging the gap between theory and practice, and enhancing teamwork, leadership, and communication abilities, thus preparing students to navigate evolving business environments both locally and internationally.			

Module 4

Code	Course / Module Title	ECTS	Semester
ST1104	Principles of Economics	6	1
Class (hr. / w)	Pra. (hr. / w)	SSWL (hr. / sem)	USWL (hr. / sem)
3	1	63	87
Description			
It aims to define the concept of economics as always being separate from the world it explains, and it also addresses the most important topics, which are divided into three parts: introductory basics, then principles of economics, principles of macroeconomic analysis, and microeconomics.			

Module 5

Code	Course / Module Title	ECTS	Semester
UN115	English language	2	1
Class (hr. / w)	Lecture	SSWL (hr. / sem)	USWL (hr. / sem)
2	2	33	17
Description			
The course aims to develop students' general language skills, with a focus on statistical terminology, enhance reading and writing abilities, and develop English communication skills through interactive listening and speaking activities.			

Module 6

Code	Course / Module Title	ECTS	Semester
ST1201	Statistics	8	2
Class (hr. / w)	Pra. (hr. / w)	SSWL (hr. / sem)	USWL (hr. / sem)
4	1	78	122
Description			
To provide students with a basic understanding of statistical concepts and procedures, develop students' skills in data collection, analysis and interpretation, teach students how to use statistics to solve real-world problems in various fields, enhance the ability to think critically and use statistical methods in decision-making, and prepare students for further advanced study in statistics and related subjects.			

Module 7

Code	Course / Module Title	ECTS	Semester
ST1202	Integration	8	2
Class (hr. / w)	Pra. (hr. / w)	SSWL (hr. / sem)	USWL (hr. / sem)
4	1	78	122
Description			
Based on the complete curriculum of the study, the student will be able to understand everything related to the vocabulary of Integration from various definitions and examples.			

Module 8

Code	Course / Module Title	ECTS	Semester
ST1203	Principles of Accounting	6	2
Class (hr. / w)	Pra. (hr. / w)	SSWL (hr. / sem)	USWL (hr. / sem)
3	1	63	87
Description			
The course aims to familiarize students with the basic principles of accounting and to learn about the origin of accounting and the most prominent theories that dealt with it and to measure the results of the economic unit's work to reach profit or loss, to study the accounting cycle for any accounting process that the unit or economic project goes through during a specific financial period (daily entries.. tabulation, balancing and then transferring them to their specialized accounts in the general ledger until reaching the trial balance and preparing financial reports and statements), to study financing and capital operations, to study how to account for purchases and what is attached to them and for sales and what is attached to them			

Module 9

Code	Course / Module Title	ECTS	Semester
UN124	Fundamentals of Computer Science	4	2
Class (hr. / w)	Lab.	SSWL (hr. / sem)	USWL (hr. / sem)
1	2	48	52
Description			
Providing students with the practical, professional, intellectual knowledge and skills that qualify them to easily deal with the integrated fields of mathematical statistics and computer science, Applying computer science and statistical analysis in studying, identifying, describing, and analyzing statistical and mathematical models, Effectively applying relevant information technology in the field of statistics and computer science.			

Module 10

Code	Course / Module Title	ECTS	Semester
UN125	Arabic Language	2	2
Class (hr. / w)	Lecture	SSWL (hr. / sem)	USWL (hr. / sem)
2	2	33	17
Description			
The course aims to develop students' skills in the Arabic language and enable them to express themselves fluently and accurately, while adhering to the use of standard Arabic and its correct rules, enhancing their ability to write reports and articles in an organized manner, and understanding academic texts, in addition to developing communication skills and commitment to completing tasks within the specified time.			

Module 11

Code	Course / Module Title	ECTS	Semester
UN126	Human Right & Democracy	2	2
Class (hr. / w)	Lecture	SSWL (hr. / sem)	USWL (hr. / sem)
2	2	33	17
Description			
The course aims to promote awareness of human rights and public freedoms, to consolidate the principles of justice, equality, non-discrimination and respect for human dignity, and to develop students' ability to understand their rights and duties and to apply human rights principles in university life and society.			

Module 12

Code	Course / Module Title	ECTS	Semester
STAT2301	Principles of Probability	8	1
Class (hr. / w)	Pra. (hr. / w)	SSWL (hr. / sem)	USWL (hr. / sem)
3	2	78	122
Description			
Delivering lectures in person and using illustrative aids in a detailed manner on the board and using other introductory aids on the electronic display device and real-life examples that can be used, while asking students to prepare research papers on this topic.			

Module 13

Code	Course / Module Title	ECTS	Semester
STAT2302	Surveys and Sampling Methods	7	1
Class (hr. / w)	Pra. (hr. / w)	SSWL (hr. / sem)	USWL (hr. / sem)
2	2	63	112
Description			
The course aims to prepare the student in the basics of Sampling techniques and the possibility of applying them in practical life and the extent of benefit between theory and application.			

Module 14

Code	Course / Module Title	ECTS	Semester
STAT2303	Linear Algebra	7	1
Class (hr. / w)	Pra. (hr. / w)	SSWL (hr. / sem)	USWL (hr. / sem)
2	2	63	112
Description			
This course aims to enhance and develop students' mathematical thinking and equip them with fundamental skills in this field. It also introduces them to the applications and implications of mathematical principles, and enables them to use matrices and vectors in processing and solving statistical models.			

Module 15

Code	Course / Module Title	ECTS	Semester
UN234	Fundamentals of Computer Science	4	1
Class (hr. / w)	Lab. (hr. / w)	SSWL (hr. / sem)	USWL (hr. / sem)
1	2	48	52
Description			
Providing students with the practical, professional, intellectual knowledge and skills that qualify them to easily deal with the integrated fields of mathematical statistics and computer science, Applying computer science and statistical analysis in studying, identifying, describing, and analyzing statistical and mathematical models, Effectively applying relevant information technology in the field of statistics and computer science.			

Module 16

Code	Course / Module Title	ECTS	Semester
UN235	Baath Party crimes in Iraq	2	1
Class (hr. / w)	Lecture	SSWL (hr. / sem)	USWL (hr. / sem)
2	2	33	17
Description			
This course aims to provide a comprehensive general knowledge of all the behaviors of the Baath Party during its rule, to familiarize the student with the crimes committed by the Baath Party and its abuse of power, to familiarize the student with the decisions of the Supreme Criminal Court regarding the trial of Saddam Hussein and his associates, and to familiarize the student with the violations of international law and humanitarian law committed by the Baathist regime.			

Module 17

Code	Course / Module Title	ECTS	Semester
UN236	Arabic Language	2	1
Class (hr. / w)	Lecture	SSWL (hr. / sem)	USWL (hr. / sem)
2	2	33	17
Description			
Developing students' language skills and enabling them to express their ideas and projects fluently in Arabic, encouraging students to avoid using colloquial Arabic or non-Arabic words, writing reports and articles in Arabic in a fluent, accurate, and organized manner, Using Arabic grammar correctly, as language is the primary tool for communication within society, Reading and understanding academic texts in Arabic, developing students' ability to perform and submit tasks on time.			

Module 18

Code	Course / Module Title	ECTS	Semester
STAT2401	Probability Distributions	8	2
Class (hr. / w)	Pra. (hr. / w)	SSWL (hr. / sem)	USWL (hr. / sem)
3	2	78	122
Description			
The study of probability distributions aims to enable students to understand and analyze random data, describe its distribution pattern, and compare its actual distribution with known theoretical distributions. It also covers calculating the probability of different outcomes, understanding and classifying random variables, distinguishing between discrete and continuous variables, and learning how to represent them, find expected values, and calculate the variance that helps predict variable behavior. Furthermore, it teaches students to apply known distributions (such as Bernoulli, Poisson, and the normal distribution) to predict phenomena and make scientifically sound decisions.			

Module 19

Code	Course / Module Title	ECTS	Semester
STAT2402	Differential equations	7	2
Class (hr. / w)	Pra. (hr. / w)	SSWL (hr. / sem)	USWL (hr. / sem)
2	2	63	112
Description			
Based on the complete curriculum of the study, the student will be able to understand everything related to the vocabulary of differential Equations from various definitions and examples.			

Module 20

Code	Course / Module Title	ECTS	Semester
STAT2403	Language Programming "Matlab" or "R"	4	2
Class (hr. / w)	Lab. (hr. / w)	SSWL (hr. / sem)	USWL (hr. / sem)
2	2	63	37
Description			
The R programming language course aims to enable students to understand the fundamentals of programming, handle, organize, and statistically analyze data, extract and present results in clear images and graphs, and build models that aid in prediction and support decision-making, thereby enhancing their skills in scientific research and data-driven problem-solving.			

Module 21

Code	Course / Module Title	ECTS	Semester
STAT2404	Economic Statistics	5	2
Class (hr. / w)	Pra. (hr. / w)	SSWL (hr. / sem)	USWL (hr. / sem)
2	1	48	77
Description			
The aim of the subject of economic statistics is to use statistical methods and means in studying economic phenomena and activities and the relationships between these phenomena in order to benefit from them in determining the trends of variation in economic variables and controlling the value of the phenomenon in future time periods and for the purposes of economic planning.			

Module 22

Code	Course / Module Title	ECTS	Semester
STAT240	Big Data Analytics	4	2
Class (hr. / w)	Lab. (hr. / w)	SSWL (hr. / sem)	USWL (hr. / sem)
2	1	48	52
Description			
The course aims to prepare the student in the basics of Big Data and the possibility of applying them in practical life and the extent of benefit between theory and application.			

Module 23

Code	Course / Module Title	ECTS	Semester
UN246	English language	2	2
Class (hr. / w)	Lecture. (hr. / w)	SSWL (hr. / sem)	USWL (hr. / sem)
2	2	33	17
Description			
Based on the complete curriculum of the study, the student will be able to make sentences using the grammar that learnt and make conversations.			

3- Contact

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Assist.Lecture. Najlaa Ali Dhamad	07725060947	Statistics Department Coordinator	Nalaboody@uowasit.edu.iq

MODULE DESCRIPTION FORM

Module Information				
Module Title	Principles of statistics			Module Delivery
Module Type	Core			☒ Theory
Module Code	ST1101			
ECTS Credits	8			
SWL (hr/sem)	200			
Module Level	1		Semester of Delivery	2
Administering Department	Statistics		College	Administration and Economics
Module Leader	Wafaa Jaffer Hussien		e-mail	wjaffer@uowasit.edu.iq
Module Leader's Acad. Title	Assistant Professor		Module Leader's Qualification	Ph.D
Module Tutor			e-mail	
Peer Reviewer Name			e-mail	
Scientific Committee Approval Date	25/1/2025		Version Number	1.0

Relation with other Modules				
Prerequisite module	none		Semester	none

Module Aims, Learning Outcomes and Indicative Contents

Module Aims	1. Provide students with a basic understanding of statistical concepts and procedures. 2. Develop students' skills in collecting, analyzing and interpreting data. 3. Teach students how to use statistics to solve real-world problems in various fields. 4. Enhance the ability to think critically and use statistical methods in decision making. 5. Prepare students for further advanced study in statistics and related subjects
Module Learning Outcomes	1. Understand and apply basic concepts in statistics: - Know how to calculate and interpret statistical measures such as mean, median, and standard deviation. - Understand the differences between different statistical distributions. 2. Analyze data effectively: - The ability to collect, organize, and analyze data using appropriate statistical tools. - Use statistical software (such as SPSS or Excel) to analyze data. 3. Interpret statistical results: -The ability to interpret and explain the results of statistical analyses in different contexts. - Prepare analytical reports that include conclusions based on the data. 4. Apply statistics to solve practical problems: -The ability to use statistics to solve real-life problems in fields such as economics, social sciences, and public health. 5. Develop critical thinking skills: - Accurately evaluate data and sources - Make informed decisions based on statistical analyses.
Indicative Contents	Introduction to Statistics: Definition of statistics and its types (descriptive and inferential). The importance of statistics in daily life and various fields. Data collection: Data collection methods (questionnaires, interviews, experiments). Data types (quantitative and qualitative). Types of samples: Random samples: Non-random samples: Methods of classifying and organizing data. Measures of central tendency: mean. Median. Mode. harmonic mean Geometric mean

	quadratic mean
	The relationship between these measures and their interpretation

Learning and Teaching Strategies	
Strategies	1. Interactive Teaching: Use interactive lectures to introduce and clarify key concepts to students. Encourage students to actively participate through questioning and group discussions. 2. Project-Based Learning: Assign students practical projects to analyze real data using the statistical methods they have learned. Provide ongoing guidance and feedback during the implementation of projects to enhance learning 3. Practical Training: Conduct practical experiments in laboratories to apply theoretical concepts using statistical tools and software such as SPSS or Excel. Organize practical sessions to introduce students to how software is used in data analysis 4. Problem Solving: Use exercises and case studies to solve real problems using statistical methods. Promote critical thinking by analyzing data results and discussing different solutions. 5. Self-Learning: Provide additional learning resources such as educational videos, guided readings, and software user guides. Encourage students to self-study and explore topics in depth using online resources. 6. Continuous Assessment: Conduct short tests and periodic assessments to monitor students' progress and understanding of concepts. Provide useful feedback to identify areas where students need improvement. 7. Collaborative Learning: Organize group work for data analysis tasks and research projects to promote collaboration among students. Encourage working in small groups to exchange ideas and solve problems collectively. 8. Seminars and Workshops: Organize seminars and workshops to expand knowledge on advanced statistical topics and practical applications

Student Workload (SWL)			
Structured SWL (h/sem)	78	Structured SWL (h/w)	4
Unstructured SWL (h/sem)	122	Unstructured SWL (h/w)	1
Total SWL (h/sem)	200		

Module Evaluation					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	5% (5)	2 and 5	LO #1 and LO #2 and LO #3
	Home Works (online+onsite)	2	5% (16 online+4 onsite)	6 and 10	LO #4 and LO #5 and LO #6 and LO #7
	Report	1	10% (10)	10 and 15	LO #8 and LO #9
Summative assessment	Midterm Exam	2hr	20% (20)	7 and 12	LO #10 and LO #11
	Final Exam	3hr	60% (60)	16	
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Introduction to Statistics: Definition of statistics and its types (descriptive and inferential).
Week 2	The importance of statistics in daily life and various fields.
Week 3	Frequency distributions and methods of displaying data
Week 4	Tabular display of data
Week 5	Mathematical terminology symbols
Week 6	Types of samples: Random samples and non-random sample
Week 7	Solving problems

Week 8	Measures of central tendency: mean.
Week 9	harmonic mean
Week 10	Geometric mean
Week 11	quadratic mean
Week 12	mod
Week 13	median
Week 14	The relationship between these measures and their interpretation
Week 15	Final exam

Learning and Teaching Resources

	Text	Available in the Library?
Required Texts	Introduction to Statistics / Dr. Khashaa Al-Rawi	Yes
Recommended Texts	Statistics / Dr. Mahmoud Al-Mashhadani	Yes
Websites		

Grading Scheme

مخطط الدرجات

Group	Grade	Grade	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	Excellent	90 - 100	Outstanding Performance
	B - Very Good	Very Good	80 - 89	Above average with some errors
	C - Good	Good	70 - 79	Sound work with notable errors
	D - Satisfactory	Average	60 - 69	Fair but with major shortcomings
	E - Sufficient	Acceptable	50 - 59	Work meets minimum criteria
Fail Group	FX – Fail	Fail (Under review)	(45-49)	More work required but credit awarded

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

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

Description
Provide students with a basic understanding of statistical concepts and procedures, Develop students' skills in collecting, analyzing and interpreting data, Teach students how to use statistics to solve real-world problems in various fields, Enhance the ability to think critically and use statistical methods in decision making, Prepare students for further advanced study in statistics and related subjects

MODULE DESCRIPTION FORM

Module Information					
Module Title	Differentiation		Module Delivery		
Module Type	core		☑ Theory		
Module Code	ST1102				
ECTS Credits	6				
SWL (hr/sem)	45				
Module Level		UGx11 1	Semester of Delivery		1
Administering Department		Statistic	College	Administration & Economic	
Module Leader	Jalil Talab Abdullah		e-mail	jabd@uowasit.edu.iq	
Module Leader's Acad. Title		Asst. Prof.	Module Leader's Qualification		M.sc
Module Tutor			e-mail		
Peer Reviewer Name			e-mail	E-mail	
Scientific Committee Approval Date		26/2/2026	Version Number		

Relation with other Modules			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents	
Module Objectives	Based on the complete curriculum of the study, the student will be able to understand everything related to the vocabulary of differentiation / Bologna path system / from various definitions, theorems and examples.

Module Learning Outcomes	The student is widely acquainted with the details of differentiation and its role in various and comprehensive mathematical methods.
Indicative Contents	Developing students' abilities to share ideas

Learning and Teaching Strategies	
Strategies	Giving physical lectures and using illustrative means in the manner of detailed explanation on the board and using innovative introductory means of mathematical problems that can be used in future studies by preparing research papers in pure and applied mathematics.

Student Workload (SWL)			
Structured SWL (h/sem)	109	Structured SWL (h/w)	7
Unstructured SWL (h/sem)	91	Unstructured SWL (h/w)	6
Total SWL (h/sem)	200		

Module Evaluation					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	10	10% (10)	5 and 10	LO #1, #2 and #10, #11
	Assignments	10	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Presentation	10	10% (10)	Continuous	All
	Report	10	10% (10)	13	LO #5, #8 and #10
Summative assessment	Midterm Exam	10	10% (10)	7	LO #1 - #7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Basic concepts (Functions, Domain, co-domain and Range
Week 2	Some kinds of functions
Week 3	The Derivative of functions
Week 4	Techniques of differentiation
Week 5	The chain rule
Week 6	Implicit differentiation
Week 7	Higher derivatives
Week 8	Derivatives of algebraic trigonometric and exponential functions and their inverses
Week 9	Hyperbolic functions and their derivative
Week 10	Application of derivative in mathematical economics and Polar coordinates
Week 11	Minimum, maximum and inflection points, increasing , decreasing, concave up and concave down intervals
Week 12	Curve sketching, functions of two or more variables with examples
Week 13	Partial derivatives and total partial derivatives
Week 14	The chain rule, applications
Week 15	Final exam

Delivery Plan (Weekly Lab. Syllabus)	
	Material Covered
Week 1	
Week 2	

Week 3	
Week 4	
Week 5	
Week 6	
Week 7	

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts	1- Principles of Mathematics for Administration Students / Written by Prof. Dr. Dhafer Hussein Rashid 2- Principles of Mathematics / Calculus / Dr. Ali Aziz Ali Abdul Razzaq Ali Al-Hassoun	Limited
Recommended Texts		
Websites		

Grading Scheme				
Group	Grade	Grade	Marks %	Definition
Success Group (50 - 100)	A - Excellent	Excellent	90 - 100	Outstanding Performance
	B - Very Good	Very Good	80 - 89	Above average with some errors
	C - Good	Good	70 - 79	Sound work with notable errors
	D - Satisfactory	Average	60 - 69	Fair but with major shortcomings
	E - Sufficient	Acceptable	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	Fail (Under Review)	(45-49)	More work required but credit awarded
	F – Fail	Fail	(0-44)	Considerable amount of work required

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

Description
Based on the complete curriculum of the study, the student will be able to understand everything related to the vocabulary of Differentiation from various definitions and examples.

MODULE DESCRIPTION FORM

Module Information			
Module Title	Principles of Business Management		Module Delivery
Module Type	Basic		☒ Theory
Module Code	STAT1103		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	1	Semester of Delivery	1
Administering Department	Statistic	College	Administration and Economics
Module Leader	Mustafa Rahman Hasan	e-mail	Mustafa.rahman@uowasit.edu.iq
Module Leader's Acad. Title	Assistant teacher	Module Leader's Qualification	Ms. c
Module Tutor		e-mail	
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date	20/2/2026	Version Number	1.0

Relation with other Modules			
Prerequisite module		Semester	
Co-requisites module		Semester	

Module Aims, Learning Outcomes and Indicative Contents	
Module Objectives	Based on the complete curriculum, the student will be able to understand all aspects of business administration vocabulary through various definitions and examples.
Module Learning Outcomes	The student has extensive knowledge of the details of business administration and its role in various economic and administrative fields.

Indicative Contents	Developing students' abilities to share ideas
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Learning and Teaching Strategies	
Strategies	Delivering practical lectures and using illustrative methods such as detailed explanations on the blackboard and using innovative introductory methods for mathematical problems that can be used in future studies by preparing research papers in business administration.

Student Workload (SWL)			
Structured SWL (h/sem)	63	Structured SWL (h/w)	4
Unstructured SWL (h/sem)	87	Unstructured SWL (h/w)	
Total SWL (h/sem)	150		

Module Evaluation					
As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	10	10% (10)	5 and 10	LO #1, #2 and #10, #11
	Assignments	10	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Presentation	10	10% (10)	Continuous	All
	Report	10	10% (10)	13	LO #5, #8 and #10
Summative assessment	Midterm Exam	10	10% (10)	7	LO #1 - #7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
Week	Material Covered
Week 1	Administrative organization
Week 2	Basic principles of organization and communication
Week 3	Leadership and guidance
Week 4	Motivation and incentive
Week 5	Administrative Control
Week 6	Business Organization Functions (Production and Operations Management)
Week 7	Business Organizations Functions (Marketing Management)
Week 8	Business Organizations Jobs (Human Resources Management)
Week 9	Business Organizations Functions (Financial Management)
Week 10	Business Organizations' Functions (Research and Development)
Week 11	Business Organizations Functions (Managing Creativity and Organizational Change)
Week 12	Business organization functions (performance evaluation and quality management)
Week 13	Strategic Management
Week 14	Information and Knowledge Systems Management
Week 15	Final exam

Delivery Plan (Weekly Lab. Syllabus)	
Week	Material Covered
Week 1	
Week 2	

Week 3	
Week 4	
Week 5	
Week 6	
Week 7	

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts	Prof. Khudair Kadhim Hammoud	Limited
Recommended Texts	Business Management Principles	
Websites		

Grading Scheme			
Group	Grade	Marks %	Definition
Success Group (50 - 100)	A - Excellent	90 - 100	Outstanding Performance
	B - Very Good	80 - 89	Above average with some errors
	C - Good	70 - 79	Sound work with notable errors
	D - Satisfactory	60 - 69	Fair but with major shortcomings
	E - Sufficient	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	(45-49)	More work required but credit awarded
	F – Fail	(0-44)	Considerable amount of work required

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

Description
Based on the complete curriculum, the student will be able to understand all aspects of business administration vocabulary through various definitions and examples.

MODULE DESCRIPTION FORM

Module Information					
Module Title	Principles of economics		Module Delivery		
Module Type	Basic		☒ Theory		
Module Code	ST1104				
ECTS Credits	6				
SWL (hr/sem)	200				
Module Level		1	Semester of Delivery		1
Administering Department		Statistic	College	Administration and Economics	
Module Leader	Ali Jaffar nadhar		e-mail	anedhr@uowasit.edu.iq	
Module Leader's Acad. Title		Lecture	Module Leader's Qualification		M.sc
Module Tutor			e-mail		
Peer Reviewer Name			e-mail		
Scientific Committee Approval Date		2025/2 /11	Version Number		1.0

Relation with other Modules				
Prerequisite module	None		Semester	
Co-requisites module	None		Semester	

Module Aims, Learning Outcomes and Indicative Contents	
Module Objectives	It aims to define the concept of economics as always being separate from the world it explains, and it also addresses the most important topics, which are

	divided into three parts: introductory basics, then principles of economics, principles of macroeconomic analysis, and microeconomics.
Module Learning Outcomes	1- Identify the concept of economics? 2- Identify the origin of economics? 3- Identify the methods of economic analysis and economic theory? 4- Know the theory of consumer equilibrium? 5- The concept of supply and its implications, the law of supply and the factors affecting supply? 6- Identify the general framework for determining the price in the market? 7- Define the concept of production, production factors and the production function? 8- Identify the basic functions of the market mechanism?
Indicative Contents	

Learning and Teaching Strategies	
Strategies	Today, the economy has become the lifeblood of society and in all sectors of the national economy, as it has transcended national borders to the politics of the global economy, and the interest of economic principles is focused on the management of the facility (industrial facility, economic facility), regardless of the nature of its ownership, whether public, private or mixed. The facility is an organization whose purpose is to provide goods and services to society to achieve economic returns from its operations, in addition to a set of other objectives

Student Workload (SWL)			
Structured SWL (h/sem)	63	Structured SWL (h/w)	3
Unstructured SWL (h/sem)	87	Unstructured SWL (h/w)	
Total SWL (h/sem)	150		

Module Evaluation					
As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	10	10% (10)	5 and 10	LO #1, #2 and #10, #11
	Assignments	10	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Projects / Lab.	10	10% (10)	Continuous	All
	Report	10	10% (10)	13	LO #5, #8 and #10
Summative assessment	Midterm Exam	2hr	10% (10)	7	LO #1 - #7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
Week	Material Covered
Week 1	Basic Economic Concepts
Week 2	The economic problem, its nature and characteristics, treatment of the economic problem in different economic systems.
Week 3	Demand theory. Concept of demand. Demand schedule and curve. Law of demand and its exceptions and determinants of demand (change in demand volume)
Week 4	Elasticity of demand. Definition of elasticity and its types. Methods of measuring it. Importance of the study. Elasticity of demand. Its applications.
Week 5	Elasticity of demand. Definition of elasticity and its types. Methods of measuring it. Importance of the study. Elasticity of demand. Its applications.
Week 6	The concept of utility and the theory of consumer behavior. The classical theory. And the assumptions of the theory. Types of utility and the law of accumulation of marginal utility. Consumer equilibrium according to the theory of utility.

Week 7	Contemporary Theory (Indifference Curves) The concept of indifference curve, indifference map, characteristics of indifference curves, consumer equilibrium according to indifference curve theory
Week 8	First month exam
Week 9	(Production Theory) The concept of production, factors of production, production function, types of functions, the concept of total product, average product, marginal product, the law of diminishing returns, characteristics of production, economic stage
Week 10	Costs and revenues. Production costs, concept of costs, types of costs, cost curves, cost rates and curves in the short run, concept of revenues and curves, relationship between costs and revenues and achieving equilibrium in economic units
Week 11	Markets, pricing and equilibrium) Market concept, types of markets, market functions, firm equilibrium in all markets
Week 12	Distribution theory) (Wages, meaning of wages, types of wages, determining wages) (Rent, meaning of rent, types of rent, determining rent) (Interest, its concept, interpretation, determining the interest rate) Profit is understood, its types
Week 13	National income) The concept of national income and its importance, national product, domestic product, methods of calculation, circular flow of income and national product, factors affecting national product, contemporary theory of income and employment, classical theory of income, employment and equilibrium, and Keynesian theory of income, employment and equilibrium
Week 14	(Money and Banking) The concept of money, types of money, functions of money. Monetary policy, its concept and tools, types of banks, basic functions (commercial banks, credit banks, specialized banks) Central banks, their functions. Fiscal policy, its concept, its tools
Week 15	(Inflation and unemployment) The concept of inflation, types of inflation, theories explaining the phenomenon of inflation, effects of inflation and its treatment. The concept of unemployment, types of unemployment, causes and effects of unemployment and its treatment

Delivery Plan (Weekly Lab. Syllabus)

Week	Material Covered
Week 1	
Week 2	
Week 3	
Week 4	
Week 5	
Week 6	
Week 7	

Learning and Teaching Resources

	Text	Available in the Library?
Required Texts	Principles of Economics with an Emphasis a Focus on Macroeconomics – 2013 Professor Dr. Kamel Al- Fatlawi - Professor Dr.Hassan Latif Al- Zubaidi	yes
Recommended Texts		
Websites		

Grading Scheme

Group	Grade	Grade	Marks %	Definition
Success Group (50 - 100)	A - Excellent	Excellent	90 - 100	Outstanding Performance
	B - Very Good	Very Good	80 - 89	Above average with some errors
	C - Good	Good	70 - 79	Sound work with notable errors
	D - Satisfactory	Average	60 - 69	Fair but with major shortcomings

	E - Sufficient	Acceptable	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	Fail (Under Review)	(45-49)	More work required but credit awarded
	F – Fail	Fail	(0-44)	Considerable amount of work required

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

MODULE DESCRIPTION FORM

Module Information			
Module Title	English language		Module Delivery
Module Type	Suport		☑ Theory
Module Code	UN115		
ECTS Credits	2		
SWL (hr/sem)	50		
Module Level	1	Semester of Delivery	1
Administering Department	Statistics	College	College of Administration and Economics
Module Leader	Nagham Fadhil Hussain	e-mail	nahussain@uowasit.edu.iq
Module Leader's Acad. Title	Assistant Lecturer	Module Leader's Qualification	Asst. Lect.
Module Tutor		e-mail	
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date	1/3/2026	Version Number	1.0

Relation with other Modules			
Prerequisite module		Semester	
Co-requisites module		Semester	

Module Aims, Learning Outcomes and Indicative Contents	
Module Aims	1. Acquiring general language skills. 2. Acquiring terms associated with the statistics. 3. The ability to read and write. 4. Developing communication skills through interactive activities such as listening and speaking in English.

Module Learning Outcomes	Reading and Writing Comprehension (Cognitive-Understanding & Applying) • Reading statistics academic and economic texts and understanding key ideas and supporting details. • Writing summaries, short reports and academic correspondence using correct English. 2. Oral and listening skills (Communication – Listening & Speaking) • Understand lectures and conversations related to the statistics. • Participate in class discussions and make short presentations in English. 3. Language and technical skills (Application & Analysis): • Accurately use statistics and technical terminology in writing and conversation. • Analyze and interpret statistics information and data in English. 4. Critical and problem-solving skills (Analysis & Evaluation) • Evaluate statistics texts and summarize key points. • Apply language skills in solving academic problems associated with the statistics. 5. Synthesis & Professional Skills: • Communicate effectively in an academic and professional environment using English. • Integrate linguistic knowledge with economic digital concepts to deliver clear and accurate content
Indicative Contents	1. • Review basic grammar, including tenses, conjunctions, adjectives and adverbs, to develop the ability to construct correct sentences. 2. • Expanding academic vocabulary with a focus on terminology related to the statistics. 3. • Applying language skills in reading short texts and analyzing their basic ideas. 4. • Reading medium-length digital academic and economic texts, understanding their content, and analyzing key ideas and supporting details. 5. • Apply language knowledge in statistics academic, professional and economic contexts. 6. • Preparing and presenting short presentations, taking into account the use of the correct technical language. 7. • Writing short academic reports and official correspondence in English. 8. • Analyze and explain data and information in English

Learning and Teaching Strategies	
Strategies	1. • Classroom Discussions: Motivate students to participate in group discussions on statistics texts and academic articles 2. (Collaborative Learning): Divide students into groups to work on common tasks, such as preparing presentations or writing group reports 3. • Question-Based Learning: Use analytical and critical questions to understand texts and encourage critical thinking.

	4. • Role-playing: Simulate statistics professional or academic situations, such as meetings or economic discussions, to develop speaking and listening skills 5. Self-directed Learning: Encourage students to read additional resources and research topics related to the course to increase independent learning and critical thinking skills. 6. E-learning Use e-learning platforms to support the learning material, and make additional resources and materials available to students online. 7. Student Presentations: Students prepare presentations on course topics to develop their communication and presentation skills. 8. These strategies work together integrally to enhance students' academic and practical skills, and to ensure that they interact effectively and sustainably with the subject
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Student Workload (SWL)			
Structured SWL (h/sem)	33	Structured SWL (h/w)	2
Unstructured SWL (h/sem)	17	Unstructured SWL (h/w)	
Total SWL (h/sem)	50		

Module Evaluation					
As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	10	10% (10)	5 and 10	LO #1, #2 and #10, #11
	Assignments	10	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Presentation	10	10% (10)	Continuou s	All
	Report	10	10% (10)	13	LO #5, #8 and #10
Summative assessment	Midterm Exam	10	10% (10)	7	LO #1 - #7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
Week	Material Covered
Week 1	Unit one: Hello Acquire social manner, like introduction and greeting and how make simple sentence.
Week 2	Unit 2: your world Know his environment as some cities, the phone numbers and some scientific terms.
Week 3	Unit3: All about you Know some information's about his identity
Week 4	Unit4: family and friends Exercises and solutions Know how to use the possessives Review
Week 5	Unit 5: The way live Know some nationalities and countries, the present simple
Week 6	Unit 6: Every day Exercises and solutions Know how to arrange the times and preference Review
Week 7	Unit 7: My favorites How to use pronouns and the questions words
Week 8	EXAM
Week 9	Unit 8: Where I live Know house parts and furniture Write paragraph
Week 10	Unit 9: Times past Learn the past tense Scientific terms
Week 11	Unit 10: We had a great time Exercises and solutions Know the importance of doing homework and some sports Review
Week 12	Unit 11: I can do that Use the model verb can Write paragraphs
Week 13	Unit:12 Please and thank you The present continues tense How to use means of transportation

Week 14	Unit 13: Here and now Unit 14: It's times to go Exercise and solution Express with full sentences about good manner Review
Week 15	EXAM
Week 16	Preparations for final exam

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts	New Headway Pulse for Beginners, John and Liz Soars, Oxford	Yes
Recommended Texts		
Websites		

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

Description
Based on the complete curriculum of the study, the student will be able to make sentences using the grammar that learnt and make conversations.

MODULE DESCRIPTION FORM

Module Information			
Module Title	Statistics		Module Delivery
Module Type	Core		☑ Theory
Module Code	ST1201		
ECTS Credits	8		
SWL (hr/sem)	200		
Module Level	1	Semester of Delivery	2
Administering Department	Statistics	College	Administration and Economics
Module Leader	Wafaa Jaffer Hussien	e-mail	wjaffer@uowasit.edu.iq
Module Leader's Acad. Title	Assistant Professor	Module Leader's Qualification	Ph.D
Module Tutor	Wafaa Jaffer Hussien	e-mail	wjaffer@uowasit.edu.iq
Peer Reviewer Name	none	e-mail	none
Scientific Committee Approval Date	1/3/2025	Version Number	1.0

Relation with other Modules			
Prerequisite module	none	Semester	none

Module Aims, Learning Outcomes and Indicative Contents	
Module Aims	1. Provide students with a basic understanding of statistical concepts and procedures. 2. Develop students' skills in collecting, analyzing and interpreting data. 3. Teach students how to use statistics to solve real-world problems in various fields. 4. Enhance the ability to think critically and use statistical methods in decision making. 5. Prepare students for further advanced study in statistics and related subjects
Module Learning Outcomes	1. Understand and apply basic concepts in statistics: - Know how to calculate and interpret statistical measures such as mean, median, and standard deviation. - Understand the differences between different statistical distributions. 2. Analyze data effectively: - The ability to collect, organize, and analyze data using appropriate statistical tools. - Use statistical software (such as SPSS or Excel) to analyze data. 3. Interpret statistical results: -The ability to interpret and explain the results of statistical analyses in different contexts. - Prepare analytical reports that include conclusions based on the data. 4. Apply statistics to solve practical problems: -The ability to use statistics to solve real-life problems in fields such as economics, social sciences, and public health. 5. Develop critical thinking skills: - Accurately evaluate data and sources - Make informed decisions based on statistical analyses.
Indicative Contents	Introduction to Statistics: Definition of statistics and its types (descriptive and inferential). The importance of statistics in daily life and various fields. Data collection: Data collection methods (questionnaires, interviews, experiments). Data types (quantitative and qualitative). Types of samples: Random samples: Non-random samples: Methods of classifying and organizing data. Measures of central tendency: mean. Median. Mode. harmonic mean Geometric mean quadratic mean

	The relationship between these measures and their interpretation
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Learning and Teaching Strategies	
Strategies	9. Interactive Teaching: Use interactive lectures to introduce and clarify key concepts to students. Encourage students to actively participate through questioning and group discussions. 10. Project-Based Learning: Assign students practical projects to analyze real data using the statistical methods they have learned. Provide ongoing guidance and feedback during the implementation of projects to enhance learning 11. Practical Training: Conduct practical experiments in laboratories to apply theoretical concepts using statistical tools and software such as SPSS or Excel. Organize practical sessions to introduce students to how software is used in data analysis 12. Problem Solving: Use exercises and case studies to solve real problems using statistical methods. Promote critical thinking by analyzing data results and discussing different solutions. 13. Self-Learning: Provide additional learning resources such as educational videos, guided readings, and software user guides. Encourage students to self-study and explore topics in depth using online resources. 14. Continuous Assessment: Conduct short tests and periodic assessments to monitor students' progress and understanding of concepts. Provide useful feedback to identify areas where students need improvement. 15. Collaborative Learning: Organize group work for data analysis tasks and research projects to promote collaboration among students. Encourage working in small groups to exchange ideas and solve problems collectively. 16. Seminars and Workshops: Organize seminars and workshops to expand knowledge on advanced statistical topics and practical applications

Student Workload (SWL)			
Structured SWL (h/sem)	78	Structured SWL (h/w)	5
Unstructured SWL (h/sem)	122	Unstructured SWL (h/w)	
Total SWL (h/sem)	200		

Module Evaluation				
	Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome

Formative assessment	Quizzes	2	5% (5)	2 and 5	LO #1 and LO #2 and LO #3
	Home Works (online+onsite)	2	5% (16 online+4 onsite)	6 and 10	LO #4 and LO #5 and LO #6 and LO #7
	Report	1	10% (10)	10 and 15	LO #8 and LO #9
Summative assessment	Midterm Exam	2hr	20% (20)	7 and 12	LO #10 and LO #11
	Final Exam	3hr	60% (60)	16	
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

	Material Covered
Week 1	Measures of dispersion/range/mean deviation (for classified and non-classified data)
Week 2	Variance and standard deviation (for classified and non-classified data)
Week 3	Measures of relative dispersion and z score
Week 4	Simple correlation coefficient, r , and
Week 5	Spearman's rank correlation coefficient
Week 6	partial correlation coefficient
Week 7	multiple correlation coefficient
Week 8	Coefficient of compatibility
Week 9	coupling coefficient
Week 10	Regression, its objectives,
Week 11	Simple linear regression
Week 12	multiple linear regression
Week 13	Monthly exam
Week 14	Discuss research and discuss daily assignments
Week 15	Final exam

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts	Introduction to Statistics / Dr. Khashaa Al-Rawi	Yes
Recommended Texts	Statistics / Dr. Mahmoud Al-Mashhadani	Yes
Websites		

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

Description
Provide students with a basic understanding of statistical concepts and procedures, Develop students' skills in collecting, analyzing and interpreting data, Teach students how to use statistics to solve real-world problems in various fields, Enhance the ability to think critically and use statistical methods in decision making, Prepare students for further advanced study in statistics and related subjects

MODULE DESCRIPTION FORM

Module Information					
Module Title	Integration		Module Delivery		
Module Type	core		☑ Theory		
Module Code	ST1202				
ECTS Credits	5				
SWL (hr/sem)	45				
Module Level		1	Semester of Delivery		2
Administering Department		Statistic	College	Administration & Economic	
Module Leader	Jalil Talab Abdullah		e-mail	jabd@uowasit.edu.iq	
Module Leader's Acad. Title		Asst. Prof.	Module Leader's Qualification		M.sc
Module Tutor			e-mail		
Peer Reviewer Name			e-mail		
Scientific Committee Approval Date		26/2/2026	Version Number		

Relation with other Modules				
Prerequisite module	None		Semester	
Co-requisites module	None		Semester	

Module Aims, Learning Outcomes and Indicative Contents	
Module Objectives	Based on the complete curriculum of the study, the student will be able to understand everything related to the vocabulary of integration / Bologna path system / from various definitions, theorems and examples.
Module Learning Outcomes	The student is widely acquainted with the details of integration and its role in various and comprehensive mathematical methods.
Indicative Contents	Developing students' abilities to share ideas

Learning and Teaching Strategies	
Strategies	Giving physical lectures and using illustrative means in the manner of detailed explanation on the board and using innovative introductory means of mathematical problems that can be used in future studies by preparing research papers in pure and applied mathematics.

Student Workload (SWL)			
Structured SWL (h/sem)	109	Structured SWL (h/w)	7
Unstructured SWL (h/sem)	91	Unstructured SWL (h/w)	6
Total SWL (h/sem)	200		

Module Evaluation					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	10	10% (10)	5 and 10	LO #1, #2 and #10, #11
	Assignments	10	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Presentation	10	10% (10)	Continuous	All
	Report	10	10% (10)	13	LO #5, #8 and #10
Summative assessment	Midterm Exam	10	10% (10)	7	LO #1 - #7
	Final Exam	3hr	50% (50)	16	All

Total assessment	100% (100 Marks)		
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Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Indefinite and definite integral
Week 2	Integrals involving logarithmic and exponential functions
Week 3	Integrals involving logarithmic and exponential functions
Week 4	Direct integration (integration in inverse operator of differentiation)
Week 5	Integration by parts
Week 6	Trigonometric substitutions
Week 7	Rational functions and partial fraction
Week 8	Definite integration and Riemann sums & Applications
Week 9	Area under the curve
Week 10	Area between two curves
Week 11	double integrals
Week 12	Area using double integrals
Week 13	Area using double integrals
Week 14	Area using double integrals
Week 15	امتحان الفصل الدراسي الثاني

Delivery Plan (Weekly Lab. Syllabus)	
	Material Covered
Week 1	
Week 2	

Week 3	
Week 4	
Week 5	
Week 6	
Week 7	

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts	3- Principles of Mathematics for Administration Students / Written by Prof. Dr. Dhafer Hussein Rashid 4- Principles of Mathematics / Calculus / Dr. Ali Aziz Ali Abdul Razzaq Ali Al-Hassoun	Limited
Recommended Texts		
Websites		

Grading Scheme				
Group	Grade	Grade	Marks %	Definition
Success Group (50 - 100)	A - Excellent	Excellent	90 - 100	Outstanding Performance
	B - Very Good	Very Good	80 - 89	Above average with some errors
	C - Good	Good	70 - 79	Sound work with notable errors
	D - Satisfactory	Average	60 - 69	Fair but with major shortcomings
	E - Sufficient	Acceptable	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	Fail (Under Review)	(45-49)	More work required but credit awarded
	F – Fail	Fail	(0-44)	Considerable amount of work required

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

Description
Based on the complete curriculum of the study, the student will be able to understand everything related to the vocabulary of Integration from various definitions and examples.

MODULE DESCRIPTION FORM

Module Information					
Module Title	Principles of Accounting		Module Delivery		
Module Type	Basic		☑ Theory		
Module Code	ST1203				
ECTS Credits	6				
SWL (hr/sem)	150				
Module Level		1	Semester of Delivery	2	
Administering Department		Statistic	College	Administration & Economic	
Module Leader	Hanaa Qasim Mathboob		e-mail	Hmathbob@uowasit.edu.iq	
Module Leader's Acad. Title		Asst. Lecture.	Module Leader's Qualification		M.sc
Module Tutor			e-mail		
Peer Reviewer Name			e-mail		
Scientific Committee Approval Date		2026/02/20	Version Number	1.0	

Relation with other Modules			
Prerequisite module		Semester	
Co-requisites module		Semester	

Module Aims, Learning Outcomes and Indicative Contents	
Module Objectives	The course aims to familiarize students with the basic principles of accounting and to learn about the origin of accounting and the most prominent theories that dealt with it and to measure the results of the economic unit's work to reach profit or loss, to study the accounting cycle for any accounting process that the unit or economic project goes through during a specific financial period (daily entries.. tabulation, balancing and then transferring them to their specialized accounts in the general ledger until reaching the trial balance and preparing financial reports and statements), to study financing and capital operations, to study how to account for purchases and what is attached to them and for sales and what is attached to them

Module Learning Outcomes	1. Familiarity with the concept of accounting principles. 2. Familiarity with the importance of accounting in business companies. 3. Acquiring the skill of preparing financial statements. 4. Acquiring the skill of preparing accounting entries. 5. Familiarity with the branches of accounting,
Indicative Contents	The guidance content includes the following: 1-Guiding and guiding students on the importance of attendance, not being absent, and not being late. 2- Continuous communication via the electronic class

Learning and Teaching Strategies	
Strategies	1. Discussion groups 2. Scientific reports 3. Environmental assignments 4. Brainstorming method

Student Workload (SWL)			
Structured SWL (h/sem)	63	Structured SWL (h/w)	4
Unstructured SWL (h/sem)	87	Unstructured SWL (h/w)	
Total SWL (h/sem)	150		

Module Evaluation					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	10	10% (10)	5 and 10	LO #1, #2 and #10, #11
	Assignments	10	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Presentation	10	10% (10)	Continuous	All

	Report	10	10% (10)	13	LO #5, #8 and #10
Summative assessment	Midterm Exam	2hr	10% (10)	7	LO #1 - #7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Introduction to Financial Accounting - Accounting Concept and Objectives - Accounting Fields and Beneficiaries - Accounting Cycle
Week 2	An overview of accounting concepts, assumptions and principles
Week 3	Recording financial transactions Budget method - Single entry method
Week 4	Recording Financial Transactions Double Entry Method - Accounting Records
Week 5	Capital Operations - Capital Formation - Capital Increase - Capital Reduction
Week 6	Capital Operations - Personal Withdrawals - Loans and Interest
Week 7	Capital Operations Capital and Revenue Expenditures Exercises on Capital Operations
Week 8	Exam + Merchandise Operations Purchases
Week 9	Purchase Returns and Allowances

	Purchase Expenses
Week 10	Sales Sales Returns and Allowances
Week 11	Beginning and ending goods Trade discount
Week 12	Cash Discount Quantity Discount
Week 13	Commercial papers Incoming and outgoing instruments
Week 14	Commercial papers Bills of exchange (Payment papers and receivable papers(
Week 15	Introduction to Financial Accounting - Accounting Concept and Objectives - Accounting Fields and Beneficiaries - Accounting Cycle

Delivery Plan (Weekly Lab. Syllabus)

	Material Covered
Week 1	
Week 2	
Week 3	
Week 4	
Week 5	
Week 6	
Week 7	

Learning and Teaching Resources

	Text	Available in the Library?
Required Texts	Principles of Accounting – Miqdad Ahmed and Fouad Suleiman Zako, University of Mosul Press, 2000	Limited
Recommended Texts	Financial Accounting Principles – Dr. Safaa Ahmed Al-Ani and Hakim Al-Saadi, 2014	

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

Description
This decision was designed to enhance their critical thinking skills and provide them with a foundational understanding of the field. It also introduces them to basic accounting principles and their implications, enabling them to use the ledger to grasp essential concepts.

MODULE DESCRIPTION FORM

Module Information			
Module Title	Fundamentals of Computer Science		Module Delivery
Module Type	Basic		☒ Theory ☒ Lab
Module Code	UN124		
ECTS Credits	4		
SWL (hr/sem)	100		
Module Level	1	Semester of Delivery	2
Administering Department	Statistic	College	Administration & Economic
Module Leader	Riyadh Tareq Oglah	e-mail	ralsaeedi@uowasit.edu.iq
Module Leader's Acad. Title	Assist. Lecture	Module Leader's Qualification	M.sc
Module Tutor		e-mail	
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date	25/2/2026	Version Number	1.0

Relation with other Modules			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents

Module Objectives	1-Providing students with the practical, professional, intellectual knowledge and skills that qualify them to easily deal with the integrated fields of mathematical statistics and computer science. 2- Applying computer science and statistical analysis in studying, identifying, describing, and analyzing statistical and mathematical models. 3- Effectively applying relevant information technology in the field of statistics and computer science.
Module Learning Outcomes	1-Understanding computer basics 2-Identifying computer components (Hardware & Software) and operating systems. 3-Managing data efficiently 4-Entering and organizing data using programs such as Excel.
Indicative Contents	Developing students' abilities to share ideas

Learning and Teaching Strategies

Strategies	Delivering in-person lectures and using illustrative methods through detailed explanations on the board, as well as utilizing other informational tools on the electronic projector and real-life examples that can be used, while asking students to prepare research papers on this topic.
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Student Workload (SWL)

Structured SWL (h/sem)	52	Structured SWL (h/w)	3
Unstructured SWL (h/sem)	48	Unstructured SWL (h/w)	
Total SWL (h/sem)	100		

Module Evaluation

As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	10	10% (10)	5 and 10	LO #1, #2 and #10, #11
	Assignments	10	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Presentation	10	10% (10)	Continuous	All

	Report	10	10% (10)	13	LO #5, #8 and #10
Summative assessment	Midterm Exam	2hr	10% (10)	7	LO #1 - #7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

	Material Covered
Week 1	Introduction to Computers
Week 2	Physical Components (Hardware)
Week 3	Software Components (Software)
Week 4	Running Microsoft Word
Week 5	Home Tab
Week 6	Page Layout Group, Page Setup, Page Background
Week 7	Insert Tab and Tables Group
Week 8	Table Tools Tab, Table Design Tab, and Layout Tab
Week 9	Illustrations Group, Picture Tools, Links Group
Week 10	PowerPoint , Running the Program and Program Interfaces
Week 11	Opening a Presentation, Creating a New Presentation, and Saving a Presentation in Another Format
Week 12	Page Setup, Themes Group, and Background
Week 13	Introduction to Artificial Intelligence
Week 14	Introduction to Cybersecurity
Week 15	Final exam

Delivery Plan (Weekly Lab. Syllabus)

	Material Covered
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Week 1	Introduction + Word Basics
Week 2	Title Styles Creating an Automatic Table of Contents Inserting Images and Charts Margins and Numbering
Week 3	Introduction to Excel + Data Entry
Week 4	Statistical Functions in Excel
Week 5	Charts
Week 6	Advanced Tools in Excel
Week 7	Applied Project

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts	Computer Basics and Its Office Applications Ministry of Higher Education and Scientific Research Prof. Ziad Mohammed Aboud, Prof. Ghassan Hamid Abdul Majeed, Dr. Mustafa Diao Al-Hassani	Limited
Recommended Texts		
Websites		

Grading Scheme			
Group	Grade	Marks %	Definition
Success Group (50 - 100)	A - Excellent	90 - 100	Outstanding Performance
	B - Very Good	80 - 89	Above average with some errors
	C - Good	70 - 79	Sound work with notable errors
	D - Satisfactory	60 - 69	Fair but with major shortcomings

	E - Sufficient	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	(45-49)	More work required but credit awarded
	F – Fail	(0-44)	Considerable amount of work required

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

Description
Providing students with the practical, professional, intellectual knowledge and skills that qualify them to easily deal with the integrated fields of mathematical statistics and computer science, Applying computer science and statistical analysis in studying, identifying, describing, and analyzing statistical and mathematical models, Effectively applying relevant information technology in the field of statistics and computer science.

MODULE DESCRIPTION FORM

Module Information				
Module Title	Arabic			Module Delivery
Module Type	Suport			☑ Theory
Module Code	Un125			
ECTS Credits	2			
SWL (hr/sem)	50			
Module Level	2	Semester of Delivery	1	
Administering Department	Statistics	College	Administration and Economics	
Module Leader	Saif Al-Din Nasser Khazal		e-mail	skhazaal@uowasit.edu.iq
Module Leader's Acad. Title	Lecture	Module Leader's Qualification	Ph.D	
Module Tutor			e-mail	
Peer Reviewer Name			e-mail	
Scientific Committee Approval Date	1/11/2025	Version Number	1.0	

Relation with other Modules			
Prerequisite module	Nothing that helps in learning Arabic helps in developing reading and writing skills.	Semester	none

Module Aims, Learning Outcomes and Indicative Contents	
Module Aims	1. Developing students' language skills and enabling them to express their ideas and projects fluently in Arabic. 2. Encouraging students to avoid using colloquial Arabic or non-Arabic words. 3- Writing reports and articles in Arabic in a fluent, accurate, and organized manner. 4- Using Arabic grammar correctly, as language is the primary tool for communication within society. 5- Reading and understanding academic texts in Arabic. 6- Developing students' ability to perform and submit tasks on time.
Module Learning Outcomes	Upon completion of this course, students will be able to: 1. Read, write, and speak Arabic fluently. 2. Use Arabic to communicate effectively in academic and 3- To become familiar with linguistic and literary expressions. 4- To demonstrate an understanding of the importance of Arabic language skills for success in engineering. 5- To apply critical thinking and problem-solving skills in real-world situations. 6- To contribute to increasing students' knowledge of how to prepare scientific reports.
Indicative Contents	Grammar (12 hours) Spelling (8 hours) Literature (6 hours) General Skills (4 hours)

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Learning and Teaching Strategies

Strategies	1. Theoretical lectures are delivered, and the most important information is identified by extracting key words and ideas. 2. Students are given opportunities to produce language and receive direct feedback to improve their language skills 17.
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Student Workload (SWL)

Structured SWL (h/sem)	33	Structured SWL (h/w)	2
Unstructured SWL (h/sem)	17	Unstructured SWL (h/w)	0
Total SWL (h/sem)	50		

Module Evaluation

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	10	10% (10)	5, 10	LO #1, 2, 10 and 11
	Home Works	10	10% (10)	2, 12	LO # 3, 4, 6 and 7
	(online+onsite)	10	10% (10)	continuous	All
	Report	10	10% (10)	13	LO # 5, 8 and 10
Summative assessment	Midterm Exam	2hr	10% (10)	7	LO # 1-7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

	Material Covered
Week 1-2	The importance of language, and Arabic in particular, and the reasons for teaching Arabic.
Week 3-4	Calligraphy, its history and development, Arabic script, its types, and the stages of its dotting and development.
Week 5	Surah Al-Kahf (The Blessed Cave(
Week 6	Abbasid-era poet - Di'bil al-Khuza'i
Week 7	The poet Muhammad Mahdi al-Jawahiri
Week 8	The poet Badr Shakir al-Sayyab
Week 9	Parts of speech in Arabic
Week 10	exam
Week 11	The upright alif and the short alif / Sun letters and moon letters
Week 12	The difference between ض and ظ
Week-13	Plurals in Arabic
Week 14	Number and counted noun
Week 15	Common linguistic errors
Week 16	Reviews

Learning and Teaching Resources

	Text	Available in the Library?
Required Texts	1. Ibn Aqil's commentary on Ibn Malik's Alfiyyah, edited by Muhyi al-Din Abd al-Hamid. 2.s tudies in Pre-Islamic Arab History, by Muhammad Bayumi Mahran The Book of Poetry and Poets, by Ibn Qutaybah al-Dinawari Dr. Shawky Daif.(	Yes

Recommended Texts	Explanation of Ibn Aqil and other grammatical methodological books.	Yes
Websites		

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

Description
Developing students' language skills and enabling them to express their ideas and projects fluently in Arabic, encouraging students to avoid using colloquial Arabic or non-Arabic words, writing reports and articles in Arabic in a fluent, accurate, and organized manner, Using Arabic grammar correctly, as language is the primary tool for communication within society, Reading and understanding academic texts in Arabic, developing students' ability to perform and submit tasks on time.

MODULE DESCRIPTION FORM

Module Information				
Module Title	Human Right & Democracy			Module Delivery
Module Type	S			☑ Theory
Module Code	UN126			
ECTS Credits	2			
SWL (hr/sem)	50			
Module Level	1	Semester of Delivery	1	
Administering Department	Statistics	College	Administration and Economics	
Module Leader's Acad. Title	Assistant teacher		Module Leader's Qualification	
Module Tutor	Abeer tareef razak		e-mail	Arazak@uowasit.edu.iq
Peer Reviewer Name	none		e-mail	none
Scientific Committee Approval Date	20/2/2026		Version Number	1.0

Relation with other Modules			
Prerequisite module	none	Semester	none

Module Aims, Learning Outcomes and Indicative Contents	
Module Aims	
Module Learning Outcomes	Cognitive objectives (broadening horizons) Establishing Concepts: Introducing students to the fundamental concepts of human rights, their historical roots, and their evolution throughout the ages (from ancient civilizations to the Universal Declaration of Human Rights). • Understanding Political Systems: Explaining the concept of democracy, its types (direct and indirect), and how constitutional institutions function.

	• Legal Awareness: Familiarizing students with international conventions and national legislation that protect human dignity. 2. Behavioral and Value-Based Objectives (Character Development) • Promoting a Culture of Tolerance: Spreading the values of accepting others and respecting cultural, religious, and ethnic diversity • Developing Critical Thinking: Enabling students to analyze and evaluate political and social realities based on the principles of rights and freedoms • Good Citizenship: Instilling a sense of responsibility towards society and encouraging students to actively participate in public life. 3. Skills-Based Objectives (Practical Application) • Defending Rights: Equipping students with the legal and civil mechanisms to claim their rights and protect the rights of others peacefully. • Practicing Democracy: Training in the tools of dialogue, debate, elections, and how to make collective decisions.
Indicative Contents	

Learning and Teaching Strategies	
Strategies	Delivering lectures in person and using illustrative aids in a detailed manner on the board and using other introductory aids on the electronic display device and real-life examples that can be used, while asking students to prepare research papers on this topic.

Student Workload (SWL)			
Structured SWL (h/sem)	33	Structured SWL (h/w)	2
Unstructured SWL (h/sem)	17	Unstructured SWL (h/w)	
Total SWL (h/sem)	50		

Module Evaluation				
	Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome

Formative assessment	Quizzes	2	5% (5)	2 and 5	LO #1 and LO #2 and LO #3
	Home Works (online+onsite)	2	5% (16 online+4 onsite)	6 and 10	LO #4 and LO #5 and LO #6 and LO #7
	Report	1	10% (10)	10 and 15	LO #8 and LO #9
Summative assessment	Midterm Exam	2hr	20% (20)	7 and 12	LO #10 and LO #11
	Final Exam	3hr	60% (60)	16	
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Definition of human rights, their characteristics (universality, indivisibility), and their importance
Week 2	Human rights in ancient civilizations (Hammurabi, the Nile Valley) and monotheistic religions
Week 3	The Three Generations of Human Rights (Civil, Economic, and Solidarity Rights)
Week 4	The Universal Declaration of Human Rights (1948): An analysis of its articles and its legal significance.
Week 5	International Covenant on Civil and Political Rights
Week 6	The International Covenant on Economic, Social and Cultural Rights.
Week 7	Protecting human rights: The role of the United Nations, the International Criminal Court, and non-governmental organizations (such as Amnesty International)
Week 8	First exam
Week 9	Civil and political rights: the right to life, liberty, personal security, and freedom of opinion and expression.
Week 10	The relationship between human rights and democracy (pluralism, peaceful transfer of power).
Week 11	Human rights in the constitution and national laws (the practical aspect in your country).
Week 12	Guarantees for the protection of human rights nationally (the judiciary, parliamentary oversight, and civil society institutions).
Week 13	Types of democracy
Week 14	Applications to democracies
Week 15	Second exam

Learning and Teaching Resources
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	Text	Available in the Library?
Required Texts	Human rights and democracy	Yes
Recommended Texts		No
Websites		

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

Description
Qualifying, training and teaching the student on the rules and methods of derivative of various functions and their mathematical applications in our daily lives and benefiting from them in the curriculum of advanced mathematics for other levels while solving different equations and linking them with the rest of the other topics. Differentiation lectures in the first course are given in two parts, the first one in the classroom which involve 3 theoretical hours and 1 hour of discussion to clarify the topics in more detail each week which is defined SSWL (structural student work load) and the second part is defined as USSWL (unstructured student work load) which include all activity out the class.

MODULE DESCRIPTION FORM

Module Information				
Module Title	Principles of Probability			Module Delivery
Module Type	Core			☒ Theory
Module Code	STAT2301			
ECTS Credits	8			
SWL (hr/sem)	200			
Module Level	2		Semester of Delivery	1
Administering Department	Statistics		College	Administration and Economics
Module Leader	Dr .Hameedah Khdoer Ibrahim		e-mail	halakeely@uowasit.edu.iq
Module Leader's Acad. Title	Lecture		Module Leader's Qualification	Ph. D
Module Tutor			e-mail	
Peer Reviewer Name			e-mail	
Scientific Committee Approval Date	1/3/2026		Version Number	1.0

Relation with other Modules			
Prerequisite module		Semester	

Module Aims, Learning Outcomes and Indicative Contents	
Module Aims	Contribute to preparing the student as he should be It is capable of employing multiple and varied statistics. Methods in the field of possibilities so that it can be Use them optimally for the purpose of assistance In working on mathematical models and using them in the study Reaching the best model, and teaching students how to apply it to phenomena in society in the future Which leads to raising the level of student thinking Regarding applied aspects.
Module Learning Outcomes	This chapter focuses on combining theory and practice. Various theories are presented, such as probability in general, conditional probability, properties of probability, as well as permutations and combinations, Bayes' theorem, and probability distributions. Furthermore, real-world examples are provided for all theoretical concepts.
Indicative Contents	Probability is concerned with collecting and summarizing theories, finding conclusions, and applying them in practical reality. It is important in various other scientific fields such as economics, medical and physical sciences, as well as in biological sciences and mathematics.

Learning and Teaching Strategies	
Strategies	Delivering lectures in person and using illustrative aids in a detailed manner on the board and using other introductory aids on the electronic display device and real-life examples that can be used, while asking students to prepare research papers on this topic.

Student Workload (SWL)			
Structured SWL (h/sem)	78	Structured SWL (h/w)	5
Unstructured SWL (h/sem)	122	Unstructured SWL (h/w)	
Total SWL (h/sem)	200		

Module Evaluation					
As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	5% (5)	2 and 5	LO #1 and LO #2 and LO #3
	Home Works (online+onsite)	2	5% (16 online+4 onsite)	6 and 10	LO #4 and LO #5 and LO #6 and LO #7
	Report	1	10% (10)	10 and 15	LO #8 and LO #9
Summative assessment	Midterm Exam	2hr	20% (20)	7 and 12	LO #10 and LO #11
	Final Exam	3hr	60% (60)	16	
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
Week	Material Covered
Week 1	Probability components
Week 2	Ordering - Permutations - Combinations
Week 3	Sample space, accidents
Week 4	Approximate probability
Week 5	separate events
Week 6	A set of probability laws
Week 7	Conditional probability
Week 8	First exam
Week 9	Independent events
Week 10	Bay's rule
Week 11	Definition of random variables
Week 12	Cumulative distribution function
Week 13	Probability mass function
Week 14	Probability density function

Week 15	Loss function
Week 16	2 nd EXAM

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts	1- Munaf , Entsar, Omar (2018) "Introduction Probability Theory" dhad Press . 2- Epps, T.W;(2013) " Probability and Statistical Theory for Applied Researchers ";university of Virginia ,world scientific Co, USA. 3- Mood, Alexander M, Graybill,Franklin A(1974)," Introduction to The Theory Statistical ",McGraw-Hill Inc3 rd ed,USA.	Yes
Recommended Texts		Yes
Websites		

Grading Scheme			
Group	Grade	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	90 - 100	Outstanding Performance
	B - Very Good	80 - 89	Above average with some errors
	C - Good	70 - 79	Sound work with notable errors
	D - Satisfactory	60 - 69	Fair but with major shortcomings
	E - Sufficient	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	(45-49)	More work required but credit awarded
	F – Fail	(0-44)	Considerable amount of work required

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

Description
Delivering lectures in person and using illustrative aids in a detailed manner on the board and using other introductory aids on the electronic display device and real-life examples that can be used, while asking students to prepare research papers on this topic.

MODULE DESCRIPTION FORM

Module Information				
Module Title	Sampling techniques			Module Delivery
Module Type	Basic			☒ Theory
Module Code	STAT2302			
ECTS Credits	7			
SWL (hr/sem)	175			
Module Level	2		Semester of Delivery	1
Administering Department	Statistics		College	Administration and Economics
Module Leader	zainab kadhun mezher		e-mail	zmezher@uowasit.edu.iq
Module Leader's Acad. Title	Assistant Professor		Module Leader's Qualification	Ph. D
Module Tutor			e-mail	
Peer Reviewer Name			e-mail	
Scientific Committee Approval Date	1/9/2025		Version Number	1.0

Relation with other Modules			
Prerequisite module			Semester

Module Aims, Learning Outcomes and Indicative Contents	
Module Aims	The course aims to prepare the student in the basics of statistical surveys and the possibility of applying them in practical life and the extent of benefit between theory and application.
Module Learning Outcomes	Explaining the material theoretically and presenting it to the students, while solving practical exercises on the board with the students' participation and encouraging them to solve them manually, in order to enhance their confidence and highlight their scientific capabilities in understanding the academic material.
Indicative Contents	How to choose a simple random sample, estimating symbols and terms, estimating the mean and total of the population Estimating the variance of the population mean and total and confidence limits for the population mean and total, estimating the proportion, testing the sample size to estimate the mean What is stratified sampling? Sample weights in stratified sampling. Distribution of observations on the stratum. Definition of the stratum. Estimating the mean and total of the population, estimating the variance of the arithmetic mean and total of the population, choosing the sample size to estimate the mean and total, estimating the proportion How to choose a systematic sample, estimating the mean and total of the population Estimating the variance of the mean and total of the population, estimating the size of a repeated systematic random sample Estimating the ratio R for a simple random sample, estimating the mean and the total using the ratio, choosing the sample size (to estimate the ratio, to estimate the mean and the total using R) Estimating the ratio in a stratified sample First month exam Estimating the mean and total using proportions in a stratified sample, estimating differences in a simple and stratified sample, estimating regression in a simple and stratified sample Choosing a sample size to estimate the mean and total, cluster random sampling in a stratified population, estimating the ratio, choosing a sample size to estimate the ratio estimate the mean and total Discuss and solve exercises Simple random sampling, estimating the ratio R DictionDiscuss and solve exercises Examples of theories and their practical application DictionDiscuss and solve exercises Double sampling and stratification, regression ratio in double sampling Optimal distribution in double sampling Optimal distribution Discuss and solve exercises

	Various examples of theories and their practical application Various examples Discuss and solve exercises Second month exam
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Learning and Teaching Strategies	
Strategies	18. Interactive Teaching: Use interactive lectures to introduce and clarify key concepts to students. Encourage students to actively participate through questioning and group discussions. 19. Project-Based Learning: Assign students practical projects to analyze real data using the statistical methods they have learned. Provide ongoing guidance and feedback during the implementation of projects to enhance learning 20. Practical Training: Conduct practical experiments in laboratories to apply theoretical concepts using statistical tools and software such as SPSS or Excel. Organize practical sessions to introduce students to how software is used in data analysis 21. Problem Solving: Use exercises and case studies to solve real problems using statistical methods. Promote critical thinking by analyzing data results and discussing different solutions. 22. Self-Learning: Provide additional learning resources such as educational videos, guided readings, and software user guides. Encourage students to self-study and explore topics in depth using online resources. 23. Continuous Assessment: Conduct short tests and periodic assessments to monitor students' progress and understanding of concepts. Provide useful feedback to identify areas where students need improvement. 24. Collaborative Learning: Organize group work for data analysis tasks and research projects to promote collaboration among students. Encourage working in small groups to exchange ideas and solve problems collectively. 25. Seminars and Workshops: Organize seminars and workshops to expand knowledge on advanced statistical topics and practical applications

Student Workload (SWL)			
Structured SWL (h/sem)	63	Structured SWL (h/w)	4
Unstructured SWL (h/sem)	112	Unstructured SWL (h/w)	
Total SWL (h/sem)	175		

Module Evaluation					
As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	5% (5)	2 and 5	LO #1 and LO #2 and LO #3
	Home Works (online+onsite)	2	5% (16 online+4 onsite)	6 and 10	LO #4 and LO #5 and LO #6 and LO #7
	Report	1	10% (10)	10 and 15	LO #8 and LO #9
Summative assessment	Midterm Exam	2hr	20% (20)	7 and 12	LO #10 and LO #11
	Final Exam	3hr	60% (60)	16	
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
Week	Material Covered
Week 1	How to choose a simple random sample, estimating symbols and terms, estimating the mean and total of the population
Week 2	Estimating the variance of the population mean and total and confidence limits for the population mean and total, estimating the proportion, testing the sample size to estimate the mean
Week 3	What is stratified sampling? Sample weights in stratified sampling. Distribution of observations on the stratum. Definition of the stratum.

Week 4	Estimating the mean and total of the population, estimating the variance of the arithmetic mean and total of the population, choosing the sample size to estimate the mean and total, estimating the proportion
Week 5	How to choose a systematic sample, estimating the mean and total of the population
Week 6	Estimating the variance of the mean and total of the population, estimating the size of a repeated systematic random sample
Week 7	Estimating the ratio R for a simple random sample, estimating the mean and the total using the ratio, choosing the sample size (to estimate the ratio, to estimate the mean and the total using R) Estimating the ratio in a stratified sample
Week 8	First month exam
Week 9	Estimating the mean and total using proportions in a stratified sample, estimating differences in a simple and stratified sample, estimating regression in a simple and stratified sample
Week 10	Choosing a sample size to estimate the mean and total, cluster random sampling in a stratified population, estimating the ratio, Choosing a sample size to estimate the ratio
Week 11	Simple random sampling, estimating the ratio R
Week 12	Examples of theories and their practical application
Week 13	Double sampling and stratification, regression ratio in double sampling Optimal distribution in double sampling
Week 14	Various examples of theories and their practical application
Week 15	Second month exam

Learning and Teaching Resources

	Text	Available in the Library?
Required Texts		Yes
Recommended Texts		Yes
Websites		

Grading Scheme

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

Description
The course aims to prepare the student in the basics of Sampling techniques and the possibility of applying them in practical life and the extent of benefit between theory and application.

MODULE DESCRIPTION FORM

Module Information				
Module Title	Linear Algebra		Module Delivery	
Module Type	Basic		☑ Theory	
Module Code	STAT2303			
ECTS Credits	7			
SWL (hr/sem)	175			
Module Level	2	Semester of Delivery	1	
Administering Department	Statistic	College	Administration & Economic	
Module Leader	Emaeel Ali Hamad		e-mail	EsmaeelAli.Alaselmawi@uowasit.edu.iq
Module Leader's Acad. Title	Asst. Lecture.	Module Leader's Qualification	M.sc	
Module Tutor			e-mail	
Peer Reviewer Name			e-mail	
Scientific Committee Approval Date	2026/02/20	Version Number	1.0	

Relation with other Modules			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents	
Module Objectives	This course aims to enhance and develop students' mathematical thinking and equip them with fundamental skills in this field. It also introduces them to the applications and implications of mathematical principles, and enables them to use matrices and vectors in processing and solving statistical models.
Module Learning Outcomes	The student should apply the concepts of vectors, matrices, and operations on them in solving linear systems using methods such as Gaussian elimination and Cramer's law, and should interpret vector spaces, linear independence, rules, and dimensions, and relate them to linear transformations, values, and eigenvectors.
Indicative Contents	Developing students' abilities to share ideas

Learning and Teaching Strategies	
Strategies	The material was explained theoretically and presented to the students, along with practical exercises on the board, with the participation of the students, and they were encouraged to solve the exercises manually in order to enhance their confidence and highlight their scientific capabilities in understanding the subject matter.

Student Workload (SWL)			
Structured SWL (h/sem)	63	Structured SWL (h/w)	4
Unstructured SWL (h/sem)	112	Unstructured SWL (h/w)	
Total SWL (h/sem)	175		

Module Evaluation					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	10	10% (10)	5 and 10	LO #1, #2 and #10, #11
	Assignments	10	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Presentation	10	10% (10)	Continuous	All
	Report	10	10% (10)	13	LO #5, #8 and #10
Summative assessment	Midterm Exam	2hr	10% (10)	7	LO #1 - #7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Definition of a Matrix
Week 2	Diagonal Matrices
Week 3	Matrix Transpose
Week 4	Matrix Conjugate
Week 5	Matrix Determinant
Week 6	Matrix Inverse
Week 7	Elementary Operations and Equivalent Matrices
Week 8	Solving Linear Equations
Week 9	Vectors
Week 10	Vectors in Two-Space
Week 11	Vectors in Three-Space
Week 12	Linear Models
Week 13	Regression Analysis
Week 14	Correlation
Week 15	Final exam

Delivery Plan (Weekly Lab. Syllabus)	
	Material Covered
Week 1	
Week 2	
Week 3	
Week 4	
Week 5	
Week 6	
Week 7	

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts	Algebra book (Professor Dr. Abdul Majeed Hamza Al-Nasser)	Limited
Recommended Texts		
Websites		

Grading Scheme				
Group	Grade	Grade	Marks %	Definition
Success Group (50 - 100)	A - Excellent	Excellent	90 - 100	Outstanding Performance
	B - Very Good	Very Good	80 - 89	Above average with some errors
	C - Good	Good	70 - 79	Sound work with notable errors
	D - Satisfactory	Average	60 - 69	Fair but with major shortcomings
	E - Sufficient	Acceptable	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	Fail (Under Review)	(45-49)	More work required but credit awarded
	F – Fail	Fail	(0-44)	Considerable amount of work required

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

Description
This course aims to enhance and develop students' mathematical thinking and equip them with fundamental skills in this field. It also introduces them to the applications and implications of mathematical principles, and enables them to use matrices and vectors in processing and solving statistical models.

MODULE DESCRIPTION FORM

Module Information					
Module Title	Fundamentals of Computer Science		Module Delivery		
Module Type	Suport		☒ Theory ☒ Lab		
Module Code	UN234				
ECTS Credits	4				
SWL (hr/sem)	100				
Module Level		2	Semester of Delivery		1
Administering Department		Type Dept. Code	College	Type College Code	
Module Leader	Riyadh Tareq Oglah		e-mail	ralsaeedi@uowasit.edu.iq	
Module Leader's Acad. Title		Assist. Lecture	Module Leader's Qualification		
Module Tutor			e-mail		
Peer Reviewer Name			e-mail		
Scientific Committee Approval Date		25/2/2026	Version Number		1.0

Relation with other Modules				
Prerequisite module	None		Semester	
Co-requisites module	None		Semester	

Module Aims, Learning Outcomes and Indicative Contents	
Module Objectives	The Computer Skills course aims to enable students to: 1. Equip students with basic and advanced skills in using computers and their various applications. 2. Enhance understanding of the concepts of network and information security and their importance in protecting data and systems. 3. Introduce students to the fundamentals of artificial intelligence and its modern applications in practical life. 4. Develop students' analytical and critical thinking in dealing with digital technologies. 5. Promote awareness of digital ethics and the safe, responsible use of technology. 6. Prepare students to keep pace with rapid technological advancements in the fields of computers, networks, and artificial intelligence.
Module Learning Outcomes	Upon completion of this course, the student is expected to be able to: 1. Use computers, operating systems, and basic applications efficiently. 2. Explain fundamental concepts of network security, such as cyber threats, firewalls, and encryption. 3. Distinguish between types of cyberattacks and methods of prevention. 4. Apply basic cybersecurity measures to protect devices and data. 5. Clarify the concept of artificial intelligence and its main fields, such as machine learning and natural language processing. 6. Analyze practical examples of AI applications in education, healthcare, and security. 7. Adhere to ethical principles in the use of technology and data. 8. Work within teams to solve simple technical problems using computer tools.
Indicative Contents	This unit covers the concept of promotional subscriptions and their importance in digital marketing, explaining their types and mechanisms. It includes an introduction to subscription methods for digital services and electronic platforms, and outlines the benefits that promotional offers provide to both users and organizations. It also focuses on aspects related to subscriber data protection, information security, and awareness of the safe and responsible use of subscriptions, in addition to learning about subscription management methods and avoiding digital fraud.

Learning and Teaching Strategies	
Strategies	Delivering in-person lectures and using illustrative methods through detailed explanations on the board, as well as utilizing other informational tools on the

	electronic projector and real-life examples that can be used, while asking students to prepare research papers on this topic.
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Student Workload (SWL)			
Structured SWL (h/sem)	48	Structured SWL (h/w)	3
Unstructured SWL (h/sem)	52	Unstructured SWL (h/w)	
Total SWL (h/sem)	100		

Module Evaluation					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5 and 10	LO #1, #2 and #10, #11
	Assignments	2	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Projects / Lab.	1	10% (10)	Continuous	All
	Report	1	10% (10)	13	LO #5, #8 and #10
Summative assessment	Midterm Exam	2hr	10% (10)	7	LO #1 - #7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	What is a Network?
	Types of Networks
	Basic Network Components

Week 2	Basics of Network Security Understanding Threats
Week 3	E-commerce
Week 4	Computer Troubleshooting and Repair
Week 5	Introduction to Artificial Intelligence
Week 6	Key Characteristics of AI Benefits of AI Challenges and Ethics
Week 7	AI Technologies
Week 8	First Monthly Exam
Week 9	Role of AI in Modern Smartphones
Week 10	AI Applications and Tools
Week 11	AI Applications and Tools [(Transportation and Marketing)]
Week 12	AI Applications and Tools (Finance Robotics and Automation Technologies)
Week 13	AI and Society
Week 14	Ethical Challenges in AI
Week 15	Second Exam
Week 16	Pre-Final Exam Preparation Week

Delivery Plan (Weekly Lab. Syllabus)	
	Material Covered
Week 1	Introduction to Statistical Functions
Week 2	Measures of Central Tendency
Week 3	Measures of Dispersion
Week 4	Maximum, Minimum, and Ranking
Week 5	Counting Functions

Week 6	Conditional Statistical Functions
Week 7	Data Analysis and Statistical Summary

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts	Graham Brawn, David, "Cambridge IGCSE Information and Communication Technology" Ahmed Banafa, "Introduction to Artificial Intelligence"	No
Recommended Texts	Microsoft Office 2019 step by step	Yes
Websites		

Grading Scheme			
Group	Grade	Marks %	Definition
Success Group (50 - 100)	A - Excellent	90 - 100	Outstanding Performance
	B - Very Good	80 - 89	Above average with some errors
	C - Good	70 - 79	Sound work with notable errors
	D - Satisfactory	60 - 69	Fair but with major shortcomings
	E - Sufficient	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	(45-49)	More work required but credit awarded
	F – Fail	(0-44)	Considerable amount of work required

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

Description

Providing students with the practical, professional, intellectual knowledge and skills that qualify them to easily deal with the integrated fields of mathematical statistics and computer science, Applying computer science and statistical analysis in studying, identifying, describing, and analyzing statistical and mathematical models, Effectively applying relevant information technology in the field of statistics and computer science.

MODULE DESCRIPTION FORM

Module Information			
Module Title	Baath Party crime in Iraq		Module Delivery
Module Type	Basic		☒ Theory
Module Code	Un235		
ECTS Credits	2		
SWL (hr/sem)	50		
Module Level	1	Semester of Delivery	2
Statistic Department	Statistic	College	College of Management and Economic
Module Leader	Abeer tareef razak	e-mail	Arazak@uowasit.edu.iq
Module Leader's Acad. Title	Assistant teacher	Module Leader's Qualification	Master
Module Tutor		e-mail	
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date		Version Number	

Relation with other Modules			
Prerequisite module		Semester	
Co-requisites module		Semester	

Module Aims, Learning Outcomes and Indicative Contents	
Module Objectives	. 1. To create a comprehensive general knowledge of all the Ba'ath Party's behaviors during its rule . 2. To familiarize the student with the crimes committed by the Ba'ath Party and its abuse of power.

	3. To familiarize the student with the decisions of the Supreme Criminal Court regarding the trial of Saddam Hussein and his associates . 4. To familiarize the student with the violations of international and humanitarian law committed by the Ba'athist regime
Module Learning Outcomes	1. Understanding Crimes and Their Categories 2. Understanding Types of International Crimes 3 3. Understanding Psychological and Social Crimes 4. Mechanisms and Effects of Psychological Crimes 5. . Social Crimes and the Militarization of Society 6. Understanding the Ba'athist Regime's Stance on Religion 7. Understanding the Ba'athist regime's violations of Iraqi laws 8. Understanding some of the decisions regarding political and military violations committed by the Ba'ath Party regime 9. Understanding the locations of prisons and detention centers used by the Ba'ath Party regime 10. Understanding the environmental crimes committed by the Ba'athist regime in Iraq 11. Knowledge of war and radioactive contamination, mine explosions, and contamination with radioactive materials. 12. Knowledge of the scorched earth policy, the crime of draining the marshes, and the bulldozing of palm groves, trees, and crops. 13. Knowledge of the crimes of mass graves/genocide committed by the Ba'athist regime. 14. Chronological classification of genocide graves in Iraq from 1969 to 2003. 15. End-of-course exam
Indicative Contents	
	1. To graduate individuals with knowledge and understanding of all aspects of the crimes committed by the Ba'ath Party in Iraq. 2. To make students realize the importance of including the Ba'ath Party among banned political parties. 3. To build a generation that believes in the importance of respecting human rights and adhering to international laws and norms

Learning and Teaching Strategies	
Strategies	1. Discussion groups 2. Scientific reports 3. Environmental assignments 4. Brainstorming method

Student Workload (SWL)			
Structured SWL (h/sem)	33	Structured SWL (h/w)	4
Unstructured SWL (h/sem)	17	Unstructured SWL (h/w)	8
Total SWL (h/sem)	50		

تقييم المادة الدراسية					
الوقت/العدد	الوزن (الدرجة)	الأسبوع المستحق	نتائج التعلم ذات الصلة		
2	20%(10)	2	15-1	Daily Quizzes	Formative assessment
1	5%(5)	-	All of them	Homework	
1	5%(5)	-	All of them	College Assignments	
-	-	-	-	Projects/Lab	
2	10%(5)	5، 10	All of them	Reports	
-	-	-	-	Seminars	
1 hour	10%(10)	13		Midterm Exam	Summative assessment
3 hours	50%(50)	16		Final Exam	
Overall assessment		100%(100)			

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Concept of crime
Week 2	Definition of crim
Week 3	Types of international crime

Week 4	Cases considered by the High Criminal Court in 2005
Week 5	Psychological and social crimes and their effect
Week 6	The Ba'athist regime's stance on religio
Week 7	The Ba'ath regime's violation of Iraqi law
Week 8	8-Exam
Week 9	Images of Ba'ath regime human
Week 10	Prisons and detention centers used by the Ba'ath regime in Iraq
Week 11	Environmental crimes committed by the Ba'ath regime in Ira
Week 12	War and radioactive pollution in Iraq
Week 13	13-Second month exam
Week 14	14-Review the above
Week 15	15-Test and discussions

Delivery Plan (Weekly Lab. Syllabus)

	Material Covered
Week 1	
Week 2	
Week 3	
Week 4	
Week 5	
Week 6	
Week 7	

Learning and Teaching Resources

	Text	Available in the Library?
Required Texts	- Dr. Qais Nasser and Professor Abdulhadi Maatouq, the subject of Ba'ath Party crime	yes
Recommended Texts		

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

MODULE DESCRIPTION FORM

Module Information				
Module Title	Arabic			Module Delivery
Module Type	SUPPORT			☑ Theory
Module Code	Un236			
ECTS Credits	2			
SWL (hr/sem)	50			
Module Level	2	Semester of Delivery		
Administering Department	Statistic		College	Administration and Economics
Module Leader	Saif Al-Din Nasser Khazal		e-mail	skhazaal@uowasit.edu.iq
Module Leader's Acad. Title	LECUTRE		Module Leader's Qualification	Ph.D
Module Tutor			e-mail	
Peer Reviewer Name			e-mail	
Scientific Committee Approval Date	1/11/2025		Version Number	1.0

Relation with other Modules				
Prerequisite module	Nothing that helps in learning Arabic helps in developing reading and writing skills.		Semester	none

Module Aims, Learning Outcomes and Indicative Contents

Module Aims	1. Developing students' language skills and enabling them to express their ideas and projects fluently in Arabic. 2. Encouraging students to avoid using colloquial Arabic or non-Arabic words. 3- Writing reports and articles in Arabic in a fluent, accurate, and organized manner. 4- Using Arabic grammar correctly, as language is the primary tool for communication within society. 5- Reading and understanding academic texts in Arabic. 6- Developing students' ability to perform and submit tasks on time.
Module Learning Outcomes	Upon completion of this course, students will be able to: 1. Read, write, and speak Arabic fluently. 2. Use Arabic to communicate effectively in academic and 3- To become familiar with linguistic and literary expressions. 4- To demonstrate an understanding of the importance of Arabic language skills for success in engineering. 5- To apply critical thinking and problem-solving skills in real-world situations. 6- To contribute to increasing students' knowledge of how to prepare scientific reports.
Indicative Contents	Grammar (12 hours) Spelling (8 hours) Literature (6 hours) General Skills (4 hours)

Learning and Teaching Strategies

Strategies	1. Theoretical lectures are delivered, and the most important information is identified by extracting key words and ideas. 2. Students are given opportunities to produce language and receive direct feedback to improve their language skills
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Student Workload (SWL)			
Structured SWL (h/sem)	17	Structured SWL (h/w)	2
Unstructured SWL (h/sem)	33	Unstructured SWL (h/w)	
Total SWL (h/sem)	50		

Module Evaluation					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	10	10% (10)	5, 10	LO #1, 2, 10 and 11
	Home Works	10	10% (10)	2, 12	LO # 3, 4, 6 and 7
	(online+onsite)	10	10% (10)	continuous	All
	Report	10	10% (10)	13	LO # 5, 8 and 10
Summative assessment	Midterm Exam	2hr	10% (10)	7	LO # 1-7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1-2	Ages of Arabic Literature
Week 3-4	Pre-Islamic poetry and its characteristics
Week 5-6	Poets of the pre-Islamic era, the poet Al-A'sha
Week 7	Rhetoric in the Islamic era
Week 8	Islamic literature and its characteristics

Week 9	exam
Week 10	oets of the Umayyad era, the poet Al-Farazdaq
Week 11-12	The concept of linguistic errors, rules for writing the closed taa and the open taa
Week 13	The standing alif and the short alif are the solar letters and the lunar letters
Week 14	The difference between the letters Dhad and Tha
Week-15	Solar and lunar letters, the difference between the letters Ḍād and Ḍā
Week-16	Reviews

Learning and Teaching Resources

	Text	Available in the Library?
Required Texts	1. Ibn Aqil's commentary on Ibn Malik's Alfiyyah, edited by Muhyi al-Din Abd al-Hamid. 2.s tudies in Pre-Islamic Arab History, by Muhammad Bayumi Mahran The Book of Poetry and Poets, by Ibn Qutaybah al-Dinawari Dr. Shawky Daif.(	Yes
Recommended Texts	3.Explanation of Ibn Aqil and other grammatical methodological books	Yes
Websites		

Grading Scheme

Group	Grade	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	90 - 100	Outstanding Performance
	B - Very Good	80 - 89	Above average with some errors
	C - Good	70 - 79	Sound work with notable errors
	D - Satisfactory	60 - 69	Fair but with major shortcomings
	E - Sufficient	50 - 59	Work meets minimum criteria

Fail Group (0 – 49)	FX – Fail	(45-49)	More work required but credit awarded
	F – Fail	(0-44)	Considerable amount of work required

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

Description
Developing students' language skills and enabling them to express their ideas and projects fluently in Arabic, encouraging students to avoid using colloquial Arabic or non-Arabic words, writing reports and articles in Arabic in a fluent, accurate, and organized manner, Using Arabic grammar correctly, as language is the primary tool for communication within society, Reading and understanding academic texts in Arabic, developing students' ability to perform and submit tasks on time.

MODULE DESCRIPTION FORM

Module Information				
Module Title	Distribution Probability			Module Delivery
Module Type	Core			☒ Theory
Module Code	STAT2401			
ECTS Credits	8			
SWL (hr/sem)	200			
Module Level	2		Semester of Delivery	2
Administering Department	Statistics		College	Administration and Economics
Module Leader	Hameedah Khdoer Ibrahim		e-mail	halakeely@uowasit.edu.iq
Module Leader's Acad. Title	Lecture		Module Leader's Qualification	Ph. D
Module Tutor			e-mail	
Peer Reviewer Name			e-mail	
Scientific Committee Approval Date	1/3/2026		Version Number	1.0

Relation with other Modules			
Prerequisite module		Semester	

Module Aims, Learning Outcomes and Indicative Contents

Module Aims	The study of probability distributions aims to enable students to understand and analyze random data, describe its distribution pattern, and compare its actual distribution with known theoretical distributions. It also covers calculating the probability of different outcomes, understanding and classifying random variables, distinguishing between discrete and continuous variables, and learning how to represent them, find expected values, and calculate the variance that helps predict variable behavior. Furthermore, it teaches students to apply known distributions (such as Bernoulli, Poisson, and the normal distribution) to predict phenomena and make scientifically sound decisions. In short, the course aims to equip students with the mathematical tools necessary to transform random data into understandable models for prediction and decision-making.
Module Learning Outcomes	Identify discrete and continuous random variables and probability density and mass functions (PDF/PMF), analyze data, and determine the type of distribution they follow. Understand the mathematical properties of different probability distributions, such as the arithmetic mean, variance, and standard deviation. • Distinguish between binomial, Poisson, and geometric distributions (for discrete) and normal and exponential distributions (for continuous). Calculate the probabilities of specific events using appropriate probability models. Model real-world phenomena using suitable probability distributions for prediction. • Use distributions in statistical inference, such as parameter estimation and hypothesis testing. • Understand the applications of distributions in diverse fields (genetics, data analysis, risk management).
Indicative Contents	Probability distributions are concerned with collecting and summarizing theories, finding conclusions, and applying them in practical reality. Understanding the applications of distributions in various fields (genetics, data analysis, risk management).

Learning and Teaching Strategies

Strategies	Delivering lectures in person and using illustrative aids in a detailed manner on the board and using other informational aids on the electronic display device and real-life examples that can be used, while asking students to prepare research papers on this topic.
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Student Workload (SWL)			
Structured SWL (h/sem)	78	Structured SWL (h/w)	5
Unstructured SWL (h/sem)	122	Unstructured SWL (h/w)	
Total SWL (h/sem)	200		

Module Evaluation					
As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	5% (5)	2 and 5	LO #1 and LO #2 and LO #3
	Home Works (online+onsite)	2	5% (16 online+4 onsite)	6 and 10	LO #4 and LO #5 and LO #6 and LO #7
	Report	1	10% (10)	10 and 15	LO #8 and LO #9
Summative assessment	Midterm Exam	2hr	20% (20)	7 and 12	LO #10 and LO #11
	Final Exam	3hr	60% (60)	16	
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
Week	Material Covered
Week 1	Definition of random variables - Cumulative distribution function
Week 2	Probability mass function - Probability density function
Week 3	Expected - variance

Week 4	Moment - Moment Generating function
Week 5	Laws of large numbers
Week 6	Central limited theory
Week 7	Random path
Week 8	First exam
Week 9	Discrete Distributions – Bernoulli Distributions
Week 10	Binomial Distributions
Week 11	Poisson Distributions
Week 12	Continuous Distributions – Normal Distribution
Week 13	Exponential Distribution
Week 14	Exercises and Solutions
Week 15	Second exam
Week 16	Preparation Week Before the Final Exam

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts	4- Munaf , Entsar, Omar (2018) "Introduction Probability Theory" dhad Press . 5- Epps, T.W;(2013) " Probability and Statistical Theory for Applied Researchers ";university of Virginia ,world scientific Co, USA. 6- Mood, Alexander M, Graybill, Franklin A(1974)," Introduction to The Theory Statistical ",McGraw-Hill Inc3rd ed,USA.	Yes
Recommended Texts		Yes
Websites		

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

Description
The study of probability distributions aims to enable students to understand and analyze random data, describe its distribution pattern, and compare its actual distribution with known theoretical distributions. It also covers calculating the probability of different outcomes, understanding and classifying random variables, distinguishing between discrete and continuous variables, and learning how to represent them, find expected values, and calculate the variance that helps predict variable behavior. Furthermore, it teaches students to apply known distributions (such as Bernoulli, Poisson, and the normal distribution) to predict phenomena and make scientifically sound decisions.

MODULE DESCRIPTION FORM

Module Information					
Module Title	Differential Equations			Module Delivery	
Module Type	B			☒ Theory	
Module Code	STAT2402				
ECTS Credits	7				
SWL (hr/sem)	175				
Module Level		2	Semester of Delivery		2
Administering Department		Type Dept. Code	College	Administration and Economics	
Module Leader	Jalil Talab Abdullah		e-mail	jabd@uowasit.edu.iq	
Module Leader's Acad. Title		Asst. Prof.	Module Leader's Qualification		Msc
Module Tutor			e-mail		
Peer Reviewer Name			e-mail		
Scientific Committee Approval Date		20/2/2026	Version Number	1.0	

Relation with other Modules				
Prerequisite module	None		Semester	
Co-requisites module	None		Semester	

Module Aims, Learning Outcomes and Indicative Contents

Module Objectives	Based on the complete curriculum of the study, the student will be able to understand everything related to the vocabulary of differential Equations from various definitions and examples.
Module Learning Outcomes	The student is widely acquainted with the details of differential Equations and its role in various and comprehensive mathematical methods.
Indicative Contents	Developing students' abilities to share ideas

Learning and Teaching Strategies

Strategies	Giving physical lectures and using illustrative means in the manner of detailed explanation on the board and using innovative introductory means of mathematical problems that can be used in future studies by preparing research papers in pure and applied mathematics.
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Student Workload (SWL)

Structured SWL (h/sem)	63	Structured SWL (h/w)	4
Unstructured SWL (h/sem)	112	Unstructured SWL (h/w)	
Total SWL (h/sem)	175		

Module Evaluation

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	10	10% (10)	5 and 10	LO #1, #2 and #10, #11
	Assignments	10	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Presentation	10	10% (10)	Continuous	All
	Report	10	10% (10)	13	LO #5, #8 and #10
	Midterm Exam	10	10% (10)	7	LO #1 - #7

Summative assessment	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

	Material Covered
Week 1	The concept of a differential equation, the order and degree of a differential equation
Week 2	Finding the differential equation by eliminating constants, general solution and special solution of first-degree differential equations
Week 3	Separating variables, solving homogeneous differential equations
Week 4	Solving non-homogeneous differential equations, solving Exact differential equations
Week 5	Solving the non-exact differential equation and the integrative factor
Week 6	Solving the linear differential equation
Week 7	Bernoulli equation
Week 8	Orthogonal paths(Trajectories)
Week 9	homogeneous and nonhomogeneous equation
Week 10	Finding the general solution using the discriminant equation
Week 11	Finding the special solution to the non-homogeneous differential equation
Week 12	Finding the solution using undefined parameters
Week 13	Finding solutions to differential equations using power series
Week 14	Applications of differential equations in the fields of management and economics
Week 15	Final exam

Delivery Plan (Weekly Lab. Syllabus)

	Material Covered
Week 1	
Week 2	
Week 3	
Week 4	
Week 5	
Week 6	
Week 7	

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts	Differential Equations / Dr. Ramadan Muhammad Juhayma, Prof. Hussein Muhammad Ghaliou 2003 /	Limited
Recommended Texts	Differential Equations (Series of Solved Problems)	
Websites		

Grading Scheme			
Group	Grade	Marks %	Definition
Success Group (50 - 100)	A - Excellent	90 - 100	Outstanding Performance
	B - Very Good	80 - 89	Above average with some errors
	C - Good	70 - 79	Sound work with notable errors
	D - Satisfactory	60 - 69	Fair but with major shortcomings
	E - Sufficient	50 - 59	Work meets minimum criteria
Fail Group (0 - 49)	FX – Fail	(45-49)	More work required but credit awarded
	F – Fail	(0-44)	Considerable amount of work required

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

Description
Based on the complete curriculum of the study, the student will be able to understand everything related to the vocabulary of differential Equatins from various definitions and examples.

MODULE DESCRIPTION FORM

Module Information			
Module Title	Language Programing "R"		Module Delivery
Module Type	Basic		☒ Theory ☒ Lab
Module Code	STAT2403		
ECTS Credits	4		
SWL (hr/sem)	100		
Module Level	2	Semester of Delivery	2
Administering Department	Statistic	College	Administration & Economic
Module Leader	Emaeel Ali Hamad	e-mail	EsmaeelAli.Alaselmawi@uowasit.edu.iq
Module Leader's Acad. Title	Asst. Lecture.	Module Leader's Qualification	M.sc
Module Tutor		e-mail	
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date	2026/02/20	Version Number	1.0

Relation with other Modules			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents

Module Objectives	The R programming language course aims to enable students to understand the fundamentals of programming, handle, organize, and statistically analyze data, extract and present results in clear images and graphs, and build models that aid in prediction and support decision-making, thereby enhancing their skills in scientific research and data-driven problem-solving.
Module Learning Outcomes	By the end of the R programming course, the student will be able to understand the fundamentals of the language and use the development environment, handle different data types, write and execute commands and functions efficiently, import, organize, and statistically analyze data, create graphs, document results, and prepare simplified analytical reports.
Indicative Contents	Developing students' abilities to share ideas

Learning and Teaching Strategies

Strategies	The teaching and learning strategy in the R programming course relies on interactive explanations supported by direct, practical examples, linking theoretical concepts to step-by-step practical application.
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Student Workload (SWL)

Structured SWL (h/sem)	63	Structured SWL (h/w)	4
Unstructured SWL (h/sem)	37	Unstructured SWL (h/w)	0
Total SWL (h/sem)	100		

Module Evaluation

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	10	10% (10)	5 and 10	LO #1, #2 and #10, #11
	Assignments	10	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Presentation	10	10% (10)	Continuous	All
	Report	10	10% (10)	13	LO #5, #8 and #10
Summative assessment	Midterm Exam	2hr	10% (10)	7	LO #1 - #7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Principles of R Language
Week 2	Operators Logical
Week 3	Vectors
Week 4	Filtering
Week 5	Matrices
Week 6	Importing and Exporting Data
Week 7	Conditional Statements, Loops and Functions
Week 8	Classes
Week 9	Graphs and Charts
Week 10	Probability Theory
Week 11	Probabilities Conditional
Week 12	Distribution Binomial
Week 13	Normality Tests and Homogeneity of Variances Tests
Week 14	Pearson Coefficient Correlation
Week 15	Final exam

Delivery Plan (Weekly Lab. Syllabus)	
	Material Covered
Week 1	Operators Logical
Week 2	Vectors
Week 3	Filtering
Week 4	Matrices
Week 5	Importing and Exporting Data
Week 6	Conditional Statements, Loops and Functions
Week 7	Classes

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts	Statistical Programming Language (Mohammad Bisher Zeina)	Limited
Recommended Texts		
Websites		

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

Description
The R programming language course aims to enable students to understand the fundamentals of programming, handle, organize, and statistically analyze data, extract and present results in clear images and graphs, and build models that aid in prediction and support decision-making, thereby enhancing their skills in scientific research and data-driven problem-solving.

MODULE DESCRIPTION FORM

Module Information					
Module Title	Differentiation			Module Delivery	
Module Type	Basic			☒ Theory	
Module Code	STAT2404				
ECTS Credits	5				
SWL (hr/sem)	125				
Module Level		2		Semester of Delivery	
Administering Department		Statistic		College	Administration & Economic
Module Leader	Rusul Yas Khudary Majid			e-mail	ryas@uowasit.edu.iq
Module Leader's Acad. Title		Asst. Lecture		Module Leader's Qualification	
				M.sc	
Module Tutor				e-mail	
Peer Reviewer Name				e-mail	
Scientific Committee Approval Date		6/3/2026		Version Number	1.0

Relation with other Modules			
Prerequisite module		Semester	
Co-requisites module		Semester	

Module Aims, Learning Outcomes and Indicative Contents
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Module Objectives أهداف المادة الدراسية	The aim of the subject of economic statistics is to use statistical methods and means in studying economic phenomena and activities and the relationships between these phenomena in order to benefit from them in determining the trends of variation in economic variables and controlling the value of the phenomenon in future time periods and for the purposes of economic planning.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	• To introduce students to the fundamental concepts of statistics and their applications in economic analysis. • To connect statistical analysis with economic decision-making. • To evaluate economic policies using quantitative analysis tools. • To develop analytical and critical thinking skills in interpreting economic data. • To enhance scientific research skills in the economic field using statistical methods.
Indicative Contents المحتويات الإرشادية	Developing students' abilities to share ideas

Learning and Teaching Strategies	
Strategies	Delivering in-person lectures, using illustrative means in the form of detailed explanation on the blackboard, using other introductory means on the electronic display device, and realistic examples that can be used, along with setting daily exercises for students and their classroom participation.

Student Workload (SWL)			
Structured SWL (h/sem)	48	Structured SWL (h/w)	3
Unstructured SWL (h/sem)	77	Unstructured SWL (h/w)	
Total SWL (h/sem)	125		

Module Evaluation				
As	Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome

Formative assessment	Quizzes	10	10% (10)	5 and 10	LO #1, #2 and #10, #11
	Assignments	2	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Presentation	1	10% (10)	Continuou s	All
	Report	1	10% (10)	13	LO #5, #8 and #10
Summative assessment	Midterm Exam	2hr	10% (10)	7	LO #1 - #7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
Week	Material Covered
Week 1	The concept of economic statistics
Week 2	Single record and mid-length record
Week 3	The aggregate index and the weighted index
Week 4	The concept and nature of business statistics
Week 5	Internal trade statistics
Week 6	Foreign trade statistics
Week 7	The concept of national income, its measures, and pricing policies
Week 8	First exam
Week 9	National income and domestic income
Week 10	Introduction to Agricultural Statistics

Delivery Plan (Weekly Lab. Syllabus)		
Week	Material Covered	
Week 1		
Week 2		
Week 3		
Week 4		
Week 5		
Week 6		
Week 7		
Week 11	Types of agricultural statistics	
Week 12	Enumeration methods	
Week 13	Statistical measures used in agricultural statistics	
Week 14	Animal statistics	
Week 15	Second exam	

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts	"Economic Statistics" by Dr. Abdul Hussein Zaini, Baghdad 1990, Part 1 "Economic Statistics" by Dr. Abdul Hussein Zaini, Baghdad 1990, Part 2	Limited
Recommended Texts		

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

Description
The aim of the subject of economic statistics is to use statistical methods and means in studying economic phenomena and activities and the relationships between these phenomena in order to benefit from them in determining the trends of variation in economic variables and controlling the value of the phenomenon in future time periods and for the purposes of economic planning.

MODULE DESCRIPTION FORM

Module Information				
Module Title	Big Data Analytics			Module Delivery
Module Type	Basic			☒ Theory ☒ Lab
Module Code	STAT2405			
ECTS Credits	4			
SWL (hr/sem)	100			
Module Level	2		Semester of Delivery	2
Administering Department	Statistics		College	Administration and Economics
Module Leader	Zainab Kadhum Mezher		e-mail	zmezher@uowasit.edu.iq
Module Leader's Acad. Title	Lecture		Module Leader's Qualification	Ph.D.
Module Tutor			e-mail	
Peer Reviewer Name			e-mail	
Scientific Committee Approval Date	1/9/2025		Version Number	1.0

Relation with other Modules			
Prerequisite module	none		Semester

Module Aims, Learning Outcomes and Indicative Contents	
Module Aims	The course aims to prepare the student in the basics of Big Data and the possibility of applying them in practical life and the extent of benefit between theory and application.

Module Learning Outcomes	Explaining the material theoretically and presenting it to the students, while solving practical exercises on the board with the students' participation and encouraging them to solve them manually, in order to enhance their confidence and highlight their scientific capabilities in understanding the academic material.
Indicative Contents	How to choose a simple random sample, estimating symbols and terms, estimating the mean and total of the population Estimating the variance of the population mean and total and confidence limits for the population mean and total, estimating the proportion, testing the sample size to estimate the mean What is stratified sampling? Sample weights in stratified sampling. Distribution of observations on the stratum. Definition of the stratum. Estimating the mean and total of the population, estimating the variance of the arithmetic mean and total of the population, choosing the sample size to estimate the mean and total, estimating the proportion How to choose a systematic sample, estimating the mean and total of the population Estimating the variance of the mean and total of the population, estimating the size of a repeated systematic random sample Estimating the ratio R for a simple random sample, estimating the mean and the total using the ratio, choosing the sample size (to estimate the ratio, to estimate the mean and the total using R) Estimating the ratio in a stratified sample First month exam Estimating the mean and total using proportions in a stratified sample, estimating differences in a simple and stratified sample, estimating regression in a simple and stratified sample Choosing a sample size to estimate the mean and total, cluster random sampling in a stratified population, estimating the ratio, Choosing a sample size to estimate the ratio estimate the mean and total Discuss and solve exercises Simple random sampling, estimating the ratio R Diction Discuss and solve exercises Examples of theories and their practical application Diction Discuss and solve exercises

	Double sampling and stratification, regression ratio in double sampling Optimal distribution in double sampling Optimal distribution Discuss and solve exercises Various examples of theories and their practical application Various examples Discuss and solve exercises Second month exam
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Learning and Teaching Strategies

Strategies	27. Interactive Teaching: Use interactive lectures to introduce and clarify key concepts to students. Encourage students to actively participate through questioning and group discussions. 28. Project-Based Learning: Assign students practical projects to analyze real data using the statistical methods they have learned. Provide ongoing guidance and feedback during the implementation of projects to enhance learning 29. Practical Training: Conduct practical experiments in laboratories to apply theoretical concepts using statistical tools and software such as SPSS or Excel. Organize practical sessions to introduce students to how software is used in data analysis 30. Problem Solving: Use exercises and case studies to solve real problems using statistical methods. Promote critical thinking by analyzing data results and discussing different solutions. 31. Self-Learning: Provide additional learning resources such as educational videos, guided readings, and software user guides. Encourage students to self-study and explore topics in depth using online resources. 32. Continuous Assessment: Conduct short tests and periodic assessments to monitor students' progress and understanding of concepts. Provide useful feedback to identify areas where students need improvement. 33. Collaborative Learning: Organize group work for data analysis tasks and research projects to promote collaboration among students. Encourage working in small groups to exchange ideas and solve problems collectively. 34. Seminars and Workshops: Organize seminars and workshops to expand knowledge on advanced statistical topics and practical applications
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Student Workload (SWL)

Structured SWL (h/sem)	48	Structured SWL (h/w)	3
Unstructured SWL (h/sem)	52	Unstructured SWL (h/w)	0
Total SWL (h/sem)	100		

Module Evaluation					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	5% (5)	2 and 5	LO #1 and LO #2 and LO #3
	Home Works (online+onsite)	2	5% (16 online+4 onsite)	6 and 10	LO #4 and LO #5 and LO #6 and LO #7
	Report	1	10% (10)	10 and 15	LO #8 and LO #9
Summative assessment	Midterm Exam	2hr	20% (20)	7 and 12	LO #10 and LO #11
	Final Exam	3hr	60% (60)	16	
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Introduction to Big Data: Concept, Importance, 5vs, and the Difference Between Traditional and Big Data
Week 2	Sources of big data: government data, censuses, the internet
Week 3	Data types and structure
Week 4	Designing large databases in Excel
Week 5	Data entry and import, file merging, database organization
Week 6	Data cleaning, missing values, and anomalous values
Week 7	Data processing and transformation
Week 8	First month exam
Week 9	Statistical characterization of large datasets, frequency tables

Week 10	First month exam
Week 11	Graphing of large datasets: bar charts, line charts, pie charts
Week 12	Examples of theories and their practical application to large datasets
Week 13	Relationship analysis (correlation coefficient, correlation matrix)
Week 14	Simple regression and prediction •Data segmentation (age, geographic, economic)
Week 15	Second month exam

Delivery Plan (Weekly Lab. Syllabus)	
Week	Material Covered
Week 1	Opening a new worksheet in Excel and defining variables
Week 2	Creating frequency tables and other charts in Excel
Week 3	How to input large data sets into a computer
Week 4	How to input and import data, merge files, and organize databases on a computer
Week 5	Applying large database design principles in Excel
Week 6	Practical exam for student assessment
Week 7	Review of practical lab work

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts		Yes
Recommended Texts		Yes

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

Description
The course aims to prepare the student in the basics of Big Data and the possibility of applying them in practical life and the extent of benefit between theory and application.

MODULE DESCRIPTION FORM

Module Information					
Module Title	English language			Module Delivery	
Module Type	Suport			☒ Theory	
Module Code	UN246				
ECTS Credits					
SWL (hr/sem)	30				
Module Level		2		Semester of Delivery	
Administering Department		Statistics		College	College of Administration and Economics
Module Leader	Nagham Fadhil Hussain			e-mail	nahussain@uowasit.edu.iq
Module Leader's Acad. Title		Assistant Lecturer		Module Leader's Qualification	
				Ms. c	
Module Tutor				e-mail	
Peer Reviewer Name				e-mail	
Scientific Committee Approval Date		1/3/2026		Version Number	1.0

Relation with other Modules			
Prerequisite module	English for beginner, where the student studies the basic English grammar, the simple sentence, and some simple tenses such as the simple present tense. In addition to learning some methods of dialogue such as greetings and introduction, and learning some scientific terms related to their scientific specialization.	Semester	
Co-requisites module	.	Semester	

Module Aims, Learning Outcomes and Indicative Contents

Module Aims	5. Acquiring general language skills. 6. Acquiring terms associated with the statistics 7. The ability to read and write. 8. Developing communication skills through interactive activities such as listening and speaking in English.
Module Learning Outcomes	Reading and Writing Comprehension (Cognitive-Understanding & Applying) • Reading academic and economic statistics texts and understanding key ideas and supporting details. • Writing summaries, short reports and academic correspondence using correct English. 2. Oral and listening skills (Communication – Listening & Speaking • Understand lectures and conversations related to. • Participate in class discussions and make short presentations in English. 3. Language and technical skills (Application & Analysis): • Accurately use and technical statistics terminology in writing and conversation. • Analyze and interpret information statistics and data in English. 4. Critical and problem-solving skills (Analysis & Evaluation) • Evaluate texts and summarize statistics key points. • Apply language skills in solving academic problems associated with business administration. 5. Synthesis & Professional Skills: • Communicate effectively in an academic and professional environment using English. • Integrate linguistic knowledge with statistics concepts to deliver clear and accurate content
Indicative Contents	9. • Review basic grammar, including tenses, conjunctions, adjectives and adverbs, to develop the ability to construct correct sentences. 10. • Expanding academic vocabulary with a focus on terminology related to the statistics . 11. • Applying language skills in reading short texts and analyzing their basic ideas. 12. • Reading medium-length statistics academic and economic texts, understanding their content, and analyzing key ideas and supporting details. 13. • Apply language knowledge in statistics , professional and economic contexts. 14. • Preparing and presenting short presentations, taking into account the use of the correct technical language. 15. • Writing short academic reports and official correspondence in English. 16. • Analyze and explain data and information in English

Learning and Teaching Strategies	
Strategies	9. • Classroom Discussions: Motivate students to participate in group discussions on business administration texts and academic articles 10. (Collaborative Learning): Divide students into groups to work on common tasks, such as preparing presentations or writing group reports 11. • Question-Based Learning: Use analytical and critical questions to understand texts and encourage critical thinking. 12. • Role-playing: Simulate business administration professional or academic situations, such as meetings or economic discussions, to develop speaking and listening skills 13. Self-directed Learning: Encourage students to read additional resources and research topics related to the course to increase independent learning and critical thinking skills. 14. E-learning Use e-learning platforms to support the learning material, and make additional resources and materials available to students online. 15. Student Presentations: Students prepare presentations on course topics to develop their communication and presentation skills. These strategies work together integrally to enhance students' academic and practical skills, and to ensure that they interact effectively and sustainably with the subject

Student Workload (SWL)			
Structured SWL (h/sem)	33	Structured SWL (h/w)	2
Unstructured SWL (h/sem)	17	Unstructured SWL (h/w)	
Total SWL (h/sem)	50		

Module Evaluation					
As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	10	10% (10)	5 and 10	LO #1, #2 and #10, #11
	Assignments	10	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Presentation	10	10% (10)	Continuou s	All

	Report	10	10% (10)	13	LO #5, #8 and #10
Summative assessment	Midterm Exam	10	10% (10)	7	LO #1 - #7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
Week	Material Covered
Week 1	Unit 1: Getting to know . Tenses, Questions, using bilingual dictionary, part of speech, words with more one meaning
Week 2	Unit 2: The way we live Present simple, present continuous, using have got & has got describing countries
Week 3	Unit3: It all went wrong Past simple, past continuous, irregular verb, making connections, suffixes to make different words& negatives
Week 4	Unit4: Lets go shopping Quantity (much, many), some and any (someone, anyone, somewhere, anywhere...), learning buying things
Week 5	Exercises and solutions Unit 5: What do you want to do Review Verb patterns1, future intentions, hot verbs (have, go and come)
Week 6	Unit 6: Tell me what's like What's like, comparative & superlative adjectives, talking about cities, synonyms and antonyms
Week 7	Exercises and solutions Unit 7: Fame Present perfect and past simple ,for and since tense revision, past participle, adverbs and words pairs.
Week 8	EXAM
Week 9	Unit 8: Do's and don't Obligation (have(got), should& must) jobs, words that go together and compound nouns Write paragraph
Week 10	Unit 9: Going places Time and conditional clauses, hot verbs (take, get, do and make) Scientific terms
Week 11	Unit 10: Scared to death Verb patterns2 infinitive purpose, describing feelings and situations Unit 11: Thing that changed the world Passive, verbs and participles, verbs and nouns go together Write paragraphs
Week 12	Unit:12 Dreams and reality second conditional, might, phrasal verbs

Week 13	Unit13: Earning a living present perfect and present perfect continuous, word formation and adverbs Unit 14: Family ties past perfect, reported statement, hot verbs (bring, take, go and come)
Week 14	EXAM
Week 15	Preparations for final exam

Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts	New Headway Pulse for Pre-Intermediate , John and Liz Soars, Oxford	Yes
Recommended Texts		
Websites		

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Description
Based on the complete curriculum of the study, the student will be able to make sentences using the grammar that learnt and make conversations.