MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Mathematics I**			**Module Delivery**	
Module Type	**Core**			☒ **Theory** ☒ **Lecture** ☐ **Lab** ☒ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**CE101**				
ECTS Credits	**6**				
SWL (hr/sem)	**150**				
Module Level		UGI	**Semester of Delivery**		1
Administering Department		Type Dept. Code	**College**	Type College Code	
Module Leader	Mohammed Th. Al-Neima Ahmad Ibrahim		**e-mail**	mohammedmth@uomosul.edu.iq	
Module Leader's Acad. Title		Lecture Assistant lecture	**Module Leader's Qualification**		Ph.D. M.SC.
Module Tutor			**e-mail**		
Peer Reviewer Name		Amina A Khaleel	**e-mail**	amina.alshumam@uomosul.edu.iq	
Scientific Committee Approval Date		1/06/2023	**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	1. Provide the fundamental base for elementary mathematics. 2. Use mathematical functions like trigonometric functions and application of derivatives to solve some Engineering problems.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. Basic 2D Curves drawing using shifting properties. 2. Apply mathematic techniques to find the limits. 3. Apply differential calculus and higher order to solve Engineering problems. 4. Find velocity, acceleration with application of derivatives. 5. Apply determinants properties and Crammer`s rule to solve Engineering problems. 6. An ability to identify, analyze, and solve complex engineering problems according to principles of engineering, science, and mathematics.
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. Chapter 1 Prerequisites for calculus, coordinates and Graphs in the plane,. Slope and Equations for lines, functions and their graphs.Shifts, Cirrcles and parabolas , A review of trigonometric functions. [15 hrs] Chapter 2 Limits and continuity, introduction to limit, The sandwich theorem and $\frac{\sin\theta}{\theta}$, Limits involving infinity, continuous functions [15 hrs] Chapter 3 Derivatives, slopes, Tangent lines and derivatives. Differentiations Rules, Derivatives of Trigonometric functions. The chain rule, implicit differentiation and fractional powers [15 hrs] Chapter 4 Applications of derivatives, Related rates of change. Maxima, minima, curve sketching with y' and y''. Graphing Rational functions, Asymptotes, Optimization [15 hrs] Chapter 5 Types of Matrices, operations sum, multiplication by scalar, multiplication between two matrices, Determinants, The adjoin of Matrix, inverse of Matrix, Solving systems of linear equation using Matrices. [15 hrs]

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	Type something like: The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through

	classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	78	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	5
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	72	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	5
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	3	24% (24)	5, 10,11	LO #1, 2, 3
	On line Assignments	4	4% (4)	2, 4,6,8	LO # 1-4
	Onsite Assignments	4	4% (4)	3,5,7,9	LO # 1-4
	Projects / Lab.				
	Report	1	3%(3)	13	LO # 1-6
	Seminars	1	5%(5)		LO # 1-6
Summative assessment	Midterm Exam	2 hr	10% (10)	8	LO # 1-3
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي النظري

	Material Covered
Week 1	Prerequisites for calculus, coordinates and Graphs in the plane,
Week 2	Slope and Equations for lines, functions and their graphs
Week 3	Shifts, Cirrcles and parabolas , A review of trigonometric functions.
Week 4	Limits and continuity, introduction to limit.

Week 5	The sandwich theorem and $\frac{\sin\theta}{\theta}$
Week 6	Limits involving infinity, continuous functions
Week 7	Derivatives, slopes, Tangent lines and derivatives
Week 8	Differentiations Rules, Derivatives of Trigonometric functions
Week 9	The chain rule, implicit differentiation and fractional powers
Week 10	Applications of derivatives, Related rates of change.
Week 11	Maxima, minima, curve sketching with y' and y''
Week 12	Graphing Rational functions, Asymptotes, Optimization
Week 13	Types of Matrices, operations sum, multiplication by scalar, multiplication between two matrices.
Week 14	Determinants, The adjoin of Matrix, inverse of Matrix
Week 15	Solving systems of linear equation using Matrices
Week 16	**Preparatory week before the final Exam**

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Thomas' Calculus by Finney and Thomas.	Yes
Recommended Texts	**Calculus by Ron Larson, Bruce Edwards.**	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.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Engineering Mechanics I**			**Module Delivery**	
Module Type	**Core**			☒ **Theory** ☐ **Lecture** ☐ **Lab** ☒ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**CE102**				
ECTS Credits	**6**				
SWL (hr/sem)	**150**				
Module Level		UGI	**Semester of Delivery**		1
Administering Department		Type Dept. Code	**College**	Type College Code	
Module Leader	Ashtar Saleh Ahmed Dr. Qutayba N. Al-Saffar		**e-mail**	aziztaher@uomosul.edu.iq dr.qutayba@uomosul.edu.iq	
Module Leader's Acad. Title		Assistant Professor	**Module Leader's Qualification**		MSc
Module Tutor	Ashtar Saleh Ahmed Assistant Professor		**e-mail**	E-mail: aziztaher@uomosul.edu.iq	
Peer Reviewer Name		*Dr. Suhaib Y Al-darzi*	**e-mail**	suhaib.qasim@uomosul.edu.iq	
Scientific Committee Approval Date		01/06/2023	**Version Number**		1.0

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

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	This course aims to introduce the student to the system of units, types of forces, and types of quantities. How to analyze and compose forces. Finding the resultant force, Being able to calculate moments about different points and how to calculate the couple and transfer forces from one place to another. The student also learns about the effect of forces on static bodies and how to calculate reactions. And learn about the methods of analyzing some structures, such as trusses and frames.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. Recognizing Newton's laws and the concept of force and the basic units used for it, and understanding how to analyze and compose forces. 2. Classification of the type of forces, are they concurrent or parallel or are they nonconcurrent forces, and how to find the resultant of each type of force. 3. Finding the moment of forces about any point and determine the couple, In addition to the transfer of forces from one point to another point. 4. Applying equilibrium equations to problems and finding reactions that make bodies in equilibrium. 5. Analysis of some engineering structures such as trusses and frames. 6. An ability to identify, analyze, and solve complex engineering problems according to principles of engineering, science, andmathematics. 7. An ability to identify, analyze, and solve complex engineering problems according to principles of engineering, science, andmathematics. 8. An ability to acquire and apply new knowledge and using appropriate learning strategies. 9. An ability to participate and work professionally and ethically in different projects to function on multi-disciplinary teams.
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. **Chapter 1** Introduction Fundamental concept, Newtons laws, units of measurement, the international system of units, Scalars and Vectors **[3 hrs]** **Chapter 2** Forces system and Resultant Forces, composition and resolution of forces, Parallelogram law, moment, Couples, Force analysis into force and couple, the resultant of any system of forces **[20hrs]** **Chapter 3** Equilibrium Free-Body Diagrams, Equations of Equilibrium, Two- and Three-Force Members, The equilibrium of bodies subjected to non-concurrent forces **[22hrs]** **Chapter 4** Truss and Frames Part A

	Introduction, Trusses, Assumptions of simple trusses analysis, Zero-Force Members, Analysis of trusses by joint method, Analysis of trusses by section method. **[18 hrs]** Part B Frames analysis. **[12 hrs]**

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	Type something like: The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	78	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	5
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	72	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	5
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	**Quizzes**	5	20% (20)	4, 12	LO # 2, 3, 4 ,5 and 6

assessment	**Assignments**	4	16% (16)	4, 12	LO # 2, 3 and 4
	Projects / Lab.				
	Report	1	4% (4)		LO # 2, 3 and 4-9
Summative assessment	**Midterm Exam**	2 hr	10% (10)	7	LO # 1-7
	Final Exam	2hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Introduction, Basic concepts, vector and scalar quantities, units and their transformations.
Week 2	The law of parallelograms, forces and their components, Resolution and Composition of the forces
Week 3	The moments of forces, Couples
Week 4	The Resultant
Week 5	Determine the resultant location
Week 6	The concept of equilibrium and free body diagrams of the bodies
Week 7	Equilibrium equations for the concurrent force systems located in one plane
Week 8	Equilibrium of bodies subjected to two or three forces located in one plane
Week 9	Equilibrium of bodies subjected to non-concurrent forces and located in one plane
Week 10	Equilibrium of bodies subjected to non-concurrent forces and located in one plane
Week 11	Analysis of Trusses, introduction, Analysis of Trusses by joint method
Week 12	Analysis of Trusses by joint method & Analysis of Trusses by section method
Week 13	Analysis of Trusses by section method + fram analysis
Week 14	Frames analysis
Week 15	Frames analysis

Week 16	**Preparatory week before the final Exam**

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	"Engineering Mechanics-statics", (1990), (Book language:Arabic)	Yes
Recommended Texts	Engineering Mechanics-statics",(2016), R.C. Hibbeler ,14th edition.	Yes
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.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**ENGINEERING DRAWING I**			**Module Delivery**	
Module Type	**C**			☐ **Theory** ☒ **Lecture** ☒ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	CE104				
ECTS Credits	**5**				
SWL (hr/sem)	**125**				
Module Level	UGI		**Semester of Delivery**	1	
Administering Department	Type Dept. Code		**College**	Type College Code	
Module Leader	Ibtesam hazem/sura abd-alrazaaq		**e-mail**	ibtesam_alzubady_b-s@uomosul.edu.iq	
Module Leader's Acad. Title	Lecturer		**Module Leader's Qualification**	MSc	
Module Tutor	Name (if available)		**e-mail**	E-mail	
Peer Reviewer Name	امينة احمد خليل		**e-mail**	amina.alshumam@uomosul.edu.iq	
Scientific Committee Approval Date	01/06/2023		**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	1. To know about different types of lines & use of different types of pencils in an Engineering Drawing 2. To know how to represents letters & numbers in drawing sheet. 3. To khow how to draw graphic geometry. 4. To know about different types of projection 5. To know projection of points ,straight lines, solids etc. 6. To know development of different types of surfaces.
Module Learning Outcomes	1- Identify and use of different grades of pencils and other drafting instruments which are used in engineering field . 2- Draw free hand sketches of various kinds of objects.

مخرجات التعلم للمادة الدراسية	3- Utilize various types of lines used in engineering drawing. 4- Read and apply different dimensioning methods on drawing of objects. 5- Use different types of scales and their utilization in reading and reproducing drawings of objects and maps. 6- Draw 2 - dimensional view of different objects viewed from different angles (orthographic views) . 7- Draw and interpret complete inner hidden details of an object which are otherwise not visible in normal view. 8- An ability to identify, analyze, and solve complex engineering problems according to principles of engineering, science, andmathematics. 9- An ability to acquire and apply new knowledge and using appropriate learning strategies. 10- An ability to participate and work professionally and ethically in different projects to function on multi-disciplinary teams.
Indicative Contents المحتويات الإرشادية	Indicative content includes the following: Introduction about tools drawings and types of lines[4], Basic graphic &types of scales[6], graphic geometry , drwaing polygons and ellipps ,reverse curve [12] , Orthographic Projection [18], Surface States[6] , Projection on Inclined Surfaces[8] , Tangent points [6].

Learning and Teaching Strategies
استراتيجيات التعلم والتعليم

Strategies	The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students.

Student Workload (SWL)
الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	63	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	62	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	4
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**	3	15% (15)	4, 13	LO #3, 4, 5,6 and 7
	H.W & C.W	12	24% (24)	1, 13	LO #3, 4, 5,6 and 7
	Projects / Lab.				
	Report	1	1%(1)		LO #3, 4, 5,6- 10
Summative assessment	**Midterm Exam**	2 hr	10% (10)	7	LO # 1-7
	Final Exam	3 hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي

	Material Covered
Week 1	Introduction to drawing instruments, materials, layout and sizes of drawing sheets and drawing boards.
Week 2	Different types of lines in Engineering drawing & Practice of vertical, horizontal and inclined lines.
Week 3	Basic Graphic
Week 4	Types of scales
Week 5	Graphic Geometry: how to draw to parallel , perpendicular & divide line.
Week 6	Geometrical figures such as triangles, rectangles, circles, ellipses and curves, hexagonal, pentagon with the help of drawing instruments
Week 7	Reverse Curve or Ogee Curve
Week 8	Theory of orthographic projections
Week 9	Types of projection
Week 10	Projection with parallel and perpendicular rays
Week 11	Three views of orthographic projection of different objects. (At least one sheet in 3rd angle)
Week 12	Surface States
Week 13	Projection of cylinders
Week 14	Projection on Inclined Surfaces
Week 15	Tangent points in projection
Week 16	Final Exam

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Teaching students to use tools in the studio
Week 2	Teaching students how to draw H.W. No. 1 and how to draw angles correctly

Week 3	Application to engineering operations by giving several homework questions
Week 4	Apply the drawing scale by giving a class work
Week 5	A practical application on drawing parallel and perpendicular lines and learning how to draw polygons,ellipse.
Week 6	
Week 7	Teach students to draw an reverse curves and give examples
Week 8	Practical application to various issues related to the theory of orthographic projection through class assignments and giving homework
Week 9	
Week 10	
Week 11	
Week 12	Solve examples of surface states
Week 13	Solve examples of projection of cylinders
Week 14	A practical application of projection on inclined surfaces and teaching the student how to find points of tangent in the projections
Week 15	

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	**Available in the Library?**
Required Texts	Engineering Drawing and Graphic Technology, By French & Vierk , Twelve edition	yes
Recommended Texts	Technical drawing with engineering	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

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-MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Geology**			**Module Delivery**	
Module Type	**Core**			☒ **Theory** ☒ **Lecture** ☒ **Lab** ☒ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**CE104**				
ECTS Credits	**6**				
SWL (hr/sem)	**150**				
Module Level		UGIV	**Semester of Delivery**		1
Administering Department		Type Dept. Code	**College**	Type College Code	
Module Leader	Dr. Mohammed N. Jaro		**e-mail**	m.jaro@uomosul.edu.iq	
Module Leader's Acad. Title		lecture	**Module Leader's Qualification**		
Module Tutor	Zeena Ahmed Kazzaz		**e-mail**	zeena.kazzaz@uomosul.edu.iq	
Peer Reviewer Name		امينة احمد خليل	**e-mail**	amina.alshumam@uomosul.edu.iq	
Scientific Committee Approval Date		01/06/2023	**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

The Module aims including the following:

1	Importance of engineering geology for civil engineer
2	Learning types of minerals and their engineering properties, in addition to clay minerals which have great importance in civil engineering
3	Understand basic relation in soil and rocks
4	Effect of geological structures on engineering facilities built above and under the earth surface.
5	Learning methods of drawing and reading geological, topographic and contour maps, and calculating the amounts of backfill and cut.

Module Learning Outcomes

مخرجات التعلم للمادة الدراسية

1	Learning types of minerals and their engineering properties, in addition to clay minerals which have great importance in civil engineering
2	Understand basic relation in soil and rocks
3	Effect of geological structures on engineering facilities built above and under the earth surface.
4	Learning methods of drawing and reading geological, topographic and contour maps, and calculating the amounts of backfill and cut.

10. An ability to identify, analyze, and solve complex engineering problems according to principles of engineering, science, andmathematics.
11. An ability to acquire and apply new knowledge and using appropriate learning strategies.
12. An ability to participate and work professionally and ethically in different projects to function on multi-disciplinary teams.

Indicative Contents

المحتويات الإرشادية

Indicative content includes the following.

1- Definition of engineering geology
2- The relationship between geology and civil engineering [4]
3- Definition of natural minerals and their engineering properties
Clay Mineralogy [4]
4- Introduction to rocks and their types in the Earth's crust
5- Definition of sedimentary, igneous and metamorphic rocks, their types and geological characteristics [4]
6- Weathering, erosion and soil formation [4]
7- Geological structures - folds, faults and joints in rocks and their impact on engineering structures [4]
8- Engineering properties of rocks - physical and mechanical [4]
9- Midterm examination [4]
10- Topographical and geological maps and the purpose of their study [4]
11- Soil engineering properties - physical, mechanical, and hydraulic properties of the soil [4]
12- Ground water - storage and movement of ground water, factors affecting groundwater movement and ground water qualityR [4]

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The main strategy that will be adopted in delivering this module is to: **1** Importance of engineering geology for civil engineer **2** Learning types of minerals and their engineering properties, in addition to clay minerals which have great importance in civil engineering **3** Understand basic relation in soil and rocks **4** Effect of geological structures on engineering facilities built above and under the earth surface. **5** Learning methods of drawing and reading geological, topographic and contour maps, and calculating the amounts of backfill and cut.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	87	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	6
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	63	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	4
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**	4	20% (20)		LO #1, 2, 3 and 4
	Assignments	3	10% (10)		LO # 3 and 4
	Projects / Lab.				
	Report	2	10% (10)		LO # 1-7
Summative	**Midterm Exam**	2 hr	10% (10)	7	LO # 1-7

assessment	**Final Exam**	3 hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Definition of engineering geology
Week 2	Definition of engineering geology The relationship between geology and civil engineering
Week 3	Definition of natural minerals and their engineering properties Clay Mineralogy
Week 4	Introduction to rocks and their types in the Earth's crust Definition of sedimentary, igneous and metamorphic rocks, their types and geological characteristics
Week 5	Introduction to rocks and their types in the Earth's crust Definition of sedimentary, igneous and metamorphic rocks, their types and geological characteristics
Week 6	Weathering, erosion and soil formation
Week 7	Geological structures - folds, faults and joints in rocks and their impact on engineering structures
Week 8	Engineering properties of rocks - physical and mechanical
Week 9	Engineering properties of rocks - physical and mechanical
Week 10	Midterm examination
Week 11	Topographical and geological maps and the purpose of their study
Week 12	Soil engineering properties - physical, mechanical, and hydraulic properties of the soil
Week 13	Soil engineering properties - physical, mechanical, and hydraulic properties of the soil
Week 14	Ground water - storage and movement of ground water,
Week 15	factors affecting groundwater movement and ground water qualityR
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	Definition of laboratory apparatus
Week 2	Types and properties of minerals
Week 3	Study of the types and composition of igneous rocks
Week 4	Study of the types and composition of metamorphic rocks
Week 5	Study of the types and composition of sedimentary rocks
Week 6	Midterm examination
Week 7	Some tests on rocks
Week 8	Topographical and geological maps drawings
Week 9	Preparatory week before the final Exam

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	Basic of geology for engineers	Yes
Recommended Texts	Engineering Geology Soil mechanic and foundation engineer	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.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Statistics I**			**Module Delivery**	
Module Type	**Supported**			☒ **Theory** ☒ **Lecture** ☐ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	CE105				
ECTS Credits	**3**				
SWL (hr/sem)	**75**				
Module Level		UGI	**Semester of Delivery**		Two
Administering Department		Type Dept. Code	**College**	Type College Code	
Module Leader	Mohammed Ghanim		**e-mail**	Mohammed_g72@uomosul.edu.iq	
Module Leader's Acad. Title		Assistant lecture	**Module Leader's Qualification**		MSc
Module Tutor	Name (if available)		**e-mail**	E-mail	
Peer Reviewer Name		امينة احمد خليل	**e-mail**	amina.alshumam@uomosul.edu.iq	
Scientific Committee Approval Date		01/06/2023	**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	1. Introduce the student to collecting and presenting statistical data 2. Classifying and tabular the engineering information in a manner consistent with the data and the field of academic work 3. an ability to conduct experiments, analyze and interpret data 4. The ability to identify and solve engineering problems. 5. Take the appropriate decision through scientific analysis of information
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1 Develop a clear and concise description of the problem. 2 Identify, at least tentatively, the important factors that affect this problem or that may play a role in its solution. 3 Propose a model for the problem, using scientific or engineering knowledge of the phenomenon being studied. State any limitations or assumptions of the model. 4 Conduct appropriate experiments and collect data to test or validate the tentative model or conclusions made 5 Refine the model on the basis of the observed data. 6 Manipulate the model to assist in developing a solution to the problem. 7 Conduct an appropriate experiment to confirm that the proposed solution to the problem is both effective and efficient. 8 Draw conclusions or make recommendations based on the problem solution. 9. An ability to identify, analyze, and solve complex engineering problems according to principles of engineering, science, and mathematics.
Indicative Contents المحتويات الإرشادية	- Introduction: nature of statistics. [8 hr] - The statistical terms: nature of statistical data, Distributions, Measures of central location, Measures of variation or dispersion. [12 hr] - Elementary probability theory, Probability distribution , Discrete probability distribution . [14 hr] - Continues probability distribution, Sampling theory, Estimation theory, Statistical decision theory, Simple regression and correlation. [14 hr]

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	Type something like: The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	33	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	42	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	3
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	75		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	3	24% (24)	5, 10,1	LO #1, 2-9
	Assignments	6	12% (12)	2, 12	LO # 3, 4, 6 and 7
	Projects / Lab.				
	Report	1	4% (4)		LO # 3, 4, 6 and 7
Summative assessment	**Midterm Exam**	2 hr	10% (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	General introduction of Engineering Statistics

Week 2	Data Presentation: Tabular presentation /Creating Frequency Table.
Week 3	Graphical presentation (Histogram, Frequency Polygon).
Week 4	Measures of central tendency (Arithmetic mean, median and mode, the relation between the central tendency measures for unimodal distributions
Week 5	Measurement of dispersion and variation, absolute dispersions (ungrouped data)
Week 6	Measurement of dispersion and variation, absolute dispersions (grouped data)
Week 7	Measurement of dispersion and variation, absolute dispersions (grouped data)
Week 8	**Probability:** Basic Concepts of Probability Theory
Week 9	Rule of Probability Additional rule Two events, mutually and non-mutually events
Week 10	Three events, mutually and non-mutually events
Week 11	Multiplication rule, Tow events, (independent and dependent events)
Week 12	The definition of conditional probability and their properties. Bayes' theorem
Week 13	The definition and classification of random variable (Discrete and Continuous), type of discrete distribution
Week 14	Discrete probability distributions (Binomial distribution)
Week 15	Discrete probability distributions Poisson distribution).
Week 16	Final Exam

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	**Available in the Library?**
Required Texts	مدخل الى الاحصاء ، د. خاشع الراوي	Yes
Recommended Texts	Introduction to Probability and Statistics for Engineers, Holický, Milan	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.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	Democracy and Human Rights			**Module Delivery**	
Module Type	Support			☐ **Theory** ☒ **Lecture** ☐ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	UOM104				
ECTS Credits	2				
SWL (hr/sem)	50				
Module Level	1	**Semester of Delivery**	three		
Administering Department		**College**			
Module Leader		**e-mail**			
Module Leader's Acad. Title		**Module Leader's Qualification**			
Module Tutor		**e-mail**			
Peer Reviewer Name		**e-mail**			
Scientific Committee Approval Date	10/7/2023	**Version Number**	1.0		

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

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	The aim of studying the democracy and human rights topics is to: 1. **Understand** the concept of human rights and explore their sources, including international, regional, national, and religious sources.

	2. **Define** administrative corruption, explore its types, and understand its detrimental effects on society. Study methods to combat administrative corruption and promote transparency, accountability, and good governance. 3. **Trace** the historical development and evolution of human rights, examining key milestones and movements that have shaped the modern understanding of human rights. 4. **Differentiate** between different categories of human rights, including civil and political rights, economic and social rights, and environmental, cultural, and developmental rights. 5. **Explore** legal, institutional, and societal guarantees to prevent human rights violations, including guarantees of human rights in Islam, national-level protections, and international safeguards. 6. **Comprehend** the concept of democracy, including its principles, values, and various forms of democratic governance such as direct, semi-direct, indirect, and digital democracy. Overall, studying these topics aims to develop a comprehensive understanding of human rights, democracy, and combating corruption, empowering individuals to actively promote and protect human rights and democratic values in society.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	After these module aims, students should be able to: 1. Demonstrate a comprehensive understanding of the concept of human rights and their sources, including international, regional, national, and religious sources. 2. Identify and explain the fundamental characteristics of human rights, such as universality, indivisibility, interdependence, and inalienability. 3. Analyze the historical emergence and evolution of human rights, including key milestones and movements that have shaped their development. 4. Differentiate between different categories of human rights, including civil and political rights, economic and social rights, and environmental, cultural, and developmental rights. 5. Evaluate and apply legal, institutional, and societal guarantees to prevent human rights violations, considering guarantees in Islam, at the national level, and within the international framework. 6. Understand and discuss the concept of democracy, including its principles, values, and different forms of democratic governance. 7. Evaluate the Islamic stance on democracy and engage in critical analysis of the strengths and weaknesses of the democratic system. 8. Recognize and assess the impact of administrative corruption on society and propose methods to combat and prevent corruption in administrative systems. 9. Demonstrate critical thinking skills by analyzing and evaluating different perspectives on human rights, democracy, and corruption. 10. Apply acquired knowledge and skills to promote and protect human rights, democracy, and good governance in personal, professional, and civic contexts. Overall, students should have a solid understanding of democracy and human rights, democracy, and corruption issues, and be able to apply this knowledge to contribute to the advancement of human rights and democratic values in society.

Indicative Contents المحتويات الإرشادية	The indicative content includes: 1. Definition and sources of democracy and human rights (international, regional, national, religious). [3h] 2. Characteristics of democracy and human rights: universality, indivisibility, interdependence, inalienability. [3h] 3. Emergence and evolution of human rights: historical development, key milestones, influential movements. [3h] 4. Types of human rights: civil and political, economic and social, environmental, cultural, and developmental. [3h] 5. Guarantees to prevent human rights violations: legal, institutional, societal safeguards, Islamic guarantees, national and international levels. [3h] 6. Concept of democracy: principles, values, forms of governance (direct, semi-direct, indirect). [3h] 7. Islamic stance on democracy: compatibility, strengths, weaknesses. [3h] 8. Critique of the democratic system: analysis of strengths and weaknesses. [3h] 9. Administrative corruption: definition, types, societal impact. [3h] 10. Methods to combat administrative corruption. [3h]

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	When it comes to learning and teaching strategies for a human rights module, there are several approaches can be taken to enhance understanding and engagement. Here are some effective strategies: 1. Interactive Discussions: Encourage students to actively participate in discussions, debates, and group activities. This promotes critical thinking, allows for different perspectives to be shared, and fosters a deeper understanding of human rights issues. 2. Case Studies: Present real-life case studies that highlight human rights violations or achievements. Analyzing these cases helps students apply theoretical concepts to practical situations and develops their problem-solving skills. 3. Research Projects: Assign research projects on specific human rights topics or issues. This encourages independent learning, critical analysis, and the development of research skills. 4. Collaborative Learning: Foster collaboration among students through group projects or assignments. This encourages teamwork, peer learning, and the exchange of diverse perspectives. 5. Assessment Variety: Use a variety of assessment methods, including essays, presentations, debates, and quizzes, to assess students' understanding of human rights concepts and their ability to apply them to real-world situations.

Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	33	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	17	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	1
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	50		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	2	10% (10)	5, 10	LO #2, 4, 6 and 8
	Assignments	2	20% (20)	3, 5, 8, 11, 13	LO # 1, 3, 7, 6, 9 and 10
	Projects / Lab.		10% (10)		
	Report	1	10% (10)	13	LO # 2,4,5,7,9and 10
Summative assessment	**Midterm Exam**	2 hr	10% (10)	7	LO # 1-7
	Final Exam	3 hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Definition of human rights and sources of rights (international sources / regional sources / national sources / religious sources).
Week 2	Characteristics of human rights.
Week 3	The emergence and evolution of human rights.
Week 4	Types of human rights / civil and political rights. Economic and social rights. Environmental, cultural, and developmental rights.
Week 5	Guarantees to prevent human rights violations / guarantees of human rights in Islam.
Week 6	Guarantees for the protection of human rights at the national level.
Week 7	Guarantees of human rights at the international level.
Week 8	The concept of democracy.

Week 9	Characteristics of a democratic system.
Week 10	Forms of democratic governance (direct democracy / semi-direct democracy / indirect democracy).
Week 11	Digital democracy / definition and advantages and disadvantages of digital democracy / manifestations of digital democracy.
Week 12	The Islamic stance on democracy.
Week 13	Critique of the democratic system.
Week 14	Administrative corruption / definition and types.
Week 15	Methods to combat administrative corruption.
Week 16	**Preparatory week before the final Exam**

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	
Week 2	
Week 3	
Week 4	
Week 5	
Week 6	
Week 7	

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	ضمانات حقوق الانسان وحمايتها وفقا للقانون الدولي والتشريع الوطني / نبيل عبد الرحمن ناصر الدين	No
Recommended Texts	الديمقراطية وحقوق الانسان / د. امير عبد العزيز	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.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**English Language**			**Module Delivery**	
Module Type	Basic			☐ **Theory** ☒ **Lecture** ☐ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	UOM102				
ECTS Credits	2				
SWL (hr/sem)	50				
Module Level	UGI		**Semester of Delivery**	1	
Administering Department	Type Dept. Code		**College**	Type College Code	
Module Leader	Muna Mubarak Hano		**e-mail**	Hanom2020@uomosul.edu.iq	
Module Leader's Acad. Title	Lecturer		**Module Leader's Qualification**	Ph.D.	
Module Tutor			**e-mail**		
Peer Reviewer Name			**e-mail**		
Scientific Committee Approval Date	01/06/2023		**Version Number**	1	

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	The objective of the English class is to develop vocabulary and speaking skills,

أهداف المادة الدراسية	focusing on personal introductions and basic conversation topics. Students will learn to express personal information, talk about their world, discuss family and friends, describe their preferences, and communicate about sports, food, and drinks. The class aims to enhance reading and listening skills through engaging texts and audio materials while improving writing skills through various writing tasks. Additionally, students will practice proper pronunciation and expand their vocabulary by learning adjectives, question words, and basic language structures. By the end of the course, students will have gained confidence in using English for everyday communication, improved their language proficiency in speaking, reading, writing, and listening, and developed a broader range of vocabulary.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	The outcome of the English class is 1. Developed a strong vocabulary and improved speaking skills for basic conversation and personal introductions. 2. Acquired knowledge about different countries, their cultures, and improved reading and speaking abilities to discuss them. 3. Gained proficiency in using personal pronouns (he/she/they) and possessive pronouns (his/her/their). 4. Enhanced reading and listening skills by understanding and responding to texts on topics such as jobs, personal information, and social expressions. 5. Strengthened reading and writing skills through activities focused on family, possessive forms, and the alphabet. 6. Expanded vocabulary related to sports, food, drinks, languages, nationalities, numbers, and prices, while improving pronunciation. 7. Developed the ability to ask questions using question words, use pronouns (me/him/us/them), and express preferences using adjectives. 8. Improved overall vocabulary and communication skills in both speaking and listening through various activities and exercises. 9. An ability to acquire and apply new knowledge and using appropriate learning strategies. 10. An ability to participate and work professionally and ethically in different projects to function on multi-disciplinary teams.
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. Part A - Reading and Writing: -Developing reading comprehension skills through texts and passages related to various topics. -Practicing writing skills through activities such as summarizing, paragraph writing, and essay writing. [30 hrs] Part B -Vocabulary: -Building vocabulary related to different themes and contexts, including greetings, personal information, occupations, sports, food, drinks, etc. -Expanding word knowledge through exercises, word associations, and contextual

	usage [10 hrs]
	Part C -Listening and Speaking: -Enhancing listening skills through audio materials, dialogues, and conversations. -Engaging in speaking activities to improve fluency, pronunciation, and communication skills.
	-Participating in discussions, role-plays, and presentations to develop oral proficiency. [7 hrs]

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	33	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	17	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	1
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	50		

Module Evaluation تقييم المادة الدراسية				
	Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**

Formative assessment	**Quizzes**	3	18% (18)	5, 10	LO #3, 4, 5, and 6
	Assignments	3	18% (18)	2, 12	LO #1, 2, 5, and 6
	Report	1	4%(4)		LO # 1-10
Summative assessment	**Midterm Exam**	2 hr	10% (10)	7	LO # 1-7
	Final Exam	3 hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Unit 1- Hello.
Week 2	Vocabulary and speaking.
Week 3	Unit 2- your world. Countries • he/she/they, his/her • Where's he from?
Week 4	Reading and Speaking.
Week 5	Unit 3- All about you. Jobs • am/are/is • Negatives and questions • Personal information • Social expressions.
Week 6	Reading and Listening.
Week 7	**Mid-term Exam**
Week 8	Unit 4- Family and friends. our/their • Possessive 's • The family • has/have • The alphabet
Week 9	Reading and Writing.
Week 10	Unit 5- The way I live. Sports/ Food/ Drinks • Present Simple - I/you/we/they • a/ an Languages and nationalities • Numbers and prices.
Week 11	Vocabulary and Pronunciation.
Week 12	Unit 6- My favorites.

	Question words • me/him/us/them • this/that Adjectives • Can I ... ?
Week 13	Vocabulary -Adjectives
Week 14	Reading and Writing
Week 15	Speaking and Listening.
Week 16	**A preparatory week before the Final Exam**

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	**Available in the Library?**
Required Texts	New headway, beginner student's book. John and Liz Soars.	Yes

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 is 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.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Mathematics II**			**Module Delivery**	
Module Type	**Core**			☒ **Theory** ☒ **Lecture** ☐ **Lab** ☒ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**CE106**				
ECTS Credits	**7**				
SWL (hr/sem)	**175**				
Module Level		UGI	**Semester of Delivery**		2
Administering Department		Type Dept. Code	**College**	Type College Code	
Module Leader	Mohammed Th. Al-Neima Ahmad Ibrahim		**e-mail**	mohammedmth@uomosul.edu.iq	
Module Leader's Acad. Title		Lecture Assistant lecture	**Module Leader's Qualification**		Ph.D. M.SC.
Module Tutor			**e-mail**		
Peer Reviewer Name		Amina A Khaleel	**e-mail**	amina.alshumam@uomosul.edu.iq	
Scientific Committee Approval Date		1/06/2023	**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	3. Provide the fundamental base for elementary mathematics about integraltion. 4. Use mathematical integration to find the area, length of the curve and volume.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	7. Integral some functions. 8. Apply integral information to find the area between tow curves. 9. Apply integral information to find the volume generated by revolving the area. 10. Know the inverse functions. 11. Apply the technique of integration to solve integral problems. 12. An ability to identify, analyze, and solve complex engineering problems according to principles of engineering, science, andmathematics. 13. An ability to acquire and apply new knowledge and using appropriate learning strategies. 14. An ability to participate and work professionally and ethically in different projects to function on multi-disciplinary teams.
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. Chapter 1 Integrating , finding the area with x-axis, Definite integrals, indefinite integrals [10 hrs] Chapter 2 Application of definite integrals, Areas between Curves, Volumes of solids of revolution, Disks and Washers. Cylindrical shells, length of curves in the plane, Areas of surfaces of Revolution. [20 hrs] Chapter 3 The calculus of transcended functions, inverse functions, $\ln x, e^x$ and logarithmic differentiation, General exponential and logarithmic function. Indeterminate forms and l'Hopital's Rules, The inverse of trigonometric functions. [20 hrs] Chapter 4 Techniques of integration, basic integration formulas, Integration by parts, Trigonometric integrals, Trigonometric substitution, Rational functions and partial fractions [25 hrs]

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	Type something like: The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	78	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	5
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	97	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	6
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	175		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	3	30% (30)	5, 10	LO #1, 2, 3-8
	Onlie assignments	1	4% (4)	2, 12	LO # 1-8
	Onsite assignments	1	4% (4)	2, 12	LO # 1-8
	Report	1	2% (2)	2, 12	LO # 1-8
Summative	**Midterm Exam**	2 hr	10% (10)	8	LO # 1-3

assessment	**Final Exam**	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Integrating , finding the area with x-axis
Week 2	Definite integrals, indefinite integrals
Week 3	Application of definite integrals, Areas between Curves
Week 4	Volumes of solids of revolution, Disks and Washers
Week 5	Cylindrical shells,
Week 6	length of curves in the plane
Week 7	Areas of surfaces of Revolution
Week 8	The calculus of transcended functions, inverse functions,
Week 9	$\ln x, e^x$ and logarithmic differentiation
Week 10	General exponential and logarithmic function
Week 11	Indeterminate forms and l'Hopital's Rules, The inverse of trigonometric functions
Week 12	Techniques of integration, basic integration formulas
Week 13	Integration by parts
Week 14	Trigonometric integrals, Trigonometric substitution
Week 15	Rational functions and partial fractions
Week 16	**Preparatory week before the final Exam**

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Thomas' Calculus by Finney and Thomas.	Yes
Recommended Texts	**Calculus by Ron Larson, Bruce Edwards.**	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.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Engineering Mechanics II**			**Module Delivery**	
Module Type	**Core**			☒ **Theory** ☐ **Lecture** ☐ **Lab** ☒ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**CE107**				
ECTS Credits	**7**				
SWL (hr/sem)	**175**				
Module Level		UGI	**Semester of Delivery**		2
Administering Department		Type Dept. Code	**College**	Type College Code	
Module Leader	Ashtar Saleh Ahmed Dr. Qutayba N. Al-Saffar		**e-mail**	aziztaher@uomosul.edu.iq dr.qutayba@uomosul.edu.iq	
Module Leader's Acad. Title		Assistant Professor	**Module Leader's Qualification**		MSc
Module Tutor	Ashtar Saleh Ahmed Assistant Professor		**e-mail**	E-mail: aziztaher@uomosul.edu.iq	
Peer Reviewer Name		*Dr. Suhaib Y Al-darzi*	**e-mail**	suhaib.qasim@uomosul.edu.iq	
Scientific Committee Approval Date		01/06/2023	**Version Number**		1.0

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module		**Semester**	
Co-requisites module	Mechanic of Materials	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	This course aims to introduce the student to Friction with application examples, concept of centroid and center of gravities, concept of moment of inertia. In additions to Introduction to dynamic's engineering mechanics.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	13. Friction, with application examples. 14. Concept of Centroid and center of gravities. 15. Concept of Moment of inertia. 16. Introduction to dynamic's engineering mechanics. 17. An ability to identify, analyze, and solve complex engineering problems according to principles of engineering, science, andmathematics. 18. An ability to acquire and apply new knowledge and using appropriate learning strategies. 19. An ability to participate and work professionally and ethically in different projects to function on multi-disciplinary teams.
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. **Chapter 1** Introduction Fundamental concept, Reviewing for Engineering Mechanics-I with application examples **[5 hrs].** **Chapter 2** Friction Introduction, Characteristics of Dry Friction, with application examples **[15 hrs]** **Chapter 3** Centroids and Center of Gravities Part A: Introduction, Centroid and center of gravities by integration. **[10 hrs]** Part B: Centroids for combined areas. **[10 hrs]** **Chapter 4** Moment of Inertia Part A: Concept of Moment of inertia. **[10 hrs]** Part B: Moment of inertia for combined areas. **[10 hrs]** Part C:

	Moment of inertia for an area about inclined axes. **[10 hrs]** **Chapter 5** Dynamics Introduction to dynamic (basics, definitions and concepts of projectiles). **[20 hrs]**

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	Type something like: The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	78	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	5
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	97	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	6
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	175		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative	**Quizzes**	2	20% (20)	4, 12	LO # 1,2, 3 and 4

assessment	**Assignments**	1	10% (10)	4, 12	LO # 2, 3 and 4
	Projects / Lab.	1	8% (8)	4, 12	LO # 2, 3 and 4
	Report	1	2%		
Summative assessment	**Midterm Exam**	2 hr	10% (10)	7	LO # 1-7
	Final Exam	2hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Introduction, Basic concepts, Reviewing for Engineering Mechanics-I with application examples
Week 2	Concepts of friction (definitions and application examples)
Week 3	Problems
Week 4	Concept of centroids and center of gravities
Week 5	Centroid by integration
Week 6	Centroids for combined areas
Week 7	Problems
Week 8	Concept of Moment of inertia
Week 9	Moment of inertia for combined areas
Week 10	Product of inertia of an area
Week 11	Problems
Week 12	Moment of inertia for an area about inclined axes
Week 13	Problems
Week 14	Introduction to dynamic (basics, definitions and concepts of projectiles)
Week 15	Problems

Week 16	**Preparatory week before the final Exam**

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	"Engineering Mechanics-Dynamic", (1990), (Book language: Arabic)	Yes
Recommended Texts	Engineering Mechanics-Dynamic", (2010), R.C. Hibbeler ,12 edition. (Book language: English)	Yes
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.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**ENGINEERING DRAWING II**			**Module Delivery**	
Module Type	**core**			☐ **Theory** ☒ **Lecture** ☒ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	CE108				
ECTS Credits	**6**				
SWL (hr/sem)	**150**				
Module Level	UGI		**Semester of Delivery**	2	
Administering Department	Type Dept. Code		**College**	Type College Code	
Module Leader	Ibtesam hazem/sura abd-alrazaaq		**e-mail**	ibtesam_alzubady_b-s@uomosul.edu.iq	
Module Leader's Acad. Title	Lecturer		**Module Leader's Qualification**	MSc	
Module Tutor	Name (if available)		**e-mail**	E-mail	
Peer Reviewer Name	امينة احمد خليل		**e-mail**	amina.alshumam@uomosul.edu.iq	
Scientific Committee Approval Date	01/06/2023		**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	7. To know about isometric projection. 8. Different lines used for representation of different Engineering Sections. 9. To know how to estimate missing view. 10. Qualifying students to use Autocad for engineering drawings efficiently in order to help them in their designs & projects.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	11- Identify and use of different grades of pencils and other drafting instruments which are used in engineering field . 12- Draw free hand sketches of various kinds of objects. 13- Generate isometric (3D) drawing from different 2D (orthographic)

	views/sketches. 14- Identify conventions for different engineering materials, symbols, sections of regular objects and general fittings used in Civil and Electrical household appliances. 15- Find the missing views. 16- students will be able to use Autocad commands to make drawings, create annotations, create & insert symbols, dimension a drawing, create blocks, and plot drawings with certain scales. 17- An ability to identify, analyze, and solve complex engineering problems according to principles of engineering, science, andmathematics. 18- An ability to acquire and apply new knowledge and using appropriate learning strategies. 19- An ability to participate and work professionally and ethically in different projects to function on multi-disciplinary teams.
Indicative Contents المحتويات الإرشادية	Indicative content includes the following: Introduction in in Isometric drawing then explain its type , Circles Isometric [10] , Inclined Surfaces in Isometric [4] , Missing View [6] , Sectional Views, Parts not sectioned [10] , Autocad commands [30].

Learning and Teaching Strategies
استراتيجيات التعلم والتعليم

Strategies	The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students.

Student Workload (SWL)
الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	63	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	87	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	6
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**	1	12% (12)	4, 13	LO #3, 4, 5 and 6
	H.W &	1	8% (8)	1, 13	LO #3, 4, 5 and 6
	Autocad	1	10%(10)	8,15	LO #6
	C.W	1	10%		
Summative assessment	**Midterm Exam**	2 hr	10% (10)	7	LO # 1-6
	Final Exam	3 hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي

	Material Covered
Week 1	Pictorial Drawing- Isometric drawing
Week 2	Circles Isometric
Week 3	Inclined Surfaces in Isometric
Week 4	Missing View
Week 5	Dimensions and Notes
Week 6	Sectional Views
Week 7	Parts not sectioned
Week 8	Getting started: 1- Start a new drawing. 2- User Interface. 3- Drafting settings I (Snap, Rectangular & Isometric grid). 4- Limits. 5- Units. 6- Absolute & Relative coordinate system. 7- Ortho.
Week 9	Drawing I 1- 2- Line, Arc, Circle, Ellipse, Polygon, Rectangle,
Week 10	Drawing II, View. 1- Zoom, Pan, 2- Drafting settings II.(Osnap, Polar snap). 3- Pline, Pedit. 4- Erase. 5- Selecting objects. 6- Ltype, Ltscale.awing II, View. 1- Zoom, Pan, 2- Drafting settings II.(Osnap, Polar snap). 3- Pline, Pedit. 4- Erase. 5- Selecting objects. 6- Ltype, Ltscale.
Week 11	Modify I, Drawing III: 1-Copy, Rotate, Move, Scale, Stretch. 2- Undo, U, Redo. 3-, Lweight. 4- Divide, Measure.5- Point (DDPTYPE).
Week 12	Layers, Modify II: 1- Working with Layers. 2- Properties (Mo, Ch). 4- Working with Grips.
Week 13	**Modify III.** 1- Array, Offset, Fillet, Chamfer, Trim, Extend, Lengthen, Mirror,Break, Join, Explode.
Week 14	Annotation I, Modify IV, Inquiry: 1-Style, Text, Mtext, Ddedit,. 2- ID, Dist, Area, Massprop
Week 15	Annotation II: 1- Dimensions & Leaders.
Week 16	Final Exam

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	**Available in the Library?**
Required Texts	Engineering Drawing and Graphic Technology, By French & Vierk , Twelve edition Autodesk Autocad 2020 online Help	yes

Recommended Texts	Technical drawing with engineering	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.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Computer**			**Module Delivery**	
Module Type	**Basic**			☒ **Theory** ☐ **Lecture** ☒ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**UOM 103**				
ECTS Credits	**3**				
SWL (hr/sem)	**75**				
Module Level	1		**Semester of Delivery**	1	
Administering Department	**Dam and Water Resources Engineering (DWRE)**		**College**	**College of Engineering**	
Module Leader	Dr. Talal Ahmed Basheer		**e-mail**	t.basheer@uomosul.edu.iq	
Module Leader's Acad. Title	Lecturer		**Module Leader's Qualification**	Ph.D.	
Module Tutor	Omar Kanaan Taha		**e-mail**	omar.alsultan@uomosul.edu.iq	
Peer Reviewer Name	**Dr. Anmar Abdulazeez Al Talib**		**e-mail**	Anmar.altalib@uomosul.edu.iq	
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	The Module aim is to prepare student to deal with computers. In addition to, teach the student the fundamentals of computers and its components. Furthermore, learning how

أهداف المادة الدراسية	to use two of Microsoft Office applications (Word and Excel).
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	It is expected from the student who passes this module learn the following topics: 1. Computers and Operating System 2. Software and Hardware Interaction 3. Windows File Management 4. Operating System Customization 5. Computer Hardware 6. Monthly LAB Exam 7. Exploring Microsoft Office 2013 8. Getting Started with Word Essentials 9. Editing and Formatting Documents 10. Getting Started with Excel Essentials 11. Organizing and Enhancing Worksheets 12. Creating Formulas and Charting Data 13. An ability to identify, analyze, and solve complex engineering problems according to principles of engineering, science, andmathematics. 14. An ability to acquire and apply new knowledge and using appropriate learning strategies. 15. An ability to participate and work professionally and ethically in different projects to function on multi-disciplinary teams.
Indicative Contents المحتويات الإرشادية	Computers and Operating System [6 hr] Software and Hardware Interaction [6 hr] Windows File Management [3 hr] Operating System Customization [3 hr] Computer Hardware [6 hr] Exploring Microsoft Office 2013 [3 hr] Getting Started with Word Essentials [3 hr] Editing and Formatting Documents [3 hr] Getting Started with Excel Essentials [3 hr] Organizing and Enhancing Worksheets [3 hr] Creating Formulas and Charting Data [3 hr]

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The main strategy that will be adopted in delivering this module is to encourage students' participation in the Lab activities, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, laboratory and by considering type of external search involving some of computer technology that are interesting to the students.

Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	48	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	3
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	27	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعياً	2
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	75		

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Quizzes**	1	10% (10)	4, 11	LO #Q1: 1-2, Q2: 7-9
	Assignments	1	5% (5)	3, 10	LO #A1: 1-2, A2: 7-9
	Lab.	1	20% (20)	Continuous	All
	Report	1	5% (5)	14	All
Summative assessment	**Midterm Exam**	2 hr	10% (10)	9	LO # 1-5
	Final Exam	3hr	50% (50)		
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Computers and Operating System
Week 2	Computers and Operating System (Continued)
Week 3	Software and Hardware Interaction
Week 4	Software and Hardware Interaction (Continued)
Week 5	Windows File Management

Week 6	Operating System Customization
Week 7	Computer Hardware
Week 8	Computer Hardware (Continued)
Week 9	Monthly Exam
Week 10	Exploring Microsoft Office 2013
Week 11	Getting Started with Word Essentials
Week 12	Editing and Formatting Documents
Week 13	Getting Started with Excel Essentials
Week 14	Organizing and Enhancing Worksheets
Week 15	Creating Formulas and Charting Data
Week 16	**Preparatory week before the final Exam**

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1, 2	Computers and Operating System
Week 3, 4	Software and Hardware Interaction
Week 5	Windows File Management
Week 6	Operating System Customization
Week 7, 8	Computer Hardware
Week 9	Monthly LAB Exam
Week 10	Exploring Microsoft Office 2013
Week 11	Getting Started with Word Essentials
Week 12	Editing and Formatting Documents
Week 13	Getting Started with Excel Essentials
Week 14	Organizing and Enhancing Worksheets
Week 15	Creating Formulas and Charting Data

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	2015 Computer Literacy BASICS: A Comprehensive Guide to IC3 Connie Morrison, Dolores Wells, Lisa Ruffolo Cengage Learning. ISBN: 128576658X	Available as PDF
Recommended Texts	IC3 GS5 Certification Guide Using Windows 10 & Office 2016	Available as PDF

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.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Statistics II**			**Module Delivery**	
Module Type	**Supportive**			☒ **Theory** ☒ **Lecture** ☐ **Lab** ☒ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	CE109				
ECTS Credits	**3**				
SWL (hr/sem)	**75**				
Module Level		UGI	**Semester of Delivery**		Two
Administering Department		Type Dept. Code	**College**	Type College Code	
Module Leader	Mohammed Ghanim		**e-mail**	Mohammed_g72@uomosul.edu.iq	
Module Leader's Acad. Title		Assistant lecture	**Module Leader's Qualification**		MSc
Module Tutor	Name (if available)		**e-mail**	E-mail	
Peer Reviewer Name		امينة احمد خليل	**e-mail**	amina.alshumam@uomosul.edu.iq	
Scientific Committee Approval Date		01/06/2023	**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	6. Introduce the student to collecting and presenting statistical data 7. Classifying and tabular the engineering information in a manner consistent with the data and the field of academic work 8. an ability to conduct experiments, analyze and interpret data 9. The ability to identify and solve engineering problems. 10. Take the appropriate decision through scientific analysis of information
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	9 Develop a clear and concise description of the problem. 10 Identify, at least tentatively, the important factors that affect this problem or that may play a role in its solution. 11 Propose a model for the problem, using scientific or engineering knowledge of the phenomenon being studied. State any limitations or assumptions of the model. 12 Conduct appropriate experiments and collect data to test or validate the tentative model or conclusions made 13 Refine the model on the basis of the observed data. 14 Manipulate the model to assist in developing a solution to the problem. 15 Conduct an appropriate experiment to confirm that the proposed solution to the problem is both effective and efficient. 16 Draw conclusions or make recommendations based on the problem solution. 17 An ability to identify, analyze, and solve complex engineering problems according to principles of engineering, science, andmathematics. 18 An ability to acquire and apply new knowledge and using appropriate learning strategies. 19 An ability to participate and work professionally and ethically in different projects to function on multi-disciplinary teams.
Indicative Contents المحتويات الإرشادية	- Introduction: nature of statistics. [8 hr] - The statistical terms: nature of statistical data, Distributions, Measures of central location, Measures of variation or dispersion. [12 hr] - Elementary probability theory, Probability distribution , Discrete probability distribution . [14 hr] - Continues probability distribution, Sampling theory, Estimation theory, Statistical decision theory, Simple regression and correlation. [14 hr]

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	Type something like: The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving

	some sampling activities that are interesting to the students.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	33	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	42	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	3
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	75		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	3	24% (8)	5, 10	LO #1, 2, 10 and 11
	Assignments	2	8% (4)	2, 12	LO # 3, 4, 6 and 7
	Projects / Lab.	1	4% (4)		
	Report	1	4% (4)		
Summative assessment	**Midterm Exam**	2 hr	10% (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	Continuous Probability Distributions (normal distribution), Properties
Week 2	Rules to obtain the probability under the Normal Curve
Week 3	normally distributed population with a mean and variance into (N) samples
Week 4	Test of hypothesis: Types of errors in hypothesis testing. The steps of hypothesis test.
Week 5	Hypothesis Test of Two Means with Known Population Variance.
Week 6	Hypothesis Test of Two Means with Known Population Variance.
Week 7	Hypothesis Test of Two Means with Known Population Variance & confidence interval. applications
Week 8	T- test
Week 9	Test of the Mean with Unknown Population Variance using t statistic
Week 10	Test of the mean with unknown population variance using t statistic & confidence interval
Week 11	Test of the Mean with Unknown Population Variance using t statistic. applications
Week 12	F-test, applications
Week 13	F-test, applications
Week 14	χ^2- distribution
Week 15	χ^2-test, applications
Week 16	Final Exam

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	مدخل الى الاحصاء ، د. خاشع الراوي	Yes
Recommended Texts	Introduction to Probability and Statistics for Engineers, Holický, Milan	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.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Electrical Engineering**			**Module Delivery**	
Module Type	**Support**			☒ **Theory** ☒ **Lecture** ☐ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**CE110**				
ECTS Credits	**2**				
SWL (hr./sem)	**50**				
Module Level		UGI	**Semester of Delivery**		2
Administering Department			**College**		
Module Leader			**e-mail**		
Module Leader's Acad. Title			**Module Leader's Qualification**		
Module Tutor	Mr. Yehia Rehab hamdy		**e-mail**	Yehia.rehab@uomosul.edu.iq	
Peer Reviewer Name			**e-mail**		
Scientific Committee Approval Date	18/06/2023		**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	Learn protection from electric shock when working with electricity, constructing electric map of a house and residential building , making good grounding for a

أهداف المادة الدراسية	building and house, how to distribute electrical appliances inside the house, constructing electric bell circuits, fluorescent lamp, tester circuit...etc.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	20- Learn how to connect circuit on series and parallel. 21- Learn how to measure current, voltage and power. 22- Distribution of electrical appliances and equipment within residential buildings, laboratories, government departments...etc 23- How to properly ground electrical equipment and buildings. 24- Protection and prevention from electric lightning. 25- An ability to identify, analyze, and solve complex engineering problems according to principles of engineering, science, andmathematics. 26- An ability to acquire and apply new knowledge and using appropriate learning strategies. 27- An ability to participate and work professionally and ethically in different projects to function on multi-disciplinary teams.
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. **Part A - Circuit Components and values** DC circuits, Current and voltage definitions, Passive sign convention and circuit elements, Resistive networks, real and ideal elements, voltage and current sources. [10 hrs.] **Part B- Circuit reduction** combining sources, Combining resistive elements in series and parallel, delta and star transformation. [10 hrs.] **Part C- Materials and Electrical installation** Conductors, Insulators, and Semiconductors. Lambs, Circuit breakers, bell (buzzer). [10 hrs.]

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	33	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	17	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	1
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	50		

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Quizzes**	3	24% (24)	4,8,12	LO #1, 5, 8 and 9
	Assignments	2	8% (8)	2 to 12	LO #1, 2, 4, 6 7, 8 and 9
	Projects / Lab.	1	4% (4)		
	Report	1	4% (4)	----	LO #1, 2, 4, 6 7, 8 and 9
Summative assessment	**Midterm Exam**	2 hr.	10% (10)	7	LO # 1-5
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Basic Concept & Units: Electricity & atomic structure of substance, current and current density, current flow, electric circuit, E.M. F& potential difference
Week 2	international system of unit, abbreviation for multiples & sub-multiples, quantities derived from SI units, units of force-energy-torque and power, relation between energy and heat, electric units, efficiency & percentage efficiency, electromechanical equivalent of element
Week 3	Ohm's law, resistivity & conductivity

Week 4	temperature affect, internal resistance of a source, open circuit & short circuit
Week 5	equivalent resistance: Series-parallel-circulating current method-floating source method & grouping of E.M.F. sources, double subscript
Week 6	power calculation in D.C circuit
Week 7	Energy calculation in D.C circuit
Week 8	Mid-term Exam
Week 9	General rules for the prevention of electric shock
Week 10	Grounding resistor calculation
Week 11	Grounding installation for houses and buildings
Week 12	Protection and prevention from electric lightning
Week 13	Distribution of electrical appliances and equipment within residential buildings
Week 14	Conducting inspections of electrical devices
Week 15	Voltage drop calculations for transmission lines
Week 16	**Final Exam**

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	**Available in the Library?**
Required Texts	Engineering Circuit Analysis 7th Edition by William Hayt , Jack Kemmerly , Steven Durbin	Yes
Recommended Texts	Schaum's Outline of Basic Circuit Analysis, Second Edition (Schaum's Outlines) 2nd Edition, by John O'Malley	No
Websites	DC Electrical Circuit Analysis: A Practical Approach Copyright Year: 2017.	

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
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Fail Group (0 – 49)	**FX –** Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
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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.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Arabic Language**			**Module Delivery**	
Module Type	**Basic**			☒ **Theory** ☒ **Lecture** ☐ **Lab** ☒ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**Uom101**				
ECTS Credits	**2**				
SWL (hr/sem)	**50**				
Module Level	**2**	**Semester of Delivery**	3		
Administering Department		**College**			
Module Leader		**e-mail**			
Module Leader's Acad. Title	Lecturer	**Module Leader's Qualification**	Ph.D.		
Module Tutor		**e-mail**			
Peer Reviewer Name		**e-mail**			
Scientific Committee Approval Date	11/06/2023	**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 Objectives أهداف المادة الدراسية	1- التعرف على الكلام العربي: من ناحية تعريفة، اقسامة، الى علامات كل قسم منه. 2- معرفة الجملة العربية واقسام الجملة العربية والجمل الاسمية والجمل الفعلية 3- التعرف على حركات الاعراب: سواء كانت اصلية او فرعية

	4- معرفة الطالب بالعفل العربي: من حيث الصحة والاعلال 5- معرفة الطالب الفعل العربي من حيث اللزوم والتعدي 6- معرفة لطالب الفعل العربي من حيث الزمن 7- طرق كتابة العدد و تذكرة وتانيثه 8- معرفة علامات الترقيم في الكلام 9- تعلم قواعد رسم الهمزة 10- التعرف على طريقة كتابة التاء المربوطة، والمبسوطة 11- قل ولا تقل: الأخطاء الشائعة لدى المتكلمين والكتاب 12- معرفة ماهو الأسلوب الخبري، 13- معرفة ماهو الأسلوب الانشائي، 14- تعلم مهارات لغوية: تنمية الذوق اللغوي، وتحسين الأسلوب لدى المتعلمين
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1- ان يعرف الطالب الكلام العربي: من ناحية تعريفة، اقسامة، الى علامات كل قسم منه. 2- ان يتعلم الطالب الجملة العربية واقسام الجملة العربية والجمل الاسمية والجمل الفعلية 3- التعرف على حركات الاعراب: سواء كانت اصلية او فرعية 4- ان يعرف الطالب العفل العربي: من حيث الصحة والاعلال 5- ان يتعلم الطالب الفعل العربي من حيث اللزوم والتعدي 6- معرفة الطالب الفعل العربي من حيث الزمن 7- معرف الطالب طرق كتابة العدد و تذكرة وتانيثه 8- معرفة الطالب لعلامات الترقيم في الكلام 9- ان يتعلم الطالب قواعد رسم الهمزة 10- معرف الطالب على طريقة كتابة التاء المربوطة، والمبسوطة 11- قل ولا تقل: الأخطاء الشائعة لدى المتكلمين والكتاب 12- التعرف على الأسلوب الخبري، 13- معرفة ماهو الأسلوب الانشائي، 14- التعلم على مهارات لغوية: تنمية الذوق اللغوي، وتحسين الأسلوب لدى المتعلمين
Indicative Contents المحتويات الإرشادية	1- التعرف على الكلام العربي: من ناحية تعريفة، اقسامة، الى علامات كل قسم منه[ساعه 2] 2- معرفة الجملة العربية واقسام الجملة العربية والجمل الاسمية والجمل الفعلية، ساعه 2 3- التعرف على حركات الاعراب: سواء كانت اصلية او فرعية، ساعه 2 4- معرفة الطالب بالعفل العربي: من حيث الصحة والاعلال، ساعه 2 5- معرفة الطالب الفعل العربي من حيث اللزوم والتعدي، ساعه 2 6- معرفة لطالب الفعل العربي من حيث الزمن، ساعه 2 7- طرق كتابة العدد و تذكرة وتانيثه، ساعه 2 8- معرفة علامات الترقيم في الكلام، ساعه 2 9- تعلم قواعد رسم الهمزة، ساعه 2 10- التعرف على طريقة كتابة التاء المربوطة، والمبسوطة، ساعه 2 11- قل ولا تقل: الأخطاء الشائعة لدى المتكلمين والكتاب ، ساعه 2 12- معرفة ماهو الأسلوب الخبري، ساعه 2 13- معرفة ماهو الأسلوب الانشائي، ساعه 2 14- التعلم مهارات لغوية: تنمية الذوق اللغوي، وتحسين الأسلوب لدى المتعلمين، ساعه 2

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	الإستراتيجية الرئيسية التي سيتم تبنيها في تقديم هذه الوحدة هي تشجيع الطلاب على المشاركة على المشاركه في الكلام الفربي وكتابته بالصورة الصحيحه ، مع تحسين مهارات التفكير النقدي وتوسيعها في نفس الوقت. سيتم تحقيق ذلك من خلال الفصول والبرامج التعليمية التفاعلية ومن خلال النظر في أنواع التجارب البسيطة التي تتضمن بعض أنشطة أخذ العينات التي تهم الطلاب.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	33	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	17	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	1
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**50**		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	2	20% (20)	5 and 10	LO #1, #2 and #10, #11
	Assignments	2	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Assignments	1	5% (5)	2 and 12	LO #3, #4 and #6, #7
	Report	5	5% (5)	13	LO #5, #8 and #10
Summative assessment	**Midterm Exam**	2hr	10% (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	الكلام العربي: تعريفة، اقسامة، وعلامات كل قسم.
Week 2	الجملة العربية: تعريفها ، اقسامها : الاسمية والفعلية
Week 3	حركات الاعراب: اصلية، فرعية
Week 4	العفل العربي: من حيث الصحة والاعلال
Week 5	الفعل العربي من حيث اللزوم والتعدي
Week 6	الفعل العربي من حيث الزم
Week 7	امتحان
Week 8	العدد: تذكرة، وتانيثه
Week 9	علامات الترقيم في الكلام
Week 10	قواعد رسم الهمزة
Week 11	التاء المربوطة، والمبسوطة
Week 12	قل ولا تقل: الأخطاء الشائعة لدى المتكلمين والكتاب
Week 13	الأسلوب الخبري،
Week 14	والأسلوب الإنشائي
Week 15	مهارات لغوية: تنمية الذوق اللغوي، وتحسين الأسلوب لدى المتعلمين
Week 16	امتحان نهاية الفصل

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	جامع الدروس العربية: الشيخ مصطفى الغلاييني	no
Recommended Texts	الجملة العربية: تأليفها وأقسامها د. فاضل السامرائي	No
Websites	https://www.almrsal.com/post/923401	

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.