

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	مبادئ الاحصاء		Module Delivery
Module Type	Basic اساسية		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	BF1104		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	1	Semester of Delivery	
Administering Department	FBS	College	CAE
Module Leader	Hala K. Obead	e-mail	hala.obead@aliraiqia.edu.iq
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification	PhD
Module Tutor	Hala K.Obead	e-mail	hala.obead@aliraiqia.edu.iq
Peer Reviewer Name	م.م علي هيثم صفر	e-mail	ali.h.sufer@aliraiqia.edu.iq
Scientific Committee Approval Date	2025\10\1	Version Number	1.0

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

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

<p>Module Aims أهداف المادة الدراسية</p>	<p>1- The student's knowledge of statistical concepts, the quality of data, and methods of collecting, organizing and presenting it. 2-The student acquires the skill of using appropriate statistical laws and tools in descriptive statistics. 3- The student learns about the importance and role of statistics in the advancement of human sciences</p>
<p>Module Learning Outcomes مخرجات التعلم للمادة الدراسية</p>	<p>1-Preparing a student knowledgeable in using statistical methods according to the type of data. 2- Understanding and studying measures of central tendency and dispersion and studying their properties. 3-Definition of the concept of correlation, its types, and simple linear regression. 4- Study and understand standard numbers and their types. 5-Knowledge and study of time series and forecasting 6-Making the appropriate decision based on the results of the statistical analysis</p>
<p>Indicative Contents المحتويات الإرشادية</p>	<p>Identifying the problem and the possibility of collecting information and data about it, in addition to the possibility of actually carrying out the data collection, then tabulating and analyzing this data according to specific statistical methods, extracting results, and making decisions in light of that, as this use constitutes an important role in various fields, as well as the possibility of future prediction based on previous information</p>

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

<p>Strategies</p>	<p>1- Providing concrete examples to illustrate some statistical concepts, types of data, and their presentation methods. 2-Focusing on the practical aspect of statistics and developing students' skills in using statistical techniques on real datasets. 3-Encouraging students to ask questions and urging them to solve exercises regularly. 4-Providing clear step-by-step explanations and assessing students' understanding using the feedback method. 5- Group work where students work in small groups to solve a problem, determine the appropriate method to solve it, draw conclusions, and make decisions based on that.</p>
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Student Workload (SWL) الحمل الدراسي للطالب موزع على (15) اسبوع			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	63	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعياً	4.2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	87	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعياً	5.8
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	150		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	6, 13	LO #1-5 , LO #6-12
	Assignments	4	20% (10)	3, 5,10,14	LO # 1-2, LO # 3- 4, LO #5-9, LO #10-13
	Projects / Lab.	N/A			
	Report	1	10% (10)	15	LO # 1-14
Summative assessment	Midterm Exam	2 hr	10% (10)	8	LO # 1-7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Definition of statistics, its importance, and fields of application, in addition to defining types of statistical populations, methods of data collection, and their sources.
Week 2	Types of random samples, non-random samples, and common errors in data collection
Week 3	Tabulating data and presenting it in a frequency distribution table in the case of a discrete variable, and understanding cumulative ascending and descending frequencies and relative frequency.
Week 4	Tabulating data and presenting it in a frequency distribution table in the case of a continuous variable, and understanding cumulative ascending and descending

	frequencies and relative frequency.
Week 5	The graphical representation of data includes (bar charts, histograms, pie charts, polygons, curves, and line graphs).
Week 6	Measures of central tendency: arithmetic mean, weighted arithmetic mean, and mode, for classified and unclassified data
Week 7	The quadratic mean, median, and mode for classified and unclassified data
Week 8	Midterm Exam
Week 9	Absolute measures of dispersion: range, variance, and standard deviation
Week 10	Relative measures of dispersion: coefficient of variation and standard deviation
Week 11	Simple, partial, and multiple linear correlation
Week 12	Simple linear regression
Week 13	The Standard numbers (Laspeyres, Paasche, and Fisher)
Week 14	Time series (general trend)
Week 15	Preparatory week before the final Exam
Week 16	

Delivery Plan (Weekly Tutorial)

المنهاج الاسبوعي الاضافي

Material Covered

Each week, a question sheet related to the material presented in the theoretical lecture will be solved and debated.

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	كتاب الدكتور: محمود حسن المشهداني مبادئ الاحصاء	Yes
Recommended Texts	الدكتور احمد سميع طبيع /مبادئ الاحصاء 2008م-1429هـ الطبعة الاولى	No
Websites	https://youtube.com/@halakadhun9506?si=Dzezs_wAZzRjbo7_	

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

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