

MODULE DESCRIPTION FORM

Module Information			
Module Title	Principles Statistics		Module Delivery
Module Type	C		☒ Theory ☐ Lecture ☐ Lab ☐ Tutorial ☒ Practical ☐ Seminar
Module Code	MMOG1204		
ECTS Credits	4		
SWL (hr/sem)	100		
Module Level	1	Semester of Delivery	2
Administering Department	Oil & Gas Management & Marketing	College	Shatt Al , Arab University
Module Leader	Elaf Najm al-deen Abdullah	e-mail	pgs.elaf.najm@uobasrah.edu.iq
Module Leader's Acad. Title	Assistant Lecturer	Module Leader's Qualification	Masters Degree
Module Tutor		e-mail	
Peer Reviewer Name		e-mail	E-mail
Scientific Committee Approval Date	1 -9-2025	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-To identify the basic concepts of statistics such as sample, population, variables, and data. 2-To learn different methods of data collection, including questionnaires, experiments, and observations 3-To acquire the skills necessary to apply statistical methods to analyze data and interpret results. 4-To understand basic probability distributions such as the normal distribution and Poisson distribution. 5-To learn how to conduct statistical inference, including hypothesis testing, confidence intervals, and regression. 6-To use statistics in various fields such as economics, medicine, social sciences, and others. 7-To enhance critical thinking skills through data analysis and evaluation of statistical studies. 8-To become familiar with statistical software such as SPSS or R for data analysis .
Module Learning Outcomes	1. Recognize fundamental statistical concepts including data types, variables, and samples. 2. Collect and analyze data effectively using various methods. 3. Apply appropriate statistical techniques including hypothesis testing and confidence intervals. 4. Interpret statistical results accurately and prepare clear reports. 5. Evaluate statistical studies critically. 6. Use statistical software effectively for data analysis. 7. Apply statistical methods in economics, social sciences, and medicine. 8. Present statistical findings effectively to academic and professional audiences.
Indicative Contents	The indicative contents provide a framework for planning and guiding the educational process and include: • Educational objectives • Key concepts • Methodologies • Learning materials

	- Teaching activities - Assessment methods Academic guidance Total hours = 147 = Self-study hours - (Exam hours) = 150 - 3 = 147 hours (Timetable hours x 15 weeks.
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	- Lectures - Classroom discussions - Solving exercises in class - Discussing mathematical problems in class Assessment Methods: - Daily participation through class engagement - Daily quizzes

Student Workload (SWL) (15 Weeks)			
Structured SWL (h/sem)	63	Structured SWL (h/w)	7
Unstructured SWL (h/sem)	37	Unstructured SWL (h/w)	6
Total SWL (h/sem)	100		

Delivery Plan (Weekly Syllabus)	
Week	Material Covered
Week 1	Introduction to Statistics (concept, types of variables, population, sample, statistical symbols, simple examples)
Week 2	Tabular presentation, graphical representation, and data classification with examples
Week 3	Cumulative distributions and frequency distribution table
Week 4	Measures of central tendency (Arithmetic mean, Weighted mean, Geometric mean, Harmonic mean)
Week 5	Median
Week 6	Measures of dispersion and variation
Week 7	Midterm Exam
Week 8	Mean deviation (with examples)
Week 9	Correlation (study of relationship between two variables)
Week 10	Correlation coefficient
Week 11	Test of significance of correlation
Week 12	Regression
Week 13	Multiple linear regression
Week 14	Adjusted coefficient of determination
Week 15	Test of significance of estimated parameters
Week 16	Final Exam

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

Week 3	-
Week 4	-
Week 5	-
Week 6	-
Week 7	-

Module Evaluation

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

Learning and Teaching Resources

	Text	Available in the Library?
Required Texts		Yes
Recommended Texts	Mahfouz Fouad Al-Kanani – Principles of Statistics	
Websites		

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

رئيس القسم

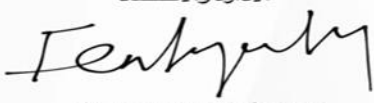
 م.د. رافد عيد الجليل حسن

مدرس المادة


 م.م. ايلاف نجم

**Director of the Quality Assurance and Performance Department of
the University: Wafa Saeed Hassan**

مسؤولة وحدة الجودة كلية
الإدارة والاقتصاد


 م.م. وفاء سعيد حسن