

Ministry of Higher Education and Scientific Research - Iraq

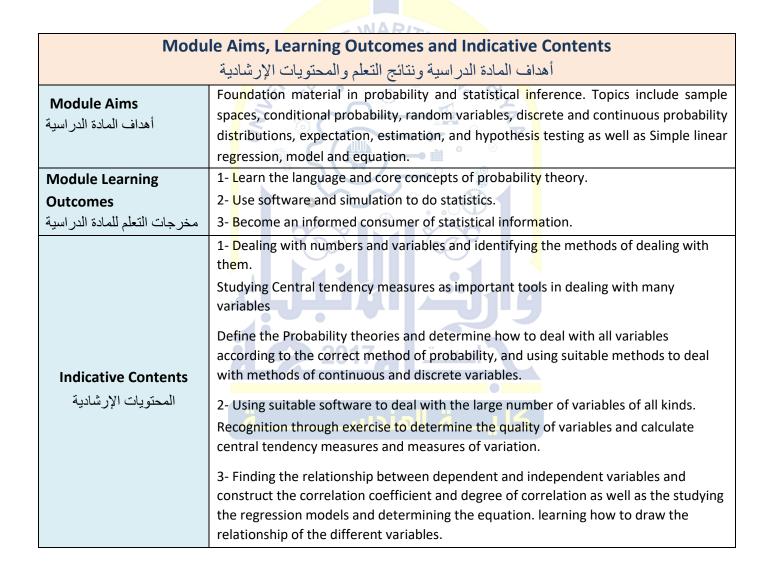
University of Warith Al_Anbiyaa....
College of Engineering
Oil and Gas Department



MODULE DESCRIPTOR FORM نموذج وصف المادة الدراسية

Module Information						
معلومات المادة الدراسية						
Module Title	Statistical and Optimization			Modu	le Delivery	
Module Type				☑ Theory		
Module Code		☐ Lecture				
ECTS Credits		□ Lab				
		(00)		☑ Tutorial		
SWL (hr/sem)		125			☐ Practical	
			☐ Seminar			
Module Level		UGII 2017	Semester of Delivery		у	1
Administering Department		OGE	College Engineering			
Module Leader	ule Leader Dr.ali khayoon		e-mail	ali.kh@uowa.edu.iq		
Module Leader's Acad. Title		Lecturer	Module Leader's Qualification		alification	Ph.D.
Module Tutor	1		e-mail	ali.kh@uowa.edu.iq		
Peer Reviewer Name		Asst. LectYahya hadi	e-mail yahya.hadi@uowa.edu		iq	
Scientific Committee Approval Date		01/06/2023	Version Number 1.0			

Relation with other Modules				
العلاقة مع المواد الدراسية الأخرى				
Prerequisite module	CALC123	Semester	2	
Co-requisites module	None	Semester		

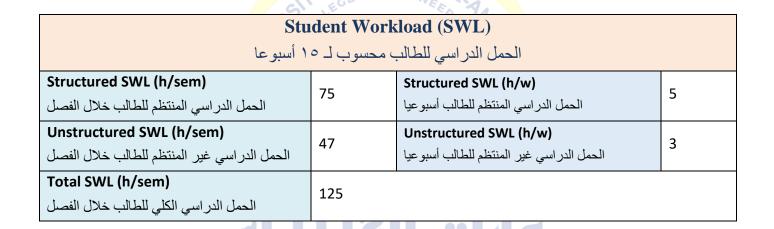


Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies

As a basic strategy .. students try through this course to identify the correct statistical methods in dealing with the numbers and the multi variables that they might deal with regarding of oil and gas engineering applications, in addition to studying the systems, concepts and theories of probability through which it can infer accurate facts and information which will be highly beneficial in their field and its practical applications through the use of a set of specialized software.



Module Evaluation

تقييم المادة الدر اسية

ř		Time/Nu mber	Weight (Marks)	Week Due	Relevant Learning Outcome
	Quizzes	1	10% (10)	1-4	1
Formative	Assignments	1	10% (10)	5-8	1,2
assessment	Projects / Lab.	1	10% (10)	Continuous	All
	Report	1	10% (10)	13	1,2,3
Summative	Midterm Exam	2 hr	10% (10)	8	1,2,3
assessment	Final Exam	2hr	50% (50)	16	All
Total assessment		100% (100 Marks)			



Delivery Plan (Weekly Syllabus)				
المنهاج الاسبوعي النظري				
	Material Covered			
Week 1	Introduction and Fundamental elements of statistics.			
Week 2	Types of data, Methods of describing data.			
Week 3	Measures of central tendency.			
Week 4	Measures of variation.			
Week 5	Probability and Discreet of random variable.			
Week 6	Probability and Continuous random distribution.			
Week 7	Normal Distribution.			
Week 8	Applications .			
Week 9	Testing of Hypothesis.			
Week 10	Traditional Methods. 2017 — — — — — — — — — — — — — — — — — — —			
Week 11	z Test for a Mean and Chi-square			
Week 12	Simple linear regression.			
Week 13	The coefficient of correlation.			
Week 14	Regression model.			
Week 15	Regression equation.			
Week 16	Preparatory week before the final Exam			

Learning and Teaching Resources

وصف المقرر الدراسى

جامعة وارث الأنبياء(ع) / كلية الهندسة

-	(6)			
مصادر التعلم والتدريس				
	Text	Available in the Library?		
Required Texts	Allan G. Bluman, 2007. Elementary Statistics: step by step approaches , Mc. Graw Hill, 7th edition.	Not sure		
Recommended Texts	-			
Websites	- 1			

Grading Scheme مخطط الدرجات						
Group	Grade	التقدير	Marks (%)	Definition		
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance		
	B - Very Good	ا جيد جدا 80 - 89 Above averago		Above average with some errors		
	C - Good	ختر ه	70 - 79	Sound work with notable errors		
	D - Satisfactory	متوسط	60 - 69	Fair bu <mark>t w</mark> ith major shortcomings		
	E - Sufficient	مقبول 👸	50 - 59	Work m <mark>e</mark> ets 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.

