

Module Information					
معلومات المادة الدراسية					
Module Title	Engineering Statistics		Module Delivery		
Module Type	Elective learning activity (E)		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar		
Module Code	UOMU023035				
ECTS Credits	4				
SWL (hr/sem)	120				
Module Level		UGII			Semester of Delivery
Administering Department		Engineering Building and Construction Technique	College	Al-Mustaqbal university	
Module Leader	Tamar Maitham Al-Asedi		e-mail	Tamar.Maitham.Abdulwahabb@uomus.edu.iq	
Module Leader's Acad. Title		Assistant Lecturer	Module Leader's Qualification		
Module Tutor	Name (if available)		e-mail	E-mail	
Peer Reviewer Name			e-mail		
Scientific Committee Approval Date			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	
Module Aims أهداف المادة الدراسية	This course description provides a brief summary of the most important characteristics of the course and the expected learning outcomes of students to demonstrate whether they have made the most of the available learning opportunities. It must be linked to the description of the program.

<p>Module Learning Outcomes</p> <p>مخرجات التعلم للمادة الدراسية</p>	<p>upon completion of this course the students will:</p> <ol style="list-style-type: none"> 1- distinguish types of studies and their limitations and strengths, Describe a data set including both categorical and quantitative variables to support or refute a statement. 2- Apply laws of probability to concrete problems. 3- Perform statistical inference in several circumstances and interpret the results in an applied context. 4- Use mathematical tools, including calculus and linear algebra. 5- study probability and mathematical statistics and in the description and development of statistical procedures. 6- Use a statistical software package for computations with data. 7- Use a computer for the purpose of simulation in probability and statistical inference. 8- Communicate concepts in probability and statistics using both technical and non-technical language.
<p>Indicative Contents</p> <p>المحتويات الإرشادية</p>	<p>Indicative content includes the following.</p> <p>Statistics-Types of Statistics [2hr]</p> <p>Data-Population-Sample-Variable[2hr]</p> <p>Frequency Distribution [2hr]</p> <p>Class boundaries-Class Width-Class Mark[2hr]</p> <p>Relative and Percentage Frequency[2hr]</p> <p>Graphical Presentation I[2hr]</p> <p>Graphical Presentation II[2hr]</p> <p>Statistical Notations I[2hr]</p> <p>Statistical Notations II[2hr]</p> <p>Measures of Central Tendency I[2hr]</p> <p>Measures of Central Tendency II[2hr]</p> <p>Measures of Variation I[2hr]</p> <p>Measures of Variation II[2hr]</p> <p>Measures of Skewed [2hr]</p> <p>Correlation[2hr]</p>

<p>Learning and Teaching Strategies</p> <p>استراتيجيات التعلم والتعليم</p>	
<p>Strategies</p>	<p>Assessment is based on</p> <ol style="list-style-type: none"> 1- Quizzes 2- Student feedback. 3- Seminars

Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	59	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	3
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	61	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	1
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	120		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5, 10	LO #1, 2, 10 and 11
	Assignments	2	10% (10)	2, 12	LO # 3, 4, 6 and 7
	Projects / Lab.				
	Report	1	10% (10)	13	LO # 5, 8 and 10
Summative assessment	Midterm Exam	2 hr	20% (10)	7	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	Statistics-Types of Statistics
Week 2	Data-Population-Sample-Variable
Week 3	Frequency Distribution
Week 4	Class boundaries-Class Width-Class Mark
Week 5	Relative and Percentage Frequency
Week 6	Graphical Presentation I
Week 7	Graphical Presentation II
Week 8	Statistical Notations I

Week 9	Statistical Notations II
Week 10	Measures of Central Tendency I
Week 11	Measures of Central Tendency II
Week 12	Measures of Variation I
Week 13	Measures of Variation II
Week 14	Measures of Skewed. Correlation
Week 15	Preparatory week before the final Exam

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts		Yes
Recommended Texts	1-Elementary Statistics, Author Allan G. Bluman, Printed by McGraw-Hill, 1997. المدخل الى الاحصاء- تأليف د.خاشع محمود الراوي- طباعة -2- جامعة الموصل	No
Websites		

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.