

<b>Module Information</b> معلومات المادة الدراسية			
<b>Module Title</b>	Engineering Statistics		<b>Module Delivery</b>
<b>Module Type</b>	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
<b>Module Code</b>	UOMU0203035		
<b>ECTS Credits</b>	4		
<b>SWL (hr/sem)</b>	120		
<b>Module Level</b>	UGII	<b>Semester of Delivery</b>	
<b>Administering Department</b>	Engineering Building and Construction Technique	<b>College</b>	Al-Mustaqbal university
<b>Module Leader</b>	Tamar Maitham Al-Asedi	<b>e-mail</b>	<a href="mailto:Tamar.Maitham.Abdulwahabb@uomus.edu.iq">Tamar.Maitham.Abdulwahabb@uomus.edu.iq</a>
<b>Module Leader's Acad. Title</b>	Assistant Lecturer	<b>Module Leader's Qualification</b>	
<b>Module Tutor</b>	Name (if available)	<b>e-mail</b>	E-mail
<b>Peer Reviewer Name</b>		<b>e-mail</b>	
<b>Scientific Committee Approval Date</b>		<b>Version Number</b>	1.0

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

<b>Module Aims, Learning Outcomes and Indicative Contents</b> أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
<b>Module Aims</b> 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.
<b>Module Learning Outcomes</b>	upon completion of this course the students will: 1- distinguish types of studies and their limitations and strengths,

مخرجات التعلم للمادة الدراسية	<p>Describe a data set including both categorical and quantitative variables to support or refute a statement.</p> <p>2- Apply laws of probability to concrete problems.</p> <p>3- Perform statistical inference in several circumstances and interpret the results in an applied context.</p> <p>4- Use mathematical tools, including calculus and linear algebra.</p> <p>5- study probability and mathematical statistics and in the description and development of statistical procedures.</p> <p>6- Use a statistical software package for computations with data.</p> <p>7- Use a computer for the purpose of simulation in probability and statistical inference.</p> <p>8- Communicate concepts in probability and statistics using both technical and non-technical language.</p>
<p><b>Indicative Contents</b> 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>

### Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

<p><b>Strategies</b></p>	<p>Assessment is based on</p> <p>1- <b>Quizzes</b></p> <p>2- Student feedback.</p> <p>3- Seminars</p>
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### Student Workload (SWL)

الحمل الدراسي للطالب

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

### Module Evaluation

#### تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
<b>Formative assessment</b>	<b>Quizzes</b>	2	10% (10)	5, 10	LO #1, 2, 10 and 11
	<b>Assignments</b>	2	10% (10)	2, 12	LO # 3, 4, 6 and 7
	<b>Projects / Lab.</b>				
	<b>Report</b>	1	10% (10)	13	LO # 5, 8 and 10
<b>Summative assessment</b>	<b>Midterm Exam</b>	2 hr	20% (10)	7	LO # 1-7
	<b>Final Exam</b>	3hr	50% (50)	16	All
<b>Total assessment</b>			100% (100 Marks)		

### Delivery Plan (Weekly Syllabus)

#### المنهاج الاسبوعي النظري

	Material Covered
<b>Week 1</b>	Statistics-Types of Statistics
<b>Week 2</b>	Data-Population-Sample-Variable
<b>Week 3</b>	Frequency Distribution
<b>Week 4</b>	Class boundaries-Class Width-Class Mark
<b>Week 5</b>	Relative and Percentage Frequency
<b>Week 6</b>	Graphical Presentation I
<b>Week 7</b>	Graphical Presentation II
<b>Week 8</b>	Statistical Notations I
<b>Week 9</b>	Statistical Notations II
<b>Week 10</b>	Measures of Central Tendency I

<b>Week 11</b>	Measures of Central Tendency II
<b>Week 12</b>	Measures of Variation I
<b>Week 13</b>	Measures of Variation II
<b>Week 14</b>	Measures of Skewed. Correlation
<b>Week 15</b>	<b>Preparatory week before the final Exam</b>

<b>Learning and Teaching Resources</b> مصادر التعلم والتدريس		
	Text	Available in the Library?
<b>Required Texts</b>		Yes
<b>Recommended Texts</b>	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
<b>Websites</b>		

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