Module Information معلومات المادة الدراسية							
Module Title	Arabic Language			Mod	ule Delivery		
Module Type	Basic		☐ Theory ☑ Lecture				
Module Code		QCE0017			□ Lab		
ECTS Credits				☐ Tutorial ☐ Practical			
SWL (hr/sem)	50 Seminar						
Module Level			Semester of Delivery				
Administering I	Department	CIVIL	College	College Engineering			
Module Leader			e-mail				
Module Leader's Acad. Title		Assistant Professor	Module Leader's Qualifica		Qualification	Ph.D.	
Module Tutor	None		e-mail	None		:	
Peer Reviewer Name		None	e-mail Non		None		
Scientific Committee Approval Date		01/06/2023	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 الدر اسية	 تعليم الطلبة مهارات الكتابة على مستوى الأملاء والنحو والصرف فضلا عن تعليم الطلبة اسلوب تحليل النص الادبي بالرجوع الى نصوص ادبية معتبرة فضلا عن تحليل النص القرآني وتعلم قواعد الاملاء 					
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	 اكتساب ما تم تو □يحه من المفردات في □قل" الموا □يع المطلوب بحثها و شمولها" - اكتساب مهارات الكتابة الادبية الصحيحة. - التأكد من □ الطالب قادر على ي الكتابة الموافقة لقواعد اللغة و علامات الترقيم تطوير قدرة الطالب للعمل على ى أداء الواجبات وتسليمها ف ي الموعد المقرر. التفكير الادبي التحليلي القادر على تحليل النصوص الادبية. تطوير قدرة الطالب على ى الحوار والمناقشة. 					
Indicative Contents المحتويات الإرشادية	Indicative content includes the following: - قواعد رسم الهمزة - علامات التنقيط - تحليل نص شعري قديم - الابتداء ونواسخه - العدد و كامة - علامات الاعراب الاصلية والفرعية					

Learning and Teaching Strategies				
استر اتيجيات التعلم والتعليم				
	1) Learning Technologies on Campus using data show or TV			
	screen.			
Strategies	2) White board.			
	3) Hand out lecture notes.			
	4) Hand out some kinds of pictures related to specific topics.			

Student Workload (SWL)

الحمل الدر اسي 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	1.13		
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	50				

Module Evaluation تقييم المادة الدراسية							
	Time/Nu mber Weight (Marks) Week Due Outcome						
	Quizzes	2	15% (15)	5,8	LO # 2, 3,4 and 6, 7		
Formative assessment	Assignments	2	10% (10)	6, 12	LO # 3, 4, 5 and 9, 10 and 11		
assessment	Projects / Lab.	1	10% (10)	Continuous			
	Report	1	5% (5)	13	Continuous		
Summative assessment	Midterm Exam	2 hr	10% (10)	10	LO # 1-9		
assessment	Final Exam	3hr	50% (50)	16 or 17	All		
Total assessn	ient		100% (100 Marks)				

Delivery Plan (Weekly Syllabus)					
	المنهاج الاسبوعي النظري				
	Material Covered				
Week 1	تعليم الطلبة كيفية رسم الهمزة				
Week 2	تعليم الطلبة كيفية رسم الهمزة				
Week 3	تعليم الطلبة كيفية رسم الهمزة				
Week 4	تعليم الطلبة كيفية و □ع علامات الترقيم				
Week 5	تعليم الطلبة كيفية و □ع علامات الترقيم				
Week 6	تعليم الطلبة كيفية و □ع علامات الترقيم				
Week 7	تعليم الطلبة كيفية و □ع علامات الترقيم				
Week 8	تعليم الطلبة كيفية تحليل نص شعري قديم				

Week 9	تعليم الطلبة كيفية تحليل نص شعري قديم
Week 10	تعليم الطلبة كيفية تحليل نص شعري قديم
Week 11	تعليم الطلبة كيفية تحليل نص شعري قديم
Week 12	تعليم الطلبة بقواعد الابتداء ونواسخه
Week 13	تعليم الطلبة بقواعد الابتداء ونواسخه
Week 14	تعليم الطلبة بقواعد الابتداء ونواسخه
Week 15	تعليم الطلبة بقواعد الابتداء ونواسخه
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus)				
المنهاج الاسبوعي للمختبر				
	Material Covered			
Week 1	None			
Week 2				
Week 3				
Week 4				
Week 5				
Week 6				
Week 7				
Week 8	Mid-term Exam			
Week 9				
Week 10				
Week 11				
Week 12				
Week 13				
Week 14				
Week 15				
Week 16				

Learning and Teaching Resources						
	مصادر التعلم والتدريس					
	Text	Available in the Library?				
Required Texts	كتاب اللغة العربية لغير الاختصاص تأليف الدكتور رشيد العبيدي وأخرين كتاب الأملاء الوا □ح تاليف علي الجارم و □مد امي □ النحو الوافي عباس □ س □ النحو الوافي عباس □ س □ النحو الوافي: عباس □ سن -	No				
Recommended Texts	ـ □يف شوقي العربي الادب	No				
Websites						

Grading Scheme مخطط الدرجات						
Group	Grade	التقدير	Marks (%)	Definition		
	A - Excellent	امتياز	90 - 100	Outstanding Performance		
Success	B - Very Good	جيد جدا	80 - 89	Above average with some errors		
Group	C - Good	ختر	70 - 79	Sound work with notable errors		
(50 - 100)	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		

Module Information معلومات المادة الدراسية							
Module Title	Building Materials		S	Mod	ule Delivery		
Module Type	Core		☐ Theory ☑ Lecture				
Module Code		QCE0014			⊠ Lab		
ECTS Credits				☐ Tutorial ☐ Practical			
SWL (hr/sem)	100			☐ Seminar			
Module Level			Semester of Delivery				
Administering I	Department	CIVIL	College	Engineering			
Module Leader	Zainab Hashim Abbas		e-mail	zainab	39@wrec.uoqas	im.edu.iq	
Module Leader'	s Acad. Title	Assist Professor	Module Leader's Qualification		Ph.D.		
Module Tutor	None		e-mail	None		:	
Peer Reviewer Name		None	e-mail None				
Scientific Committee Approval Date		01/06/2023	Version Number		1.0		

Relation with other Modules						
العلاقة مع المواد الدراسية الأخرى						
Prerequisite module	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 الدر اسية	Study and comprehend the general concepts of the physical and chemical composition of structural materials used in civil engineering works				
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	 After successful completion of this module, students should be able to: The student learns about the quality of construction materials The student learns about the physical and chemical composition of structural materials. 				
Indicative Contents المحتويات الإرشادية	Indicative content includes the following: Part A: Classification of material, Properties of material [8 hrs] Part B: Mechanical properties of material clay Brick, Types of Brick according of material [12 hrs] Part C: Types of Mortar Bonding Materials [21 hrs]. Part D:Manufactories of Lime, Manufactories of cement, [3 hrs] Part E: Type of Material use covering the floors production of Tiles, [3 hrs]				

Learning and Teaching Strategies					
استر اتيجيات التعلم والتعليم					
1) Learning Technologies on Campus using data show or T					
	screen.				
Strategies	2) White board.				
	3) Hand out lecture notes.				
	4) Hand out some kinds of pictures related to specific topics.				

Student Workload (SWL)					
الحمل الدراسي للطالب					
Structured SWL (h/sem)	63	Structured SWL (h/w)	4		
الحمل الدراسي المنتظم للطالب خلال الفصل	03	الحمل الدراسي المنتظم للطالب أسبوعيا	4		
Unstructured SWL (h/sem)	37	Unstructured SWL (h/w)	2.466		
الحمل الدراسي غير المنتظم للطالب خلال الفصل	37	الحمل الدراسي غير المنتظم للطالب أسبوعيا	2.400		
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	100				

Module Evaluation تقييم المادة الدراسية Relevant Learning Time/Nu Weight (Marks) Week Due mber Outcome Quizzes 15% (15) 5,8 2 LO # 2, 3,4 and 6, 7 LO # 3, 4, 5 and 9, 2 **Formative Assignments** 10% (10) 6, 12 10 and 11 assessment 10% (10) Projects / Lab. 1 Continuous Report 5% (5) 1 13 Continuous Midterm 10% (10) 10 LO # 1-9 **Summative** 2 hr Exam assessment 50% (50) **Final Exam** 3hr 16 or 17 All 100% (100 Marks) **Total assessment**

Delivery Plan (Weekly Syllabus)						
	المنهاج الاسبوعي النظري					
	*					
	Material Covered					
Week 1	Welcome to this course, syllabus, and expectations. Textbook. underline the importance and significance of engineering drawing					
Week 2	Classification and properties of construction materials					
Week 3	Mechanical properties of materials					
Week 4	Exercise of mechanical properties					
Week 5	Exercise of mechanical properties					
Week 6	An understanding of Clayey brick and brick products used in civil engineering construction and the manufacturing stage					
Week 7	An understanding of Clayey brick and brick products used in civil engineering construction and the manufacturing stage					
Week 8	An understanding of gypsum and gypsum products used in civil Engineering construction and the common acceptance tests on gypsum.					
Week 9	An understanding of gypsum and gypsum products used in civil Engineering construction and the common acceptance tests on gypsum.					
Week 10	An understanding of lime used in civil engineering construction and the Common acceptance tests on lime					
Week 11	An understanding of lime used in civil engineering construction and the Common acceptance tests on lime					
Week 12	An understanding of Cement used in civil engineering construction and the Common acceptance tests on Cement					
Week 13	An understanding of Cement used in civil engineering construction and the Common acceptance tests on Cement					
Week 14	An understanding of the various types of tiles used in civil engineering construction and the					

		common acceptance tests on tile.
W	Veek 15	An understanding of the various types of tiles used in civil engineering construction and the
		common acceptance tests on tile.
W	Veek 16	Preparatory week before the final Exam

	Delivery Plan (Weekly Lab. Syllabus)					
	المنهاج الاسبوعي للمختبر					
	Material Covered					
Week 1	How can save yourself and your colleges and how can write Report					
Week 2	Conduct tests on Bricks					
Week 3	Conduct tests on Bricks					
Week 4	Conduct tests on Gypsum					
Week 5	Conduct tests on Gypsum					
Week 6	Conduct tests on Wood					
Week 7	Conduct tests on Lime					
Week 8	Mid-term Exam					
Week 9	Conduct tests on Lime					
Week 10	Conduct tests on Tile					
Week 11	Conduct tests on Tile					
Week 12	Conduct tests on Cement					
Week 13	Conduct tests on Cement					
Week 14	Conduct tests on Cement					
Week 15	Conduct tests on Aggregate					
Week 16	Conduct tests on Aggregate					

	Learning and Teaching Resources				
	مصادر التعلم والتدريس				
	Text	Available in the Library?			
Required Texts	 Tests in Building Materials, Talib, A. &, Abdul-Muni, S. 2011. IQS- Iraqi Specifications. 	Yes			

	Recommended Fexts	 Building Materials in Civil Engineering: H. Zhang, Second Edition, Woodheed Publishing, 2010. BS Specifications 	No
1	Websites		

Grading Scheme مخطط الدر جات					
Group Grade		التقدير	Marks (%)	Definition	
	A - Excellent	امتياز	90 - 100	Outstanding Performance	
Success	B - Very Good	جيد جدا	80 - 89	Above average with some errors	
Group	C - Good	ختر	70 - 79	Sound work with notable errors	
(50 - 100)	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings	
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria	
Fail Group	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded	
(0 – 49)	F – Fail	راسب	(0-44)	Considerable amount of work required	

Module Information معلومات المادة الدراسية							
Module Title	Engineering Drawing		g I	Mod	ule Delivery		
Module Type	lle Type Core				□ Theory ☑ Lecture		
Module Code		QCE0013			⊠ Lab		
ECTS Credits		٤			☐ Tutorial ☐ Practical		
SWL (hr/sem)		1		□ Seminar			
Module Level			Semester of Delivery				
Administering I	Department	CIVIL	College	Engineering			
Module Leader	Entidhar Jaw	ad Kadhim	e-mail	entidha	r.jawad@wrec.	uoqasim.edu.iq	
Module Leader	's Acad. Title	Assistant lecture	Module Leader's Qualification Mc S		Mc S		
Module Tutor		None e-mail		None		:	
Peer Reviewer Name		None	e-mail	None			
Scientific Committee Approval Date		01/06/2023	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 الدر اسية	 The student can draw geometric shapes, stereoscopic drawings, and sections, and he can read ready-made engineering drawings. The student will be able to draw geometric shapes using AutoCAD. The student imagines the final shape of the engineering drawing The student will be familiar with the tools of engineering drawing. The student is familiar with drawing geometric shapes (lines, circles, arcs). The student learns applications and exercises in vertical and stereo projection and drawing sections. 					
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	 After successful completion of this module, students should be able to: The student will be familiar with the AutoCAD interface and its contents. The student will be familiar with the methods of drawing lines and geometric shapes using the computer. The student learns how to use drawing aids. The student learns about the modification commands represented by displacement, erasure, transfer, rotation,					
Indicative Contents المحتويات الإرشادية	Indicative content includes the following: Part A: Principles previews, Lines in engineering drawing [8 hrs] Part B: Geometric operations. [12 hrs] Part C: Introductory lecture AutoCAD drawing program (a full explanation for the program interface), [21 hrs]. Part D: Complete explanation of the program interface, identify the units of measurement and how to give commands [3 hrs] Part E: Dimension, Pectorial Drawing, Sections.[3 hrs]					

Learning and Teaching Strategies				
استراتيجيات التعلم والتعليم				
	1) Learning Technologies on Campus using data show or TV			
	screen.			
Strategies	2) White board.			
	3) Hand out lecture notes.			
	4) Hand out some kinds of pictures related to specific topics.			

Student Workload (SWL)

الحمل الدراسي للطالب					
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	37	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	2.466		
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	100				

Module Evaluation تقييم المادة الدراسية							
		Time/Nu mber	Weight (Marks)	Week Due	Relevant Learning Outcome		
	Quizzes	2	15% (15)	5,8	LO # 2, 3,4 and 6, 7		
Formative assessment	Assignments	2	10% (10)	6, 12	LO # 3, 4, 5 and 9, 10 and 11		
assessment	Projects / Lab.	1	10% (10)	Continuous			
	Report	1	5% (5)	13	Continuous		
Summative assessment	Midterm Exam	2 hr	10% (10)	10	LO # 1-9		
	Final Exam	3hr	50% (50)	16 or 17	All		
Total assessm	ient		100% (100 Marks)				

	Delivery Plan (Weekly Syllabus)				
	المنهاج الاسبوعي النظري				
	Material Covered				
Week 1	Welcome to this course, syllabus, and expectations. Textbook. underline the importance and significance of engineering drawing				
Week 2	Draw and write a Kufic Letters Draw a parallel line to other line, bisecting the straight lines, bisect the angles, drawing an arc touches two intersecting lines, bisect the angles; an arc touches two lines.				
Week 3	Draw different types of shapes gradient from simple to complicated shapes of decoration Draw projection of three dimension shape with inclined surfaces.				
Week 4	Drawing the dimensions of projection views using specifications of dimensions. Drawing complete projections of complicated three dimensions shape				
Week 5	Drawing Isometric of three dimension shape with planed and inclined surfaces using three projections only.				
Week 6	Drawing Isometric of three dimension shape with planed and inclined surfaces using three projections only.				

Week 7	Drawing Isometric of three dimension shape with planed and inclined surfaces using three projections only.
Week 8	Draw Isometric of three dimension shapes with cylindrical surfaces using three projections only.
Week 9	Draw Isometric of three dimension shapes with dimensions.
Week 10	Draw Isometric of three dimension shapes with dimensions.
Week 11	Draw Isometric of three dimension shapes with dimensions.
Week 12	Draw Isometric with different scale.
Week 13	Draw Isometric with different scale.
Week 14	Draw section with different views and locations.
Week 15	Draw Isometric using two projections only.
Week 16	Preparatory week before the final Exam

	Delivery Plan (Weekly Lab. Syllabus)				
	المنهاج الاسبوعي للمختبر				
	Material Covered				
Week 1	General introduction to the course outline and the AutoCAD Program				
Week 2	Identifying the AutoCAD's interface, working environment, how to save and open files ,drop-down menus and toolbars				
Week 3	Specifying measurement units, drawing scale, drawing limits and grid style				
Week 4	Presenting and defining the commands; Line, pline, erase, copy, and move with examples				
Week 5	Selection methods, views, zoom (in, out, window, all, extents, and object) snap setting, and orthogonal setting, with examples				
Week 6	Presenting the commands; construction line, rectangular, polygon, arc, mirror, offset, and rotate with examples				
Week 7	Presenting the commands; construction line, rectangular, polygon, arc, mirror, offset, and rotate with examples				
Week 8	Mid-term Exam				
Week 9	Presenting the commands; construction line, rectangular, polygon, arc, mirror, offset, and rotate with examples				
Week 10	Presenting the commands; construction line, rectangular, polygon, arc, mirror, offset, and rotate with examples				
Week 11	Presenting the commands; construction line, rectangular, polygon, arc, mirror, offset, and rotate with examples				
Week 12	Presenting the commands; construction line, rectangular, polygon, arc, mirror, offset, and rotate with examples				
Week 13	Presenting the commands; construction line, rectangular, polygon, arc, mirror, offset, and rotate with examples				
Week 14	Presenting the commands; construction line, rectangular, polygon, arc, mirror, offset, and rotate with examples				

Week 15	Application examples (mapping (structural plan) of structural buildings
Week 16	Presenting the commands; output page setup manager, layout and printing (plot), with examples

Learning and Teaching Resources مصادر التعلم والتدريس					
Text Availab					
Required Texts	 Lectures of manual engineering drawing by Ass. Prof. Dr. Mohmad Abd Muslim. 	Yes			
Recommended Texts	- Fundamentals of 2017 AutoCAD by Ali Mahdi- AutoCAD Tutorials by Fangfang.	No			
Websites		•			

Grading Scheme مخطط الدرجات						
Group Grade التقدير Marks (%) Definition		Definition				
	A - Excellent	امتياز	90 - 100	Outstanding Performance		
Success	B - Very Good	ery جيد جدا		Above average with some errors		
Group	C - Good	ختر	70 - 79	Sound work with notable errors		
(50 - 100)	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		

Module Information معلومات المادة الدراسية							
Module Title	Engineering Mechanic		cs I	Mod	ule Delivery		
Module Type	Core				□ Theory ☑ Lecture		
Module Code		QCE0012			□ Lab □ Tutorial		
ECTS Credits		6			☐ Practical		
SWL (hr/sem)	150				☐ Seminar		
Module Level			Semester of Delivery				
Administering I	Department	CIVIL	College	Engine	ering		
Module Leader	Wissam Nadi	ir Najim	e-mail	wissan	n.nadir@wrec.u	oqasim.edu.iq	
Module Leader'	s Acad. Title	Assistant Professor Module		eader's Qualification Ph.D.		Ph.D.	
Module Tutor	Module Tutor None		e-mail None		:		
Peer Reviewer Name		None	e-mail	None		:	
Scientific Committee Approval Date		01/06/2023	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	e Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية		
Module Aims أهداف المادة الدر اسية	 Engineering Mechanics courses teach students about the applications of mechanics to solve problems involving typical engineering elements. Engineering Mechanics courses cover several topics such Newton's Law of motion and gravitation problems, Determine the moment forces and resultant of moments of a body. Engineering Mechanics courses are offered at several levels, including undergraduate, postgraduate, and diploma programs. 		
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	 After successful completion of this module, students should be able to: Illustrate the different types of mechanics problems and issues that can arise in civil engineering; Explain and apply correctly the fundamental principles of mechanics; Solve problems in statics way such that solutions can be communicated for verification; Model basic static and dynamic systems relevant to structural, geotechnical and fluid mechanics and be proficient in applying appropriate analysis methods. 		
Indicative Contents المحتويات الإرشادية	Indicative content includes the following: Part A: Basic Concept [8 hrs] Part B: Resultant of Force System [12 hrs] Part C: Equilibrium [21 hrs]. Part D: Analysis of structures [3 hrs] Part E: Friction [3 hrs]		

Learning and Teaching Strategies			
استر اتيجيات التعلم والتعليم			
	1) Learning Technologies on Campus using data show or TV		
	screen.		
Strategies	2) White board.		
	3) Hand out lecture notes.		
	4) Hand out some kinds of pictures related to specific topics.		

Student Workload (SWL)

الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	57	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	6
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	93	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	3.466
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	150		

Module Evaluation تقييم المادة الدراسية					
		Time/Nu mber	Weight (Marks)	Week Due	Relevant Learning Outcome
	Quizzes	2	15% (15)	5,8	LO # 2, 3,4 and 6, 7
Formative assessment	Assignments	2	10% (10)	6, 12	LO # 3, 4, 5 and 9, 10 and 11
	Projects / Lab.	1	10% (10)	Continuous	
	Report	1	5% (5)	13	Continuous
Summative assessment	Midterm Exam	2 hr	10% (10)	10	LO # 1-9
ussessment	Final Exam	3hr	50% (50)	16 or 17	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)			
	المنهاج الاسبوعي النظري		
	Material Covered		
Week 1	Welcome to this course, syllabus, and expectations. Textbook. Distribution of data, tabular presentation of data.		
Week 2	Apply Newton's Law of motion and gravitation problems.		
Week 3	Perform of rigid-body equilibrium problems using the equations of equilibrium		
Week 4	Calculate the moment of a force, the resultant of a force in two and three dimensions.		
Week 5	Reduce a simple distributed loading to a resultant force having a specified location.		
Week 6	Determine the resultant of forces in the plane and space		
Week 7	Analysis of the forces in space and calculate their components.		
Week 8	Determine the moment forces and resultant of moments of a body.		

Week 9	Determining the moment of couple and resultant of couples in plane.
Week 10	Determining the resultant of some types of distributed load shapes.
Week 11	Definitions of equilibrium and how to recognize the types of supports and draw the FBD.
Week 12	Analysis and determination of reaction and internal forces in the structure using equilibrium equations.
Week 13	Analysis and determination the reactions, internal forces in truss.
Week 14	Determine the forces in trusses types using joint method.
Week 15	Determine the forces in trusses types using section method.
Week 16	Preparatory week before the final Exam

	Delivery Plan (Weekly Lab. Syllabus)		
	المنهاج الاسبوعي للمختبر		
	Material Covered		
Week 1	None		
Week 2			
Week 3			
Week 4			
Week 5			
Week 6			
Week 7			
Week 8	Mid-term Exam		
Week 9			
Week 10			
Week 11			
Week 12			
Week 13			
Week 14			
Week 15			
Week 16			

Learning and Teaching Resources			
	مصادر التعلم والتدريس		
	Text	Available in the Library?	
Required Texts	 Higdon, A. and Stiles, W. B. "Engineering Mechanics", 3rd Ed., Prentice- Hall India,1974. - Hibbeler, R. C. and Fan, S. C., "Engineering Mechanics", Prentice Hall, 1997. 	Yes	
Recommended Texts	- Meriam, J. L. and Kraige, L. G. "Engineering Mechanics", 5th Ed., John Wiley and Sons Inc., 2002	No	
Websites			

Grading Scheme مخطط الدر جات					
Group	Grade التقدير Marks (%) Definition		Definition		
	A - Excellent	امتياز	90 - 100	Outstanding Performance	
Success	B - Very Good		80 - 89	Above average with some errors	
Group	C - Good	ختر	70 - 79	Sound work with notable errors	
(50 - 100)	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings	
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria	
Fail Group	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded	
(0 – 49)	F – Fail	راسب	(0-44)	Considerable amount of work required	

Module Information معلومات المادة الدراسية						
Module Title	Mathematics I			Mod	ule Delivery	
Module Type	Support				□ Theory ☑ Lecture	
Module Code		QCE0011			□ Lab	
ECTS Credits		6		☐ Tutorial ☐ Practical		
SWL (hr/sem)	150			☐ Seminar		
Module Level			Semester of Delivery			
Administering I	Department	CIVIL	College	Engineering		
Module Leader	Abdullah Musa Kadhim		e-mail	abdulla	h@wrec.uoqas	im.edu.iq
Module Leader's Acad. Title		Lecture	Module Leader's Qualification Ph		Ph.D.	
Module Tutor		None e-mail		None		
Peer Reviewer Name		None	e-mail	None		
Scientific Committee Approval Date		01/06/2023	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 الدر اسية	 The aim of this course is for students to learn to draw basic functions and how to derive them. Benefit from derivation in solving engineering applications, Benefit from integration in solving many engineering applications such as Area Between Curves, Volume of Solids of Revolution, Length of Plane Curves, Area of Surface of Revolution. In addition, learn to calculate conic sections. 		
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	 After successful completion of this module, students should be able to: Ability to learn to graph basic functions. Ability to use calculus, in solving engineering applications. Mastery of mathematics to relate it to the stereoscopic geometry of a purpose the answer in descriptive engineering Ability to work as a team. 		
Indicative Contents المحتويات الإرشادية	Indicative content includes the following: Part A: Line and trigonometric function, Domain and range, [8 hrs] Part B: Limits and compositions of functions, Continuous functions and derivatives, [12 hrs] Part C: Application of derivatives, Inverse of trigonometric function, [21 hrs]. Part D: Domain and range of inverse of trigonometric function, [3 hrs] Part E: Conic sections and other plane curves [3 hrs]		

Learning and Teaching Strategies		
استراتيجيات التعلم والتعليم		
	1) Learning Technologies on Campus using data show or TV	
	screen.	
Strategies	2) White board.	
	3) Hand out lecture notes.	
	4) Hand out some kinds of pictures related to specific topics.	

Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	57	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	3
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	93	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	3.466
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	150		

	Module Evaluation تقييم المادة الدراسية					
		Time/Nu mber	Weight (Marks)	Week Due	Relevant Learning Outcome	
	Quizzes	2	15% (15)	5,8	LO # 2, 3,4 and 6, 7	
Formative assessment	Assignments	2	10% (10)	6, 12	LO # 3, 4, 5 and 9, 10 and 11	
assessment	Projects / Lab.	1	10% (10)	Continuous		
	Report	1	5% (5)	13	Continuous	
Summative assessment	Midterm Exam	2 hr	10% (10)	10	LO # 1-9	
assessificit	Final Exam	3hr	50% (50)	16 or 17	All	
Total assessment			100% (100 Marks)			

Delivery Plan (Weekly Syllabus)			
	المنهاج الاسبوعي النظري		
	Material Covered		
Week 1	Welcome to this course, syllabus, and expectations. Textbook. Distribution of data, tabular presentation of data.		
Week 2	Intervals and Analytical Geometry.		
Week 3	Functions and Their Graphs.		
Week 4	Combining Functions		
Week 5	Trigonometric Functions		
Week 6	Limits and continuous functions.		
Week 7	Differentiation Rules and Derivatives of Trigonometric Functions		

Week 8	The Chain Rule and Implicit Differentiation
Week 9	Derivatives of Transcendental Functions
Week 10	Related rates changes, Extreme Values of Functions
Week 11	Concavity and Curve Sketching, Applied Optimization
Week 12	Indefinite Integrals and Definite Integrals
Week 13	Integral of Transcendental Functions.
Week 14	Length of Plane Curves and Area of Surface of Revolution
Week 15	Integration by Parts and Integration by Trigonometric Substitutions.
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus)				
	المنهاج الاسبوعي للمختبر			
	Material Covered			
Week 1	None			
Week 2				
Week 3				
Week 4				
Week 5				
Week 6				
Week 7				
Week 8	Mid-term Exam			
Week 9				
Week 10				
Week 11				
Week 12				
Week 13				
Week 14				
Week 15				
Week 16				

Learning and Teaching Resources				
مصادر التعلم والتدريس				
	Text	Available in the Library?		
Required Texts	 Finney, Weir, C.W. and Giordano, "Tomas Calculus", eleven teen Edition, 2000. Finney, Weir, C.W. and Giordano, "Tomas Calculus", fourteenth Edition, 2017 	Yes		
Recommended Texts	 - Haward, Bivens and Davis., "Calculus ", Pearson Education, Seven Edition, 2002. - James Stewart, "Calculus ", fifth Edition, 2020 	No		
Websites				

Grading Scheme مخطط الدرجات					
Group	P Grade التقدير Marks (%) Definition		Definition		
	A - Excellent	امتياز	90 - 100	Outstanding Performance	
Success	B - Very Good	جيد جدا	80 - 89	Above average with some errors	
Group	C - Good	ختر	70 - 79	Sound work with notable errors	
(50 - 100)	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings	
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria	
Fail Group	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded	
(0-49)	F – Fail	راسب	(0-44)	Considerable amount of work required	

Module Information معلومات المادة الدراسية						
Module Title	Co	Computer Languag			ule Delivery	
Module Type		Basic			☐ Theory	
Module Code		QCE0015	☑ Lecture			
ECTS Credits		4			⊠ Lab □ Tutorial	
SWL (hr/sem)	100				☐ Practical ☐ Seminar	
Module Level			Semester of Delivery			
Administering I	Department	CIVIL	College	Engine	ering	
Module Leader			e-mail			
Module Leader's Acad. Title		Lecture	Module Leader's Qualification			
Module Tutor		None e-mail			None	;
Peer Reviewer Name		None	e-mail	nil None		;
Scientific Committee Approval Date		01/06/2023	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	e Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية
Module Aims أهداف المادة الدراسية	The objectives of these courses are to introduce Computer language to civil engineering • Undergraduate students and to familiarize the students with statistic terminology • Concepts commonly encountered in engineering practices and applications
Module Learning Outcomes	 After successful completion of this module, students should be able to: The ability to use of probability theory and probability distributions in predicting the results of engineering tests. Ability to use a software, such as MS Excel, in the calculations
Indicative Contents المحتويات الإرشادية	Indicative content includes the following: Part A: Computer Programming Introduction, Numbers systems, [8 hrs] Part B: Algorithms and Flow charts, Input, Output and control statements [12 hrs] Part C: Two dimensional Matrices, Sub Programs, Functions [21 hrs]. Part D: Introducing Visual Basic, Visual Basic Fundamentals, Branching And Looping, [3 hrs] Part E: Visual Basic Control Fundamentals, Menus And Dialog Boxes, [3 hrs]

Learning and Teaching Strategies		
استراتيجيات التعلم والتعليم		
	1) Learning Technologies on Campus using data show or TV	
	screen.	
Strategies	2) White board.	
	3) Hand out lecture notes.	
	4) Hand out some kinds of pictures related to specific topics.	

Student Workload (SWL)					
الحمل الدراسي للطالب					
Structured SWL (h/sem)	Structured SWL (h/sem) Structured SWL (h/w) 3				
الحمل الدراسي المنتظم للطالب أسبوعيا الحمل الدراسي المنتظم للطالب خلال الفصل					
Unstructured SWL (h/sem)	52	Unstructured SWL (h/w)	3.466		
الحمل الدراسي غير المنتظم للطالب خلال الفصل	الحمل الدراسي غير المنتظم للطالب أسبوعيا	3.400			
Total SWL (h/sem) 100 الحمل الدر اسي الكلي للطالب خلال الفصل					

Module Evaluation تقييم المادة الدراسية Relevant Learning Time/Nu Weight (Marks) Week Due mber Outcome Quizzes 15% (15) 5,8 2 LO # 2, 3,4 and 6, 7 LO # 3, 4, 5 and 9, 2 **Formative Assignments** 10% (10) 6, 12 10 and 11 assessment 10% (10) Projects / Lab. 1 Continuous Report 5% (5) 1 13 Continuous Midterm 10% (10) **Summative** 10 LO # 1-9 2 hr Exam assessment 50% (50) **Final Exam** 3hr 16 or 17 All 100% (100 Marks) **Total assessment**

	Delivery Plan (Weekly Syllabus)			
	المنهاج الاسبوعي النظري			
	Material Covered			
Week 1	Welcome to this course, syllabus, and expectations. Textbook. Distribution of data, tabular presentation of data.			
Week 2	Computer Programming Introduction			
Week 3	Numbers systems			
Week 4	Algorithms and Flow charts			
Week 5	Algorithms and Flow charts			
Week 6	Two dimensional Matrices			
Week 7	Sub Programs			
Week 8	Functions			
Week 9	Introducing Visual Basic			
Week 10	Visual Basic Fundamentals			
Week 11	Branching And Looping			
Week 12	Visual Basic Control Fundamentals			
Week 13	Menus And Dialog Boxes			
Week 14	Procedures			
Week 15	Arrays			
Week 16	Preparatory week before the final Exam			

	Delivery Plan (Weekly Lab. Syllabus)		
المنهاج الاسبوعي للمختبر			
	Material Covered		
Week 1	Numbers systems		
Week 2	Algorithms and Flow charts		
Week 3	Algorithms and Flow charts		
Week 4	Two dimensional Matrices		
Week 5	Sub Programs		
Week 6	Functions		
Week 7	Functions		
Week 8	Mid-term Exam		
Week 9	Visual Basic Fundamentals		
Week 10	Branching And Looping		
Week 11	Visual Basic Control Fundamentals		
Week 12	Menus And Dialog Boxes		
Week 13	Procedures		
Week 14	Arrays		
Week 15	Arrays		
Week 16	Arrays		

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	مباديء الاحصاء والاحتمالات للعلوم الادارة والتطبيقية) د. محمد محمد المزاح - جامعة العلوم والتكنولوجًا-صنعاء- الطبعة الثالث ة-	Yes
Recommended Texts	- Jim Morrison, 2001, Statistics for Engineers: An Introduction, Wily and sons	No
Websites		

Grading Scheme مخطط الدر جات					
Group Grade التقدير		Marks (%)	Definition		
	A - Excellent	امتياز	90 - 100	Outstanding Performance	
Success	B - Very Good	جید جدا	80 - 89	Above average with some errors	
Group	C - Good	ختر	70 - 79	Sound work with notable errors	
(50 - 100)	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings	
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria	
Fail Group	Fail Group FX – Fail (قيد المعالجة)	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded	
(0 – 49)	0 – 49)		(0-44)	Considerable amount of work required	

Ministry of Higher Education and Scientific Research Al-Qasim Green University/ College of Engineering Civil Engineerig Department



"COURSE PORTFOLIO"

Module Informa	ation			_		
معلومات المادة الدراسية						
Module Title	GENERAL PHYSICS		Module Deli	very		
Module Type	Core			⊠ Th	neorv	
Module Code	QCE2405			⊠ Le	ecture	
ECTS Credits	4			— ⊠ La ⊠ Tu	ıb ıtorial	
SWL (hr/sem)	97				☐ Practical ☐ Seminar	
			□ Se			
Module Level		1	Semester		1	
Department		Civil Engineering	College	College of En	gineering	
Module Leader			E-mail			
Module Leader	Module Leader's Acad. Title Assistant teacher Module Le		eader's Qualific	cation MS.c.		
Module Tutor	Name (if avai	lable)	e-mail E-mail			
Peer Reviewer Name Name		e-mail	E-mail			
Scientific Committee Approval Date 01/06/2023		Version N	umber 1.0			

Student Workload (SWL)					
الحمل الدراسي للطالب					
Structured SWL (h/sem)	Structured SWL (h/sem) Structured SWL (h/w)				
الحمل الدراسي المنتظم للطالب أسبوعيا الحمل الدراسي المنتظم للطالب خلال الفصل					
Unstructured SWL (h/sem)	37	Unstructured SWL (h/w)	2.5		
الحمل الدراسي غير المنتظم للطالب أسبوعيا الحمل الدراسي غير المنتظم للطالب خلال الفصل			2.5		
Total SWL (h/sem) 97					
الحمل الدراسي الكلي للطالب خلال الفصل	3,				

Relation with other Modules:-

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Relation with other Modules				
العلاقة مع المواد الدراسية الأخرى				
Prerequisite module Engineering mechanics Semester 2				
Co-requisites module Fluid mechanics Semester 0000				

Module Aims, Learning Outcomes and Indicative Contents				
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية				
COURSE DESCRIPTION:	This course focuses on the Standards of Length, Mass, and Time, Unit Prefixes:- defined the fundamental units, the SI system of units and the U.S. customary system. Density and Atomic Mass, Dimensional analysis and Conversion of units. Vectors and Scalars quantities and coordinate systems:- Many aspects of physics involve a description of a location in space, and explanation of the Cartesian, cylindrical, and spherical systems, and identification of the mathematical laws that link these systems. Vectors:- Some Properties of Vectors are covered Equality of Two Vectors, Adding Vectors, Negative of a Vector, Subtracting Vectors, Multiplying a Vector by a Scalar, Components of a vector and Unit Vector. It is also taken up motion in one dimension:- Position, Velocity, and Speed, The displacement of a particle, Instantaneous Velocity and Speed, Motion under constant velocity, Acceleration and The Particle Under Constant Acceleration.			
Module Aims أهداف المادة الدر اسية	The aim of this course is to develop the basic skills and knowledge of physics, which is considered a precursor to the engineering subjects that the engineer must deal with, to raise issues related to basic engineering subjects, and to present basic concepts of mechanics to help study this subject.			
	At the completion of the course, students are expected to be able to:			
Module Learning Outcomes	 Definition of basic physical concepts. Define standards of Length, Mass, and Time. Defining unit systems. Describe the difference between unit systems. Defining the unit of measurement for each physical concept. 			
مخرجات التعلم للمادة الدراسية	 6. Determine the approximate values of some measured lengths (m). 7. Determine the masses of Various Objects (kg). 8. Identify of unit prefixes and the ability to convert units to their prefixes. 9. Definition of derived physical quantity. 			

Civil Engineerig Department



	10. Define the density and atomic mass.
	11. Write down the density law.
	12. Solve a problem with the density law.
	13. Able to do dimensional analysis of derived physical quantities.
	14. Define the units of area, volume, velocity, speed, and acceleration.
	15. Solve the problem of conversion of units.
	16. Defines the difference between magnitude and vector quantities.
	17. Gives an example of magnitude and vector quantities.
	18. Describe the coordinate system.
	19. Draw a location point in the coordinate system.
	20. Explains the Cartesian, cylindrical, and spherical systems and writes their
	mathematical relations.
	21. Can draw a vector in the coordinate system.
	22. Describe equality of Two Vectors.
	23. Define adding and subtracting Vectors and Multiplying a Vectors.
	24. Describes a unit vector.
	25. Define the magnitude and direction of the unit vector.
	26. Solve a problem about vectors.
	27. Define Position, velocity, and speed.
	28. Write down the velocity and speed law.
	29. Solve a problem about velocity and speed.
	30. Define instantaneous velocity and speed.
	31. Derive the laws of motion under constant velocity and under constant
	acceleration.
	32. Describe the laws of motion.
	33. Apply the laws of motion to solve problems.
	Indicative content includes the following.
	University Physics with Modern Physics (14th ed.) 2015 (Young and
	Freedman).
Indicative Contents	Dhusias fan Caiantista and Engineers with Madam Dhusias (4.44b ad.) (Camus and
	Physics for Scientists and Engineers with Modern Physics (14th ed.) (Serway and Jewett).
المحتويات الإرشادية	serrettj.
	Schaum's Outline of Theory and Problems of Physics for Engineering and Science.
	Physics for Scientist and Engineers- Strategic Approach with Modern Physics (4th ed.), 2017 (Randall Dewey Knight).

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COURSE SCHEDULE:-

Week	hours	Topics Covered	Learning Outcomes
		Topic I: Physics and Measuren	nent
1-4	8	 Standards of Length, Mass, and Time Length Mass Time Unit Prefixes Density and Atomic Mass Dimensional analysis Conversion of units 	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 and 15
		Topic II: - Vectors and Scala	rs
5-9	10	 Coordinate system Equality of Two Vectors Adding Vectors Negative of a Vector Subtracting Vectors Multiplying a Vector by a Scalar Components of a vector Unit Vector Multiplying a Vector by Vector 	16, 17, 18, 19, 20, 21, 22, 23, 24, 25 and 26
		Topic III: - Motion in one dimen	nsion
10-15	12	 Position, Velocity, and Speed Instantaneous Velocity and Speed Motion under constant velocity Acceleration Graphical Comparison The Particle Under Constant Acceleration 	27, 28, 29, 30, 31, 32, and 33

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Final Exam

Learning Outcomes and Assessment Methods for " General Physics " Course.

Topics Covered	Learning Outcomes	Strategies for Achieving Outcomes	Assessment Methods
Topic I: Physics and Measurement	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 and 15	Report Writing, Theoretical Lectures, Scientific Films.	Quizzes, Major reports, discussions during lectures, Written Exams, oral exam.
Topic II: - Vectors and Scalars	16, 17, 18, 19, 20, 21, 22, 23, 24, 25 and 26	Theoretical Lectures, Report Writing, Small Group Discussions, Solve problems collectively, Scientific Films.	Quizzes, Home work and Major reports, discussions during lectures. Written Exams.
Topic III: - Motion in one dimension	27, 28, 29, 30, 31, 32, and 33	Theoretical Lectures, Solve problems collectively, Scientific Films, Report Writing.	Quizzes, discussions during lectures, Written Exams, Home work and Major reports, oral exams.

Module Evaluation:-

Module Evaluation										
تقييم المادة الدراسية										
		Time/Nu	Weight (Marks)	Week Due	Relevant Learning					
		mber			Outcome					
Formative assessment (40%)	Quizzes	2	10% (10)	8, 13	LO #21, 26, 29 and 31					
	Assignments & H.W.	2	10% (10)	4, 7	LO # 13, 15, 21, and 24					
	Projects / Lab.	1	10% (10)	Continuous						
	Seminar	1	10% (10)							
	Field Visits Report	1	10% (10)	10	LO # 5, 9, 11.12.13,14 and 15					
	Discussions	10	10% (10)	Continuous	ALL					

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	During Lectures				
Summative assessment	Midterm Exam (10%)	2 hr	10% (10)	8	LO # 1-10
	Final Exam (50%)	3hr	50% (50)	16	All
Total assessment		100% (100 Marks)			

توزيع الساعات المجدولة و الغير مجدولة (SWL= SSWL +USWL)

Activity types	Structured SWL	Un structured SWL	No. of weeks	Time Factor	SWL (hr)
Class	Class Lecturers		15	1	15
Tutorial	Class Tutorial		15	1	15
Projects / Lab	Project Work		15	2	30
Self Study		Self Study	15	1	15
Quizzes		Preparation for the Quizzes	2	1	2
Reports		Preparation for the Project	3	1	3
Assignments, Home Work		Preparation for the H.W.	2	1	2
Midterm Exam		Preparation for the Exam.	1	4	4
(10%)		Evaluation	1	1	1
Final Exam		Preparation for the Exam.	1	10	10
(50%)	Evaluation		1	3	3
		Total SWL (hr/ Ser		100	
		ECTS		4	

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدر اسية							
Module Title	Bui	lding Constructi	on	Mod	ule Delivery		
Module Type		Core		☐ Theory			
Module Code		QCE0024	■ Lecture■ Lab				
ECTS Credits		5			☐ Tutorial		
SWL (hr/sem)		125			☐ Practical ☐ Seminar		
Module Level	odule Level		Semester of Delivery				
Administering I	Department	CIVIL	College	Engine	ering		
Module Leader	Zainab Hashir	Zainab Hashim Abbas		zainab89@wrec.uoqasim.edu.iq		n.edu.iq	
Module Leader	's Acad. Title	Assistant Professor Module Le		eader's Qualification Msc.		Msc.	
Module Tutor	None		e-mail	None		:	
Peer Reviewer Name None		e-mail	None		:		
Scientific Committee Approval Date		01/06/2023	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 الدر اسية	The objective of the course is to learn the students how to deal with reinforced concrete structural systems and design them according to design codes.
Module Learning Outcomes	After successful completion of this module, students should be able to: • An ability to apply knowledge of Building Construction, science and engineering
Indicative Contents المحتويات الإرشادية	Indicative content includes the following: Part A: Building construction stages, Buildings classifications [8 hrs] Part B: Earth works, Foundation, Piles works, brick works [12 hrs] Part C: Forms and scaffoldings, Columns, Beams and girders, Concrete works, arches lintels and sills [21 hrs]. Part D: Damping proofing, Kind of stairs and their execution, [3 hrs] Part E: Doors and Windows, Joins in buildings [3 hrs]

Learning and Teaching Strategies				
استر اتيجيات التعلم والتعليم				
	1) Learning Technologies on Campus using data show or TV			
	screen.			
Strategies	2) White board.			
	3) Hand out lecture notes.			
	4) Hand out some kinds of pictures related to specific topics.			

Student Workload (SWL) الحمل الدر اسى للطالب					
	اسي للطالب		T		
Structured SWL (h/sem)	62	Structured SWL (h/w)	4		
الحمل الدراسي المنتظم للطالب خلال الفصل	02	الحمل الدراسي المنتظم للطالب أسبوعيا	7		
Unstructured SWL (h/sem)	62	Unstructured SWL (h/w)	4.2		
الحمل الدراسي غير المنتظم للطالب خلال الفصل	63	الحمل الدراسي غير المنتظم للطالب أسبوعيا	4.2		
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	125				

Module Evaluation	
تقييم المادة الدراسية	

		Time/Nu mber	Weight (Marks)	Week Due	Relevant Learning Outcome
			150/ (15)	7 0	
	Quizzes	2	15% (15)	5,8	LO # 2, 3,4 and 6, 7
T- 4:	A	2	100/ (10)	(12	LO # 3, 4, 5 and 9,
Formative assessment	Assignments	2	10% (10)	6, 12	10 and 11
assessment	Projects / Lab.	1	10% (10)	Continuous	
	Report	1	5% (5)	13	Continuous
Summative	Midterm	2 hr	10% (10)	10	LO # 1-9
assessment	Exam	2 111	1070 (10)	10	LO II 1
assessificit	Final Exam	3hr	50% (50)	16 or 17	All
Total assessn	nent .		100% (100 Marks)		

Delivery Plan (Weekly Syllabus)					
	المنهاج الاسبوعي النظري				
	Material Covered				
Week 1	Welcome to this course, syllabus, and expectations. Textbook. Distribution of data, tabular presentation of data.				
Week 2	Building construction stages				
Week 3	Buildings classifications (Types of construction) and building construction development,				
Week 4	earth works				
Week 5	Foundation				
Week 6	Piles works				
Week 7	brick works				
Week 8	masonry works				
Week 9	Forms and scaffoldings				
Week 10	Columns				
Week 11	Beams and girders				
Week 12	Concrete works				
Week 13	arches lintels and sills				
Week 14	Damping proofing				
Week 15	Kind of stairs and their execution, Doors and Windows, Joins in buildings				
Week 16	Preparatory week before the final Exam				

Delivery Plan (Weekly Lab. Syllabus)				
المنهاج الاسبوعي للمختبر				
	Material Covered			
Week 1	Non			
Week 2				
Week 3				
Week 4				
Week 5				
Week 6				
Week 7				
Week 8	Mid-term Exam			
Week 9				
Week 10				
Week 11				
Week 12				
Week 13				
Week 14				
Week 15				
Week 16				

Learning and Teaching Resources مصادر التعلم والتدريس					
Text Li					
Required Texts	- Building Materials in Civil Engineering: H. Zhang, Second Edition, Woodheed Publishing, 2010.	No			
Recommended Texts	- Tests in Building Materials, Talib, A. &, Abdul- Muni, S. 2011	No			
Websites					

Grading Scheme

مخطط الدرجات						
Group	Grade	التقدير	Marks (%)	Definition		
	A - Excellent	امتياز	90 - 100	Outstanding Performance		
Success	B - Very Good	جيد جدا	80 - 89	Above average with some errors		
Group	C - Good	ختر	70 - 79	Sound work with notable errors		
(50 - 100)	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings		
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria		
Fail Group	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded		
(0 – 49)	F – Fail	راسب	(0-44)	Considerable amount of work required		

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية							
Module Title	En	gineering Geolog	gy	Mod	ule Delivery		
Module Type		Support	☐ Theory				
Module Code		QCE0026	☑ Lecture				
ECTS Credits		3			□ Lab □ Tutorial		
SWL (hr/sem)		75			☐ Practical ☐ Seminar		
Module Level	I		Semester of Delivery				
Administering I	Department	CIVIL	College	Engineering			
Module Leader	Diaa Fliah Hassan		e-mail	diaaflia	nh@wrec.uoqas	im.edu.iq	
Module Leader	's Acad. Title	Assistant Professor	Module Leader's Qualification		Qualification	Ph. D.	
Module Tutor	None		e-mail	None		:	
Peer Reviewer N	Reviewer Name None e-mail None		:				
Scientific Committee Approval Date 01/06/2023 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 الدر اسية	Engineering Geology teaches civil engineering students to learn the fundamental of soil formations, minerals of the different layer.
Module Learning Outcomes	After successful completion of this module, students should be able to: • An ability to apply knowledge of Engineering Geology, science and engineering
Indicative Contents المحتويات الإرشادية	Indicative content includes the following: Part A: The origin of rocks and nature, Geological origin of soil its Geometric properties [8 hrs] Part B: The origin of rocks and nature, Geological origin of soil its Geometric properties [12 hrs] Part C: River Geology, Structural Geology and Maps [21 hrs]. Part D: Geological investigations for building materials and roads Construction, [3 hrs] Part E: Geotechnical investigations for Geometric buildings positions [3 hrs]

Learning and Teaching Strategies		
استراتيجيات التعلم والتعليم		
	1) Learning Technologies on Campus using data show or TV	
	screen.	
Strategies	2) White board.	
	3) Hand out lecture notes.	
	4) Hand out some kinds of pictures related to specific topics.	

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	42	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	2.8	
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	75			

Module Evaluation تقييم المادة الدراسية Relevant Learning Time/Nu Weight (Marks) Week Due mber Outcome Quizzes 15% (15) 5,8 2 LO # 2, 3,4 and 6, 7 LO # 3, 4, 5 and 9, 2 **Formative Assignments** 10% (10) 6, 12 10 and 11 assessment 10% (10) Projects / Lab. 1 Continuous Report 5% (5) 1 13 Continuous Midterm 10% (10) 10 LO # 1-9 **Summative** 2 hr Exam assessment 50% (50) **Final Exam** 3hr 16 or 17 All 100% (100 Marks) **Total assessment**

	Delivery Plan (Weekly Syllabus)		
	المنهاج الاسبوعي النظري		
	Material Covered		
Week 1	Welcome to this course, syllabus, and expectations. Textbook. Distribution of data, tabular presentation of data.		
Week 2	Learning the students the basic of geology		
Week 3	Understanding the minerals, Igneous Rocks, Sedimentary Rocks And etamorphic Rocks.		
Week 4	Physical Properties of Rock		
Week 5	Physical Properties of Rock		
Week 6	Joints & Folds		
Week 7	Faults		
Week 8	Earthquakes		
Week 9	Denudation		
Week 10	Underground Water		
Week 11	Water Geology		
Week 12	Geological investigations for building materials and roads Construction		
Week 13	Geological and Geotechnical investigations for Geometric buildings positions		
Week 14	Geophysical methods in civil Engineering, General preview and different examples		
Week 15	Geophysical methods in civil Engineering, General preview and different examples		
Week 16	Preparatory week before the final Exam		

Delivery Plan (Weekly Lab. Syllabus)		
المنهاج الاسبوعي للمختبر		
	Material Covered	
Week 1	Non	
Week 2		
Week 3		
Week 4		
Week 5		
Week 6		
Week 7		
Week 8	Mid-term Exam	
Week 9		
Week 10		
Week 11		
Week 12		
Week 13		
Week 14		
Week 15		
Week 16		

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	- Engineering Geology by Basim Rassady, Baghdad University, 1991.	No
Recommended Texts	- Engineering Geology, by F. G. Bell, USA, 2007 A Geology for Engineers, by F.G.H. Blyth and M. H. de Freitas, 2005	No
Websites		

Grading Scheme مخطط الدرجات				
Group	Grade	التقدير	Marks (%)	Definition
	A - Excellent	امتياز	90 - 100	Outstanding Performance
Success	B - Very Good	جيد جدا	80 - 89	Above average with some errors
Group	C - Good	ختر	70 - 79	Sound work with notable errors
(50 - 100)	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
(0-49)	F – Fail	راسب	(0-44)	Considerable amount of work required

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية						
Module Title	Engineering Mechanics		cs II	Mod	ule Delivery	
Module Type	Core				□ Theory ☑ Lecture	
Module Code	QCE0022				□ Lab	
ECTS Credits		6			☐ Tutorial ☐ Practical	
SWL (hr/sem)	150				☐ Seminar	
Module Level	Level		Semester	of Delivery		
Administering I	Department	CIVIL	College	Engineering		
Module Leader	Wissam Nadir Najim		e-mail	wissan	n.nadir@wrec.u	oqasim.edu.iq
Module Leader's Acad. Title		Assistant Professor	Module L	eader's	ader's Qualification Ph.D.	
Module Tutor	None		e-mail	None		:
Peer Reviewer Name None		None	e-mail		None	
Scientific Committee Approval Date		01/06/2023	Version Number		1.0	

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	QCE0012	Semester	One
Co-requisites module	None	Semester	None

Modulo	e Aims, Learning Outcomes and Indicative Contents أهداف المادة الدر اسية ونتائج التعلم والمحتويات الإرشادية
Module Aims أهداف المادة الدر اسية	 Engineering Mechanics courses teach students about the applications of mechanics to solve problems involving typical engineering elements. Engineering Mechanics courses cover several topics such as Center of Gravity, Centroid of Areas, Center of Pressure, Moment of Inertia, Kinematics-Absolute Motion. Engineering Mechanics courses are offered at several levels, including undergraduate, postgraduate, and diploma programs.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	 After successful completion of this module, students should be able to: Illustrate the different types of mechanics problems and issues that can arise in civil engineering; Explain and apply correctly the fundamental principles of mechanics; Solve problems in statics way such that solutions can be communicated for verification; Model basic static and dynamic systems relevant to structural, geotechnical and fluid mechanics and be proficient in applying appropriate analysis methods.
Indicative Contents المحتويات الإرشادية	Indicative content includes the following: Part A: Center of Gravity [8 hrs] Part B: Centroid of Areas [12 hrs] Part C: Center of Pressure [21 hrs]. Part D: Moment of Inertia [3 hrs] Part E: Kinematics-Absolute Motion [3 hrs]

Learning and Teaching Strategies		
استراتيجيات التعلم والتعليم		
	1) Learning Technologies on Campus using data show or TV	
	screen.	
Strategies	2) White board.	
	3) Hand out lecture notes.	
	4) Hand out some kinds of pictures related to specific topics.	

Student Workload (SWL)

الحمل الدراسي للطالب					
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	57	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	3		
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	93	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	3.466		
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	150				

	Module Evaluation تقییم المادة الدر اسیة						
	Time/Nu mber Weight (Marks) Week Due Outcome						
	Quizzes	2	15% (15)	5,8	LO # 2, 3,4 and 6, 7		
Formative assessment	Assignments	2	10% (10)	6, 12	LO # 3, 4, 5 and 9, 10 and 11		
assessment	Projects / Lab.	1	10% (10)	Continuous			
	Report	1	5% (5)	13	Continuous		
Summative assessment	Midterm Exam	2 hr	10% (10)	10	LO # 1-9		
ussessment	Final Exam	3hr	50% (50)	16 or 17	All		
Total assessm	ient		100% (100 Marks)				

	Delivery Plan (Weekly Syllabus)			
	المنهاج الاسبوعي النظري			
	Material Covered			
Week 1	Welcome to this course, syllabus, and expectations. Textbook. Distribution of data, tabular presentation of data.			
Week 2	Analysis and determination of reaction and internal forces in the structure using equilibrium equations.			
Week 3	Analysis and determination the reactions, internal forces in truss.			
Week 4	Determine the forces in trusses types using joint method.			
Week 5	Determine the forces in trusses types using section method			
Week 6	Determine the location of the center of gravity, center of mass and centroid for a system of discrete particles and a body of arbitrary shape			
Week 7	Determine the location of the center of gravity, center of mass and centroid for a system of discrete particles and a body of arbitrary shape			

Week 8	Determine the location of the centroid arbitrary line, area or volume.
Week 9	Determine the location of the centroid arbitrary line, area or volume.
Week 10	Determining the polar moment of inertia for an area, radius of gyration
Week 11	Determining the polar moment of inertia for an area, radius of gyration
Week 12	Determining the moment of inertia for a composite area.
Week 13	Determining the product of inertia of areas. Calculations of the maximum and minimum of inertia for an area
Week 14	Determining the product of inertia of areas. Calculations of the maximum and minimum of inertia for an area
Week 15	Determining the product of inertia of areas. Calculations of the maximum and minimum of inertia for an area
Week 16	Preparatory week before the final Exam

	Delivery Plan (Weekly Lab. Syllabus)				
	المنهاج الاسبوعي للمختبر				
	Material Covered				
Week 1	None				
Week 2					
Week 3					
Week 4					
Week 5					
Week 6					
Week 7					
Week 8	Mid-term Exam				
Week 9					
Week 10					
Week 11					
Week 12					
Week 13					
Week 14					
Week 15					
Week 16					

	Learning and Teaching Resources مصادر التعلم والتدريس	
	Text	Available in the Library?
Required Texts	 Higdon, A. and Stiles, W. B. "Engineering Mechanics", 3rd Ed., Prentice- Hall India,1974. - Hibbeler, R. C. and Fan, S. C., "Engineering Mechanics", Prentice Hall, 1997. 	Yes
Recommended Texts	- Meriam, J. L. and Kraige, L. G. "Engineering Mechanics", 5th Ed., John Wiley and Sons Inc., 2002	No
Websites		

	Grading Scheme مخطط الدر جات					
Group	Grade	التقدير	Marks (%)	Definition		
	A - Excellent	امتياز	90 - 100	Outstanding Performance		
Success	B - Very Good	جيد جدا	80 - 89	Above average with some errors		
Group	C - Good	ボナ	70 - 79	Sound work with notable errors		
(50 - 100)	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		

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية						
Module Title	Eng	gineering Statisti	cs	Mod	ule Delivery	
Module Type		Basic			☐ Theory	
Module Code		QCE0025			☑ Lecture □ Lab	
ECTS Credits		4			□ Tutorial	
SWL (hr/sem)		100		☐ Practical ☐ Seminar		
Module Level			Semester of Delivery			
Administering I	Department	CIVIL	College	Engineering		
Module Leader	Sabreen Lateef Kareem		e-mail	sabreer .edu.iq	nl.kareem@wre	c.uoqasim
Module Leader	's Acad. Title	Lecture	Module Leader's Qualification Ph.D.		Ph.D.	
Module Tutor		None	e-mail	None		
Peer Reviewer Name None		None	e-mail		None	
Scientific Committee Approval Date		01/06/2023	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 الدر اسية	 The objectives of these courses are to introduce Engineering Statistic to civil engineering Undergraduate students and to familiarize the students with statistic terminology Concepts commonly encountered in engineering practices and applications
Module Learning Outcomes	 After successful completion of this module, students should be able to: The ability to use of probability theory and probability distributions in predicting the results of engineering tests. Ability to use a software, such as MS Excel, in the calculations
Indicative Contents المحتويات الإرشادية	Indicative content includes the following: Part A: Statistical notations Fundamentals, Frequency and Probability distributions, [8 hrs] Part B: Measures of Central location [12 hrs] Part C: Measures of Variation or dispersion [21 hrs]. Part D: Measures of Dispersion, Probability theory, [3 hrs] Part E: Elementary probability theory, Special distributions, Sampling Methods [3 hrs]

Learning and Teaching Strategies				
	استر اتيجيات التعلم والتعليم			
	1) Learning Technologies on Campus using data show or TV			
	screen.			
Strategies	2) White board.			
	3) Hand out lecture notes.			
	4) Hand out some kinds of pictures related to specific topics.			

Student Workload (SWL) الحمل الدراسي للطالب					
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	52	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	3.466		
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	100				

Module Evaluation تقييم المادة الدراسية Relevant Learning Time/Nu Weight (Marks) **Week Due** mber Outcome LO # 2, 3,4 and 6, 7 15% (15) 5,8 2 Quizzes LO # 3, 4, 5 and 9, 10% (10) **Formative Assignments** 2 6, 12 10 and 11 assessment Projects / Lab. 10% (10) 1 Continuous Report 5% (5) 13 Continuous 1 Midterm 10% (10) **Summative** 2 hr 10 LO # 1-9 Exam assessment 50% (50) 16 or 17 **Final Exam** 3hr All 100% (100 Marks) **Total assessment**

	Delivery Plan (Weekly Syllabus)						
	المنهاج الاسبوعي النظري						
	Material Covered						
Week 1	Welcome to this course, syllabus, and expectations. Textbook. Distribution of data, tabular presentation of data.						
Week 2	Definition of engineering statistics, statistical concepts, and types of variables. Distribution of data, tabular presentation of data.						
Week 3	Frequency distribution, cumulative frequency distribution, and relative frequency distribution. Engineering presentation of data, the histogram frequency, polygon ascending and descending frequency curve.						
Week 4	Measures of central tendency, arithmetic mean, harmonic mean, geometric mean, root mean squares, the medium, the mode, and mid-range. Quartiles, deciles, and percentiles.						
Week 5	measures of dispersion (variance), absolute measures of variance, the range, the mean deviation, standard deviation, the variance, relative measures of variance standard class, coefficient of mean deviation, coefficient of variance, and standard error. Measures of shape of distribution such as measure of skewness, and measure of kurtosis.						
Week 6	Probability theory, Venn diagram, conditional probability, probability distribution, and permutations and combinations.						
Week 7	Special probability distributions, discrete probability distributions such as binomial distribution, multinomial distribution, Poisson distribution, and hyper geometric distribution. Continuous probability distributions such as normal distribution.						
Week 8	Sampling theory, random sample, systematic sample, multi stage sample, and sample distribution theorems.						
Week 9	Correlation and regression, linear correlation, partial correlation, simple linear regression, and multiple linear regression.						
Week 10	Forecasting and forecasting errors.						

Week 11	Estimation theory, point or interval estimation, confidence limits in estimation and limits for
	means.
Week 12	Statistical decision theory, test of hypothesis and significance, and statistical errors.
Week 13	Time series analysis, smoothing techniques, parametric techniques,
Week 14	Time series analysis, smoothing techniques, parametric techniques,
Week 15	Time series analysis, smoothing techniques, parametric techniques,
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus)						
المنهاج الاسبوعي للمختبر						
	Material Covered					
Week 1	Non					
Week 2						
Week 3						
Week 4						
Week 5						
Week 6						
Week 7						
Week 8	Mid-term Exam					
Week 9						
Week 10						
Week 11						
Week 12						
Week 13						
Week 14						
Week 15						
Week 16						

Learning and Teaching Resources مصادر التعلم والتدريس						
Text Available in Library?						
Required Texts	مباديء الاحصاء والاحتمالات للعلوم الادارة والتطبيقية) د. محمد محمد المزاح - جامعة العلوم والتكنولوجًا-صنعاء- الطبعة الثالث ة-	Yes				
Recommended Texts	- Jim Morrison, 2001, Statistics for Engineers: An Introduction, Wily and sons	No				
Websites						

Grading Scheme مخطط الدرجات							
Group Grade		التقدير (%) التقدير		Definition			
	A - Excellent	امتياز	90 - 100	Outstanding Performance			
Success	B - Very Good	جید جدا	80 - 89	Above average with some errors			
Group	C - Good	ختر	70 - 79	Sound work with notable errors			
(50 - 100)	- 100) D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings			
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria			
Fail Group	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded			
(0 – 49)	F – Fail	راسب	(0-44)	Considerable amount of work required			

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية						
Module Title	E		Mod	ule Delivery		
Module Type		Basic			□ Theory ☑ Lecture	
Module Code		QCE0027			□ Lab	
ECTS Credits		2			☐ Tutorial ☐ Practical	
SWL (hr/sem)		50			☐ Seminar	
Module Level			Semester of Delivery			
Administering I	Department	CIVIL	College	Engineering		
Module Leader Abdullah Mu		sa Kadhim	e-mail	<u>abdulla</u>	h@wrec.uoqas	im.edu.iq
Module Leader's Acad. Title		Lecture	Module Leader's Qualification I		Ph.D.	
Module Tutor		None e-mail		None		
Peer Reviewer Name		None	e-mail	None		;
Scientific Committee Approval Date		01/06/2023	Version Number		1.0	

Relation with other Modules								
	العلاقة مع المواد الدراسية الأخرى							
Prerequisite module	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 الدر اسية	Learning varying technical English vocabulary for different topics in the scope of civil engineering, in addition to tenses, affixes, and English abbreviations				
Module Learning Outcomes	• After successful completion of this module, students should be able to: Dealing with technical vocabularies in other courses				
مخرجات التعلم للمادة الدراسية	materials				
Indicative Contents المحتويات الإرشادية	Indicative content includes the following: Part A: Line and trigonometric function, Domain and range, [8 hrs] Part B: Limits and compositions of functions. Continuous functions an				

Learning and Teaching Strategies					
	استر أتيجيات التعلم والتعليم				
	1) Learning Technologies on Campus using data show or TV				
	screen.				
Strategies	2) White board.				
	3) Hand out lecture notes.				
	4) Hand out some kinds of pictures related to specific topics.				

Student Workload (SWL) الحمل الدراسي للطالب					
Structured SWL (h/sem) Structured SWL (h/w) الحمل الدر اسي المنتظم للطالب أسبو عيا الحمل الدر اسي المنتظم للطالب خلال الفصل					
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	17	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	1.13		
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	50				

Module Evaluation						
تقييم المادة الدراسية						
Time/Nu Weight (Marks) Week Due Relevant Learning						

		mber			Outcome
	Quizzes	2	15% (15)	5,8	LO # 2, 3,4 and 6, 7
Formative	Assignments	2	10% (10)	6, 12	LO # 3, 4, 5 and 9,
assessment				- ,	10 and 11
assessment	Projects / Lab.	1	10% (10)	Continuous	
	Report	1	5% (5)	13	Continuous
Summative assessment	Midterm Exam	2 hr	10% (10)	10	LO # 1-9
assessment	Final Exam	3hr	50% (50)	16 or 17	All
Total assessment			100% (100 Marks)		

	Delivery Plan (Weekly Syllabus)		
	المنهاج الاسبوعي النظري		
	Material Covered		
Week 1	Welcome to this course, syllabus, and expectations. Textbook. Distribution of data, tabular presentation of data.		
Week 2	Indicate the importance and significance of studying English language		
Week 3	Knowing and using every day English greetings and short conversations		
Week 4	Knowing and using every day English greetings and short conversations		
Week 5	Knowing the primary rules for grammar and other topics of every day English such parts of speech, tenses, conjunctions in English.		
Week 6	Knowing the primary rules for grammar and other topics of every day English such parts of speech, tenses, conjunctions in English.		
Week 7	Learning the use of numbers and mathematical equations in correct English language		
Week 8	Learning the use of numbers and mathematical equations in correct English language		
Week 9	Speak and write some technical English engineering vocabularies in the scope of civil engineering		
Week 10	Speak and write some technical English engineering vocabularies in the scope of civil engineering		
Week 11	Speak and write some technical English engineering vocabularies in the scope of civil engineering		
Week 12	Derivate or convert nouns, verbs, adjectives and adverbs by using appropriate suffixes or prefixes.		
Week 13	Derivate or convert nouns, verbs, adjectives and adverbs by using appropriate suffixes or prefixes.		
Week 14	Derivate or convert nouns, verbs, adjectives and adverbs by using appropriate suffixes or prefixes.		
Week 15	Using abbreviations in English.		
Week 16	Preparatory week before the final Exam		

Text Library? - New headway plus student's book (By John and	Delivery Plan (Weekly Lab. Syllabus)						
Week 1 Nonc Week 2 Week 3 Weck 4 Week 5 Week 6 Week 7 Week 8 Mid-term Exam Week 9 Week 10 Week 11 Week 12 Weck 13 Week 14 Week 15 Weck 16 Learning and Teaching Resources مصادر التعلم والتدريس Text Available in the Library? - New headway plus student's book (By John and	المنهاج الاسبوعي للمختبر						
Week 2 Week 3 Week 4 Week 5 Week 6 Week 7 Week 8 Mid-term Exam Week 9 Week 10 Week 11 Week 12 Week 13 Week 14 Week 15 Week 16 Learning and Teaching Resources مصادر التعلم والتدريس Text Available in the Library? - New headway plus student's book (By John and		Material	Covered				
Week 3 Week 4 Week 5 Week 6 Week 7 Week 8 Mid-term Exam Week 9 Week 10 Week 11 Week 12 Week 12 Week 13 Week 14 Week 15 Week 16 Learning and Teaching Resources مصادر التعلم والتدريس Text Available in the Library? - New headway plus student's book (By John and	Week 1	None					
Week 5 Week 6 Week 7 Week 8 Mid-term Exam Week 9 Week 10 Week 11 Week 12 Week 13 Week 14 Week 15 Week 16 Learning and Teaching Resources مصادر التعلم والتدريس Text Available in the Library? - New headway plus student's book (By John and	Week 2						
Week 5 Week 6 Week 7 Week 8 Mid-term Exam Week 9 Week 10 Week 11 Week 12 Week 13 Week 14 Week 15 Week 16 Learning and Teaching Resources مصادر التعلم والتدريس Text Available in the Library? - New headway plus student's book (By John and	Week 3						
Week 6 Week 7 Week 8 Mid-term Exam Week 9 Week 10 Week 11 Week 12 Week 13 Week 14 Week 15 Week 16 Learning and Teaching Resources مصادر التعلم والتدريس Text Available in the Library? - New headway plus student's book (By John and	Week 4						
Week 8 Mid-term Exam Week 9 Week 10 Week 11 Week 12 Week 13 Week 14 Week 15 Week 16 Learning and Teaching Resources مصادر التعلم والتدريس Text Available in the Library? - New headway plus student's book (By John and	Week 5						
Week 8 Week 9 Week 10 Week 11 Week 12 Week 13 Week 14 Week 15 Week 16 Learning and Teaching Resources مصادر التعلم والتدريس Text Available in the Library? - New headway plus student's book (By John and	Week 6						
Week 10 Week 11 Week 12 Week 13 Week 14 Week 15 Week 16 Learning and Teaching Resources مصادر التعلم والتدريس Text Available in the Library? - New headway plus student's book (By John and	Week 7						
Week 10 Week 11 Week 12 Week 13 Week 14 Week 15 Week 16 Learning and Teaching Resources مصادر التعلم والتدريس Text Available in the Library? - New headway plus student's book (By John and	Week 8	Mid-term	Exam				
Week 12 Week 13 Week 14 Week 15 Week 16 Learning and Teaching Resources مصادر التعلم والتدريس Text Available in the Library? - New headway plus student's book (By John and	Week 9						
Week 13 Week 14 Week 15 Week 16 Learning and Teaching Resources مصادر التعلم والتدريس Text Available in the Library? - New headway plus student's book (By John and	Week 10						
Week 14 Week 15 Week 16 Learning and Teaching Resources مصادر التعلم والتدريس Text Available in the Library? - New headway plus student's book (By John and	Week 11						
Week 15 Week 16 Learning and Teaching Resources مصادر التعلم والتدريس Text Available in the Library? - New headway plus student's book (By John and	Week 12						
Week 15 Week 16 Learning and Teaching Resources مصادر التعلم والتدريس Text Available in the Library? - New headway plus student's book (By John and	Week 13						
Week 16 Learning and Teaching Resources مصادر التعلم والتدريس Text Available in the Library? - New headway plus student's book (By John and	Week 14						
Learning and Teaching Resources مصادر التعلم والتدريس Available in the Library? - New headway plus student's book (By John and	Week 15						
مصادر التعلم والتدريس Text Available in the Library? - New headway plus student's book (By John and	Week 16						
Text Available in the Library? - New headway plus student's book (By John and			Learning and Teaching Resources				
Text Library? - New headway plus student's book (By John and		مصادر التعلم والتدريس					
			Text	Available in the Library?			
Required Texts Liz Soars) - Technical English-Civil Engineering - (By Markner Gager, 1st edition 2013.) Recommended	Required Texts		Liz Soars) - Technical English-Civil Engineering	No			

Grading Scheme مخطط الدرجات				
Group	Grade	التقدير	Marks (%)	Definition
Success	A - Excellent	امتياز	90 - 100	Outstanding Performance

English in a simplified way (By Tahir Al-Bayaty, 3rd edition 1984).

No

Recommended

Texts
Websites

Group (50 - 100)	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	ختر	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	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
(0-49)	F – Fail	ر اسب	(0-44)	Considerable amount of work required

نموذج وصف المادة الدراسية

Module Information معلو مات المادة الدر اسية						
Module Title			Mod	ule Delivery		
Module Type	Support				□ Theory ☑ Lecture	
Module Code		QCE0021			□ Lab	
ECTS Credits		6			☐ Tutorial☐ Practical	
SWL (hr/sem)	150				☐ Seminar	
Module Level			Semester of Delivery			
Administering I	Department	CIVIL	College	Engineering		
Module Leader	Abdullah Musa Kadhim		e-mail	abdulla	h@wrec.uoqas	im.edu.iq
Module Leader's Acad. Title		Lecture	Lecture Module Le		eader's Qualification Ph.D.	
Module Tutor		None	e-mail		None	;
Peer Reviewer Name		None	e-mail	None		;
Scientific Committee Approval Date		01/06/2023	Version Number	1.0		

Relation with other Modules					
	العلاقة مع المواد الدراسية الأخرى				
Prerequisite module	QCE0011	Semester	One		
Co-requisites module	None	Semester	None		

Module	e Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية
Module Aims أهداف المادة الدراسية	 The aim of this course is for students to learn to draw basic functions and how to derive them. Benefit from derivation in solving engineering applications, Benefit from integration in solving many engineering applications such as Area Between Curves, Volume of Solids of Revolution, Length of Plane Curves, Area of Surface of Revolution. In addition, learn to calculate conic sections.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	 After successful completion of this module, students should be able to: Ability to learn to graph basic functions. Ability to use calculus, in solving engineering applications. Mastery of mathematics to relate it to the stereoscopic geometry of a purpose the answer in descriptive engineering Ability to work as a team.
Indicative Contents المحتويات الإرشادية	Indicative content includes the following: Part A: Integration,[8 hrs] Part B: Area under the curve, [12 hrs] Part C: Trapezoidal and Simpsons rule, Volumes, Surface area,[21 hrs]. Part D: Natural logarithm functions, Exponential functions, [3 hrs] Part E: Methods of integration, Improper integral. [3 hrs]

Learning and Teaching Strategies		
استراتيجيات التعلم والتعليم		
	1) Learning Technologies on Campus using data show or TV	
	screen.	
Strategies	2) White board.	
	3) Hand out lecture notes.	
	4) Hand out some kinds of pictures related to specific topics.	

Student Workload (SWL) الحمل الدراسي للطالب				
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	57	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	3	
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	93	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	3.466	
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	150			

Module Evaluation تقييم المادة الدر اسية						
		Time/Nu mber	Weight (Marks)	Week Due	Relevant Learning Outcome	
	Quizzes	2	15% (15)	5,8	LO # 2, 3,4 and 6, 7	
Formative	Assignments	2	10% (10)	6, 12	LO # 3, 4 , 5 and 9, 10 and 11	
assessment	Projects / Lab.	1	10% (10)	Continuous		
	Report	1	5% (5)	13	Continuous	
Summative assessment	Midterm Exam	2 hr	10% (10)	10	LO # 1-9	
	Final Exam	3hr	50% (50)	16 or 17	All	
Total assessment			100% (100 Marks)			

	Delivery Plan (Weekly Syllabus)				
	المنهاج الاسبوعي النظري				
	Material Covered				
Week 1	Welcome to this course, syllabus, and expectations. Textbook. Distribution of data, tabular presentation of data.				
Week 2	Indefinite Integrals and Definite Integrals				
Week 3	Integral of Transcendental Functions.				
Week 4	Length of Plane Curves and Area of Surface of Revolution				
Week 5	Integration by Parts and Integration by Trigonometric Substitutions.				
Week 6	Integration by Parts and Integration by Trigonometric Substitutions.				
Week 7	Integration of Rational Function by Partial Fractions and Integrating of the Roots.				

Week 8	Integration of Rational Function by Partial Fractions and Integrating of the Roots.
Week 9	Calculate Conic Sections
Week 10	Calculate Conic Sections
Week 11	Integration of Rational Function by Partial Fractions and Integrating of the Roots.
Week 12	Related rates changes, Extreme Values of Functions
Week 13	Differentiation Rules and Derivatives of Trigonometric Functions
Week 14	Differentiation Rules and Derivatives of Trigonometric Functions
Week 15	Integration of Rational Function by Partial Fractions and Integrating of the Roots.
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus)						
المنهاج الاسبوعي للمختبر						
	Material Covered					
Week 1	None					
Week 2						
Week 3						
Week 4						
Week 5						
Week 6						
Week 7						
Week 8	Mid-term Exam					
Week 9						
Week 10						
Week 11						
Week 12						
Week 13						
Week 14						
Week 15						
Week 16						

Learning and Teaching Resources							
مصادر التعلم والتدريس							
	Text	Available in the Library?					
Required Texts	 Finney, Weir, C.W. and Giordano, "Tomas Calculus", eleven teen Edition, 2000. Finney, Weir, C.W. and Giordano, "Tomas Calculus", fourteenth Edition, 2017 	Yes					
Recommended Texts	 - Haward, Bivens and Davis., "Calculus ", Pearson Education, Seven Edition, 2002. - James Stewart, "Calculus ", fifth Edition, 2020 	No					
Websites							

Grading Scheme مخطط الدر جات							
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(0 – 49)	F – Fail	راسب	(0-44)	Considerable amount of work required			