# نموذج وصف المادة الدراسية

Module Information معلومات المادة الدر اسية						
<b>Module Title</b>	Co	ncrete Technology M		Mod	ule Delivery	
Module Type	Core				□ Theory ☑ Lecture	
<b>Module Code</b>		QCE0035			⊠ Lab	
<b>ECTS Credits</b>	5				☐ Tutorial ☐ Practical ☐ Seminar	
SWL (hr/sem)	125					
Module Level			Semester of Delivery			
Administering I	Department	CIVIL	College	Engineering		
Module Leader	Iman kattoof	harith	e-mail eman1988@wrec.ue		988@wrec.uoqa	asim.edu.iq
Module Leader's Acad. Title		Assets Professor	Module Leader's Qualification Ph.D.		Ph.D.	
<b>Module Tutor</b>		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	Study and comprehend the general concepts of the physical and chemical composition of structural materials used in civil engineering works
Module Learning Outcomes	<ul> <li>After successful completion of this module, students should be able to:</li> <li>The student learns about the quality of construction materials</li> <li>The student learns about the physical and chemical composition of structural materials.</li> </ul>
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 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)         5           الحمل الدر اسي المنتظم للطالب أسبو عيا         الحمل الدر اسي المنتظم للطالب أسبو عيا         5					
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	62	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	4.13		
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	125				

#### **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	Initial and Final Setting Time of Cement Paste				
Week 4	Soundness of Cement				
Week 5	Compressive Strength of Cement				
Week 6	Fineness of Cement				
Week 7	Consistency of Cement Paste				
Week 8	Mid-term Exam				
Week 9	Sieve Analysis of Coarse Aggregate				
Week 10	Specific Gravity and Absorption				
Week 11	Density				
Week 12	Shape and Surface Texture				
Week 13	Sieve Analysis of Fine Aggregate				
Week 14	Conduct tests on Cement				
Week 15	Slump Test				
Week 16	Compacting Factor				

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

	Recommended <b>Fexts</b>	<ul> <li>Building Materials in Civil Engineering: H. Zhang, Second Edition, Woodheed Publishing, 2010.</li> <li>BS Specifications</li> </ul>	No
1	Websites		

Grading Scheme مخطط الدر جات						
Group	Grade	التقدير	Marks (%)	Definition		
	A - Excellent	امتياز	90 - 100	Outstanding Performance		
Success	<b>B</b> - Very Good	ا جيد جدا 80 - 89 Above average v		Above average with some errors		
Group	C - Good	ختر	70 - 79	Sound work with notable errors		
(50 - 100)	<b>D</b> - 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 الدر اسية						
<b>Module Title</b>	Engi	neering Surveyin	ering Surveying I Modu		ule Delivery	
Module Type	Core				□ Theory ☑ Lecture	
<b>Module Code</b>		QCE0033			□ Lab	
<b>ECTS Credits</b>		6			☐ Tutorial☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	
SWL (hr/sem)	150				□ Seminar	
<b>Module Level</b>			Semester of Delivery			
Administering I	Department	CIVIL	College	Engineering		
Module Leader	Aysar Jameel	Abdalkadhum	e-mail Ay		Aysar@wrec.uoqasim.edu.iq	
Module Leader	's Acad. Title	Assets Professor	Module Leader's Qualification Ph.D.		Ph.D.	
<b>Module Tutor</b>		None	e-mail None		;	
Peer Reviewer Name		None	e-mail	-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	This course aims to introduce and develop the basic understanding of the principles of engineering surveying
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<ul> <li>After successful completion of this module, students should be able to:</li> <li>An ability to apply knowledge of engineering surveying, science and engineering</li> <li>An ability to design and conduct experiments, as well as to analyze and interpret data</li> <li>An ability to identify, formulate, and solve engineering problems.</li> </ul>
Indicative Contents المحتويات الإرشادية	Indicative content includes the following:  Part A: Introduction, [8 hrs]  Part B: Measurement distance by tape [12 hrs]  Part C: Leveling [ 21 hrs].  Part D: Sections [3 hrs]  Part E: Directions. [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 اسي 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	72	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	4.8			
Total SWL (h/sem)         150						

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 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 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	Units-rounding off numbers-scale-significant figures-Setting out straight-line using tape only				
Week 3	Error sources-Precision- Accuracy-Redundant measurements-Setting out angle by tape only				
Week 4	random errors- probability normal distribution-mean and weighted mean weights- balance adjustment- Setting out a map by tape only				
Week 5	level types-refraction and curvature errors- Measure angle by tape only				
Week 6	Leveling methods adjustment leveling network- Tachometry method				
Week 7	Distance measurement methods-taping- Two pegs test				
Week 8	EDM- Differential Leveling				
Week 9	Angle, Azimuth, and Bearing				
Week 10	Angle measurement				
Week 11	Angle measurements and distance measurements				
Week 12	Profile cross section contour map				
Week 13	Regular area- irregular area cross sections				
Week 14	Volume computation-mass haul diagram				
Week 15	Revision class				
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 Library					
Required Texts	- Ghilani, C. D. and P. R. WOLF (2014). Elementary Surveying: An Introduction to Geomatics. New Jersey/ The United State of America, PEARSON.	No			
Recommended Texts	Nadolinets, L., et al. (2017). Surveying Instruments and Technology. New York, Taylor & Francis.	No			
Websites					

Grading Scheme مخطط الدرجات				
Group	Grade	التقدير	Marks (%)	Definition

	A - Excellent	امتياز	90 - 100	Outstanding Performance
Success	<b>B</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)	<b>D</b> - 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)	More work required but cr على السب (قيد المعا awarded	
	F – Fail	راسب	(0-44)	Considerable amount of work required

# نموذج وصف المادة الدراسية

Module Information معلو مات المادة الدر اسية							
<b>Module Title</b>	Fluid Mechanics I			Module Delivery			
Module Type			□ Theory ☑ Lecture				
<b>Module Code</b>		QCE0034		⊠ Lab			
<b>ECTS Credits</b>		6			☐		
SWL (hr/sem)			□ Seminar				
Module Level			Semester of Delivery				
Administering I	Department	CIVIL	College	Engineering			
Module Leader	Ammar Ali Abd		e-mail	ammarali@wrec.uoqasim.edu.iq		sim.edu.iq	
Module Leader	's Acad. Title	Lecture	<b>Module Leader's Qualification</b>		Ph.D.		
<b>Module Tutor</b>	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	<ul> <li>The course will introduce fluid mechanics and establish its relevance in civil engineering.</li> <li>Recognition of and develop the knowledge about the fundamental hydraulic definitions and the</li> <li>principle fluid properties underlying the subject.</li> <li>Establish how these definitions and properties are utilized to solve the elementary hydrostatical and</li> <li>hydro dynamical problems that may face the civil engineer.</li> </ul>
Module Learning Outcomes  مخرجات التعلم للمادة الدراسية	<ul> <li>After successful completion of this module, students should be able to:</li> <li>Ability to apply knowledge of mathematics, science and engineering</li> <li>An ability to design and conduct experiments, as well as to analyze and interpret data</li> <li>An ability to identify, formulate, and solve engineering problems.</li> </ul>
Indicative Contents المحتويات الإرشادية	Indicative content includes the following:  Part A: Fluid Properties [8 hrs]  Part B: Fluid Static [12 hrs]  Part C: Hydrostatic Force on Immersed Plane Surfaces [21 hrs].  Part D: , Dimensional Analysis [3 hrs]  Part E: Momentum Equation. [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	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	4.8	
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	150			

#### **Module Evaluation** تقييم المادة الدراسية Time/Nu Relevant Learning 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	Support and describe a fine define of the fluid, fluid mechanics, dimensions and units related with its study and comprehend its relevance to civil engineering.		
Week 3	Fluid Static(Fluid Pressure and its Measurement Methods,		
Week 4	Hydrostatic Force on Immersed Plane Surfaces, Hydrostatic Force on Immersed Curved Surfaces.		
Week 5	Relative Equilibrium Linear Acceleration		
Week 6	Uniform Rotation about a Vertical Axis		
Week 7	Dimensional Analysis		
Week 8	Dynamic Similitude		
Week 9	Kinematics of Fluid Flow (Flow Types)		
Week 10	Continuity Equation		
Week 11	Energy Equation		
Week 12	Momentum Equation		
Week 13	Calculate forces and moments for jets, vanes, nozzles and pipe sections.		
Week 14	How can measure flow rate by wieres and flumes		
Week 15	How can measure flow rate by wieres and flumes		
Week 16	Preparatory week before the final Exam		

	Delivery Plan (Weekly Lab. Syllabus)		
	المنهاج الاسبوعي للمختبر		
	Material Covered		
Week 1	DENSITY AND SPECIFIC GRAVITY		
Week 2	VISCOSITY		
Week 3	SURFACE TENSION		
Week 4	CAPILLARITY		
Week 5	CENTER OF PRESSURE		
Week 6	FLOW THROUGH A CIRCULAR ORIFICE		
Week 7	TRAJECTORY OF A HORIZONTAL JET		
Week 8	Mid-term Exam		
Week 9	TIME TO EMPTY A VESSEL		
Week 10	IMPACT OF JETS		
Week 11	VERIFICATION OF BERNOULLI'S EQUATION		
Week 12	DEMONSTRATION OF LAMINAR AND TURBULENT FLOW		
Week 13	PIPE FLOW MEASUREMENT (FLOW THROUGH VENTURI TUBE)		
Week 14	FRICTION LOSSES IN PIPES.		
Week 15	MINOR LOSSES IN PIPES		
Week 16	MINOR LOSSES IN PIPES		

Learning and Teaching Resources مصادر التعلم والتدريس			
	Text	Available in the Library?	
Required Texts	- <i>Engineering Fluid Mechanics</i> , Crowe, C. T., D. F. Elger, B. C.Williams and J. A. Roberson, John Wiley & Sons, New York, 2010	No	
Recommended Texts	Elementary Fluid Mechanics, Vennard, J. K., John Wiley & Sons, New York.	No	
Websites			

Grading Scheme مخطط الدر جات				
Group	Grade التقدير Marks (%) Definition		Definition	
	A - Excellent	امتياز	90 - 100	Outstanding Performance
Success	<b>B</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)	<b>D</b> - 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						
<b>Module Title</b>	Mathematics2 I			Mod	ule Delivery	
Module Type	Support				□ Theory ☑ Lecture	
<b>Module Code</b>		QCE0031			□ Lab	
ECTS Credits		٤			☐ Tutorial ☐ Practical	
SWL (hr/sem)	100				☐ Seminar	
<b>Module Level</b>			Semester	of Delivery		
Administering I	Department	CIVIL	College	Engineering		
Module Leader			e-mail			
Module Leader's Acad. Title Ass		Assistant Professor	Module L	eader's	Qualification	Ph.D.
<b>Module Tutor</b>	<b>Iodule Tutor</b> 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	QCE0021	Semester	Two
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	<ul> <li>The aim of this course is for students to learn to draw basic functions and how to derive them.</li> <li>Benefit from derivation in solving engineering applications,</li> <li>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.</li> <li>In addition, learn to calculate conic sections.</li> </ul>		
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<ul> <li>After successful completion of this module, students should be able to:</li> <li>Ability to learn to graph basic functions.</li> <li>Ability to use calculus, in solving engineering applications.</li> <li>Mastery of mathematics to relate it to the stereoscopic geometry of a purpose the answer in descriptive engineering</li> <li>Ability to work as a team.</li> </ul>		
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)         Structured SWL (h/w)         4           الحمل الدر اسي المنتظم للطالب أسبو عيا         الحمل الدر اسي المنتظم للطالب أسبو عيا				
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 الدر اسية						
	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	
	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	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	<ul> <li>Finney, Weir, C.W. and Giordano, "Tomas Calculus", eleven teen Edition, 2000.</li> <li>Finney, Weir, C.W. and Giordano, "Tomas Calculus", fourteenth Edition, 2017</li> </ul>	No		
Recommended Texts	<ul> <li>- Haward, Bivens and Davis., "Calculus ", Pearson Education, Seven Edition, 2002.</li> <li>- James Stewart, "Calculus ", fifth Edition, 2020</li> </ul>	No		
Websites				

Grading Scheme مخطط الدر جات					
Group	Grade	التقدير	Marks (%)	Definition	
	A - Excellent	امتياز	90 - 100	Outstanding Performance	
Success	<b>B</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)	<b>D</b> - 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							
<b>Module Title</b>	St	ructural Drawin	g	Mod	ule Delivery		
Module Type				□ Theory ☑ Lecture			
<b>Module Code</b>		QCE0036			<b>⊠</b> Lab		
<b>ECTS Credits</b>		3			☐ Tutorial ☐ Practical		
SWL (hr/sem)		75			□ Seminar		
<b>Module Level</b>			Semester of Delivery				
Administering I	Department	CIVIL	College	Engineering			
Module Leader	Iman kattoof harith		e-mail	eman19	988@wrec.uoqa	asim.edu.iq	
Module Leader	's Acad. Title	Assistant Professor	Module Leader's Qualification		Ph.D.		
<b>Module Tutor</b>	None		e-mail	None			
Peer Reviewer Name		None	e-mail	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 الدر اسية ونتائج التعلم والمحتويات الإرشادية
Module Aims أهداف المادة الدر اسية	<ul> <li>The student can draw geometric shapes, stereoscopic drawings, and sections, and he can read ready-made engineering drawings.</li> <li>The student will be able to draw geometric shapes using AutoCAD.</li> <li>The student imagines the final shape of the engineering drawing</li> <li>The student will be familiar with the tools of engineering drawing.</li> <li>The student is familiar with drawing geometric shapes (lines, circles, arcs).</li> <li>The student learns applications and exercises in vertical and stereo projection and drawing sections.</li> </ul>
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<ul> <li>After successful completion of this module, students should be able to:</li> <li>The student will be familiar with the AutoCAD interface and its contents.</li> <li>The student will be familiar with the methods of drawing lines and geometric shapes using the computer.</li> <li>The student learns how to use drawing aids.</li> <li>The student learns about the modification commands represented by displacement, erasure, transfer, rotation,</li></ul>
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 الدر اسي للطالب	

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	48	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	27	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	1.8
Total SWL (h/sem)  الحمل الدراسي الكلي للطالب خلال الفصل	75		

	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 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	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	<ul> <li>Lectures of manual engineering drawing by Ass. Prof. Dr. Mohmad Abd Muslim.</li> </ul>	Yes			
Recommended Texts	<ul><li>- Fundamentals of 2017 AutoCAD by Ali Mahdi</li><li>- AutoCAD Tutorials by Fangfang.</li></ul>	No			
Websites					

Grading Scheme مخطط الدرجات					
Group	Grade	التقدير	Marks (%)	Definition	
	A - Excellent	امتياز	90 - 100	Outstanding Performance	
Success	<b>B</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)	<b>D</b> - 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 الدر اسية						
<b>Module Title</b>	Strength of Materials I		ls I	Mod	ule Delivery	
<b>Module Type</b>		Core			☐ Theory	
<b>Module Code</b>		QCE0032			☑ Lecture □ Lab	
<b>ECTS Credits</b>		4			☐ Tutorial	
SWL (hr/sem)	100				☐ Practical☐ Seminar	
Module Level			Semester of Delivery			
Administering I	Department	CIVIL	College	Engineering		
Module Leader	Fatimah Hameed Naser		e-mail	fatimal .iq	n_mamoori@wi	ec.uoqasim.edu
Module Leader	's Acad. Title	Assets Professor	Module Leader's Qualification PhD		PhD	
Module Tutor None		e-mail	None		;	
Peer Reviewer N	Name	None	e-mail	None		
Scientific Committee Approval Date  O1/06/2023  Version Number  1.0						

Relation with other Modules				
العلاقة مع المواد الدراسية الأخرى				
Prerequisite module	QCE0021	Semester	Two	
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	The mechanics of materials teaches civil engineering students the basics for calculating the different types of internal stresses (normal and shear) and related deformation occurred in the body due to external effects. This course is needed for all subsequent structural design courses. In general, students get knowledge about all the subjected mentioned within the description of the two courses. The adopted syllabus is the base for the related subjects that the students will get during the third study stage.			
Module Learning Outcomes	After successful completion of this module, students should be able to:  1. An ability to apply knowledge of strength of materials, science and engineering.			
مخرجات التعلم للمادة الدراسية	<ul><li>2. An ability to design and conduct experiments, as well as to analyze and interpret data.</li><li>3. An ability to identify, formulate, and solve engineering problems .</li></ul>			
	Indicative content includes the following:			
	Part A: Fundamentals principles of mechanics and simple stresses [8 hrs]			
<b>Indicative Contents</b>	Part B: Simple strain and deformation of axially loaded members [12 hrs]			
المحتويات الإرشادية	Part C: Torsion [ 21 hrs].			
	Part D: Shear Force and bending moment diagrams [3 hrs]			
	Part E: Shear Force and bending moment diagrams [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 الدر اسي للطالب					
Structured SWL (h/sem)	63	Structured	•		4	
الحمل الدراسي المنتظم للطالب خلال الفصل	03	للطالب أسبوعيا	ل الدراسي المنتظم	الحم	•	
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 Weight (Marks) Week Due Relevant Learning						

		mber			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 assessment		100% (100 Marks)			

Delivery Plan (Weekly Syllabus)			
	المنهاج الاسبوعي النظري		
	Material Covered		
Week 1	Welcome to this course, Textbook. Distribution of data, tabular presentation of data.		
Week 2	Fundamentals principles of mechanics and simple stresses,		
Week 3	Plotting methods of shear and bending moment diagrams are studied according to two methods, equations and graphical methods.		
Week 4	Plotting methods of shear and bending moment diagrams are studied according to two methods, equations and graphical methods.		
Week 5	Plotting methods of shear and bending moment diagrams are studied according to two methods, equations and graphical methods.		
Week 6	The simple strain represented by axial deformations for the determinate or indeterminate systems.		
Week 7	The simple strain represented by axial deformations for the determinate or indeterminate systems.		
Week 8	Simple strain and deformation of axially loaded members		
Week 9	Methods that used to determine the deflection in beams is given herein		
Week 10	Methods that used to determine the deflection in beams is given herein		
Week 11	Torsion		
Week 12	Torsion		
Week 13	Shear Force and bending moment diagrams.		
Week 14	Shear Force and bending moment diagrams.		
Week 15	Shear Force and bending moment diagrams.		
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			
Week 9	Mid-term Exam		
Week 10			
Week 11			
Week 12			
Week 13			
Week 14			
Week 15			
Week 16	Preparatory week before the final Exam		

Learning and Teaching Resources مصادر التعلم والتدريس			
	Text	Available in the Library?	
Required Texts	<ol> <li>Egor Popov, "Introduction to Mechanics of Solids". 1968 by Prentice-Hall,</li> <li>Englewood Cliffs, New Jersey.</li> <li>Singer S., "Strength of Materials" Fourth ed.".</li> </ol>	No	
Recommended Texts	Optional Text: "Gere"Mechanics of material "Hibbler" Mechanics of material	No	
Websites		1	

Grading Scheme مخطط الدرجات					
Group	Grade	التقدير	Marks (%)	Definition	
	A - Excellent	امتياز	90 - 100	Outstanding Performance	
Success	<b>B</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)	<b>D</b> - 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 <b>F</b> – Fail		Considerable amount of work required	



#### "COURSE PORTFOLIO"

Module Information  معلومات المادة الدراسية						
<b>Module Title</b>	T	Technical Writing			Module Delivery	
<b>Module Type</b>	Se	econdary				
<b>Module Code</b>					☐ Lecture	
<b>ECTS Credits</b>	2				— □ Lab □ Tutorial	
SWL (hr/sem)	50	50			☐ Practical ☐ Seminar	
Module Level		2	Semester		1	
Department			Civil Engineering	College	College of Engineeri	ing
<b>Module Leader</b>		Khadija Al	od Mohammed	E-mail	Khadeja@wrec.uoqa	ısim.edu.iq
Module Leader	's A	Acad. Title	Assistant Lecturer	Module Qualificat	Leader's tion	Asst. Lect.
Module Tutor Khadija		Abd Mohammed	e-mail	e-mail Khadeja@wrec.uoqasim.e		
Peer Reviewer Name		N.A.	e-mail	N.A.		
Scientific Committee Approval Date		10/10/2024	Version Number	1.0		

 $\underline{Student\ Workload\ (SWL)}\!\!:$  Structured SWL (h/w) (Two contact hours of lectures) + Unstructured SWL (h/w) .

Student Workload (SWL)					
الحمل الدراسي للطالب					
Structured SWL (h/sem)	33	Structured SWL (h/w)	2.2		
الحمل الدراسي المنتظم للطالب خلال الفصل	33	الحمل الدر اسي المنتظم للطالب أسبو عيا	2.2		
Unstructured SWL (h/sem)	17	Unstructured SWL (h/w)	1.1		
الحمل الدراسي غير المنتظم للطالب خلال الفصل	17	الحمل الدراسي غير المنتظم للطالب أسبوعيا	1.1		
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	50				



#### **Relation with other Modules: -**

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

Me	Module Aims, Learning Outcomes and Indicative Contents			
	أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية			
COURSE DESCRIPTION:	It is pertinent to note that writing is a technical and complex language skill that requires a person's deliberate effort to gather and process information through graphic representations. Therefore, this course is devoted to develop and improve students' writing skill by selecting topics that qualify students to write sentences semantically and syntactically correct.			
Module Aims أهداف المادة الدراسية	<ul> <li>In this course, the student will learn: <ol> <li>to express his ideas, information, feelings and experiences through graphic symbols.</li> <li>to mix different sentence structures to reduce repetition and add emphasis to important points in the text.</li> <li>fill their writing with silent attention as well as giving emphasis to certain parts of the sentence by using the Punctuation marks</li> <li>join two related ideas of equal importance.</li> <li>join two related ideas of unequal importance.</li> <li>to use the capital letters to let the reader know a sentence beginning, to show important words in a title, and to signal proper names and official titles.</li> </ol> </li> <li>to organize and structure the information in an essay or research paper.</li> <li>the accuracy and clarity in writing.</li> <li>write accurately, clearly, and stylistically correct.</li> </ul>			



Module Learning	At the completion of the course, students are expected to be able to:					
	F 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
Outcomes	1. Identify and discuss writing stages.					
مخرجات التعلم للمادة	2. Identify the qualities of good writing.					
الدر اسية	3. Write sentences semantically and grammatically correct.					
. 3	4. Understanding the types of sentences.					
	5. Express their thought and ideas clearly while writing.					
	6. Adding more detail or information to a sentence.					
	7. Improving the writing skill by adding different types of					
	sentences.					
	8. Forming complex sentences.					
	9. Writing more coherent paragraphs					
	10.Helping the reader to clearly understand the message that is					
	being conveyed.					
	11. Avoiding suddenly shifting the topic, tense, or person.					
	12. Identify the words that should be capitalized					
	13. Write only what needs to be written.					
	14. Write effectively and powerfully.					
	15. Identifying certain parts of the sentence by using the Punctuation					
	marks					
	1. Moh. Hafidz, M.Pd,(2010)Basic Academic Writing. Bangkalan					
	2. Biber, D., Jahansson, S., Leech, G., Conrad, S., & Edward, F. (1999). Lo					
	ngman Grammar of Spoken and Witten English. Pearson					
Indicative Contents	Education Limited.					
المحتويات الإرشادية	3. Seaton, A.(2007).Basic English Grammar for English Langu					
<u> </u>	Learners. Saddleback Educational Publishing.					
	4. American Psychological Association.(2010). Publication Manual					
	of American Psychological Association. Library of Congress					
	Cataloging-in-Publication Data.					

#### **COURSE SCHEDULE:-**



Week	Topics Covered	<b>Learning Outcomes</b>	Notes
1	Writing Process	1, 2	
2	Sentence Variety	4,7	
3	Sentence Variety	4,7	
4	Coordination and Subordination	4, 7, 8	
5	Capitalization	11	
6	Subject-Verb agreement	3, 11	
7	What is the paragraph	9, 10, 14	
8	Exam		
9	Punctuation Marks	15	
10	Punctuation Marks	15	
11	Coherence and cohesion in writing	9	
12	Writing Style	3, 5, 6	
13	Writing Style	3,5,6	
14	Strategies to Improve Writing Style.	11, 13, 14	
15	Strategies to Improve Writing Style.	11, 13, 14	

#### **Learning Outcomes and Assessment Methods**

Topics Covered	Learning Outcomes	Strategies for Achieving Outcomes	Assessment Methods
Writing Process	1,2	Theoretical Lectures	quizzes, discussions



			during lectures
Sentence Variety	1,2	Theoretical Lectures	quizzes, discussions during lectures
Sentence Variety	4,7	Theoretical Lectures	quizzes, discussions during lectures
Coordination and Subordination	4,7,8	Theoretical Lectures	quizzes, discussions during lectures
Capitalization	11	Theoretical Lectures	quizzes, discussions during lectures
Subject-Verb agreement	3, 11	Theoretical Lectures	quizzes, discussions during lectures
What is the paragraph	9,10, 14	Theoretical Lectures	quizzes, discussions during lectures
Exam			
<b>Punctuation Marks</b>	15	Theoretical Lectures	quizzes, discussions during lectures
<b>Punctuation Marks</b>	15	Theoretical Lectures	quizzes, discussions during lectures
Coherence and cohesion in writing	9	Theoretical Lectures	quizzes, discussions during lectures
Writing Style	3, 5,6	Theoretical Lectures	quizzes, discussions during lectures
Writing Style	3,5,6	Theoretical Lectures	quizzes, discussions
·	•		



			during lectures
Strategies to Improve Writing Style	11, 13, 14	Theoretical Lectures	quizzes, discussions during lectures
Strategies to Improve Writing Style	11,13, 14	Theoretical Lectures	quizzes, discussions during lectures

Exam

#### **Module Evaluation:-**

Module Evaluation							
تقييم المادة الدراسية							
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome		
Formative assessment (40%)	Quizzes	٢	20% (20)	٣,٧, 10	ALL		
	Assignments & H.W.	6	5% (10)	2,6,9,12	ALL		
	Discussions During Lectures	5	5% (10)	Continuous	ALL		
Summative assessment (60%)	Midterm Exam (10%)	2hr	10% (10)	12	ALL		
	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 USWL	No. of weeks	Time Factor	SWL (hr)
Class	Class Lecturers		15	2	30



Lab.					
Tutorial					
Self Study		Self Study	10	1	10
Quizzes		Preparation for the Quizzes	2	3	6
discussions			6	1	6
during lectures					
	Project Work		6	1	6
Projects / Lab.		Preparation for the Project	2	1	2
Seminar	Presenting a Seminar		1	4	4
Cennia		Preparation for the Project	0	0	
Assignments, Homework		Preparation for the H.W.	1	8	8
Report		Preparation for the Report	1	3	3
Midterm Exam		Preparation for the Exam.			
(10%)	Evaluation				
Final Exam		Preparation for the Exam.	10	1	10
(50%)	Evaluation		1	3	3
		То	tal SWL (hr/ Semest	er)	50
		ECTS 2			2

# نموذج وصف المادة الدراسية

Module Information معلومات المادة الدر اسية						
<b>Module Title</b>			Mod	ule Delivery		
Module Type	Support				□ Theory ☑ Lecture	
<b>Module Code</b>		QCE0031			□ Lab	
ECTS Credits		٤			☐ Tutorial ☐ Practical	
SWL (hr/sem)	100				☐ Seminar	
<b>Module Level</b>			Semester of Delivery			
Administering I	Department	CIVIL	College	e Engineering		
Module Leader	Basim Moham	nmed Melgat (PhD.)	Melgat (PhD.) e-mail		Dr.Basimmohammed@wrec.uoqasim.edu.iq	
Module Leader's Acad. Title		Assistant Professor	Module Leader's Qualification Pl		Ph.D.	
Module Tutor None		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 QCE0021 Semester Two					
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	<ul> <li>The aim of this course is for students to learn to draw basic functions and how to derive them.</li> <li>Benefit from derivation in solving engineering applications,</li> <li>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.</li> <li>In addition, learn to calculate conic sections.</li> </ul>
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<ul> <li>After successful completion of this module, students should be able to:</li> <li>Ability to learn to graph basic functions.</li> <li>Ability to use calculus, in solving engineering applications.</li> <li>Mastery of mathematics to relate it to the stereoscopic geometry of a purpose the answer in descriptive engineering</li> <li>Ability to work as a team.</li> </ul>
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				
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)         Structured SWL (h/w)         4           الحمل الدر اسي المنتظم للطالب أسبو عيا         الحمل الدر اسي المنتظم للطالب خلال الفصل         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 الدر اسي الكلي للطالب خلال الفصل				

	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	
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	Matrices		
Week 2	Matrix algebra		
Week 3	Transpose, Determinate and Inversion of Matrix		
Week 4	Transpose, Determinate and Inversion of Matrix		
Week 5	Solution of Ax=B		
Week 6	Vectors		
Week 7	Dot and cross Product		
Week 8	Line and Plane in Space		

Week 9	Polar Coordinates
Week 10	Equation Relation Polar and Cartesian Coordinates
Week 11	Graphing in polar Coordinates
Week 12	Application of Polar Coordinates
Week 13	Sequence and Series
Week 14	Series Test
Week 15	Power Series
Week 16	Tylor and Maclaurin Series

Delivery Plan (Weekly Lab. Syllabus)				
	المنهاج الاسبوعي للمختبر			
	Material Covered			
Week 1	Matrix algebra			
Week 2	Transpose, Determinate and Inversion of Matrix			
Week 3	Transpose, Determinate and Inversion of Matrix			
Week 4	Solution of Ax=B			
Week 5	Vectors			
Week 6	Dot and cross Product			
Week 7	Line and Plane in Space			
Week 8	Mid-term Exam			
Week 9	Equation Relation Polar and Cartesian Coordinates			
Week 10	Graphing in polar Coordinates			
Week 11	Application of Polar Coordinates			
Week 12	Sequence and Series			
Week 13	Series Test			
Week 14	Power Series			
Week 15	Tylor and Maclaurin Series			
Week 16	Equation Relation Polar and Cartesian Coordinates			

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

Grading Scheme مخطط الدر جات					
Group	Grade	التقدير	Marks (%)	Definition	
	A - Excellent	امتياز	90 - 100	Outstanding Performance	
Success	<b>B</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)	<b>D</b> - 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						
<b>Module Title</b>	Co	mputer Languag	ge	Mod	ule Delivery	
<b>Module Type</b>		Basic			☐ Theory	
<b>Module Code</b>		QCE0015			☑ Lecture	
ECTS Credits		3			□ Lab     □ Tutorial	
SWL (hr/sem)	100			☐ Practical ☐ Seminar		
<b>Module Level</b>			Semester of Delivery			
Administering I	Department	CIVIL	College	Engineering		
Module Leader	e-mai		e-mail			
Module Leader's Acad. Title		Lecture	<b>Module Leader's Qualification</b>			
<b>Module Tutor</b>	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		

Mo	odule 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 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  مخرجات التعلم للمادة الدراسية	After successful completion of this module, students should be able to:  • Understand fundamental concepts in networking, security, AI, and e-commerce.  • Apply troubleshooting and AI technologies to practical challenges.  • Analyses societal and ethical implications of AI advancements
Indicative Contents المحتويات الإرشادية	Indicative content includes the following:  Part A: Networking and Security Basics: Explore the fundamentals of networks, components, security basics, and threats., [' hrs]  Part B: E-Commerce and Computer Troubleshooting: Learn about electronic banking services and basic troubleshooting techniques for hardware and software [' hrs]  Part C: Introduction to AI: Understand AI definitions, history, characteristics, benefits, challenges, and ethical considerations. [' hrs].  Part D: AI in Modern Applications: Discover AI-driven tools in smartphones and industries like healthcare, marketing, and robotics. [' hrs]  Part E: AI and Society Analyses the societal and ethical impacts of AI and explore future trends and technologies. [* 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 الدر اسي للطالب					
Structured SWL (h/sem)	48	Structured SWL (h/w)	2		
الحمل الدراسي المنتظم للطالب خلال الفصل	40	الحمل الدراسي المنتظم للطالب أسبوعيا	3		
Unstructured SWL (h/sem)	52	Unstructured SWL (h/w)	3.466		
الحمل الدراسي غير المنتظم للطالب خلال الفصل	52	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) 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			
Weeks	Material Covered			
Week 1	Security and Networking: What is a network? Types of networks. Basic network components.			
Week 2	Security and Networking (Cont.): Network Security Basics. Understanding network threats.			
Week 3	E-Commerce: Concepts of Electronic banking services this include online banking: ATM and debit card services, Phone banking, SMS banking, electronic alert, Mobile banking			
Week 4	Computer Troubleshooting: Identifying and solving common hardware and software problems that computer users encounter.			
Week 5	Computer Troubleshooting (Cont.): Basic troubleshooting techniques and tools for diagnosing and resolving issues.			
Week 6	Introduction to Al: Definition of Al, History Techniques and Approaches. of Al, History of Al, Al technique and approach			
Week 7	Introduction to Al(Cont.): Key Characteristics of Al, Benefits of Al, Challenges and Ethical considerations.			
Week 8	The Role of Al in Modern Smartphones: Al-Driven Mobile Technologies, Virtual Assistants (Siri, Google Assistant, Alexa).			
Week 9	The Role of Al in Modern Smartphones (Cont.): Adaptive Learning, Real-Time Translation Services.			
Week 10	Applications and Tools of Al: Overview of Al Applications in Various Industries, Education and Healthcare.			
Week 11	Applications and Tools of Al (Cont.): Transportation, Marketing and Advertising.			
Week 12	Applications and Tools of Al(Cont.): Finance, Robotics and Automation Technologies			
Week 13	Al and Society: How Al affects social, Al and international relations, Al and the future of humanity.			
Week 14	Ethical Challenges in Al: Al ethics, privacy and surveillance, the impact of Al on the job			

	market.
Week 15	The Future of Al: Future trends in Al, recent research and emerging technologies

#### **Learning and Teaching Resources**

مصادر التعلم والتدريس

	Text	Available in the Library?			
Required Texts	<ul> <li>Y. Graham Brown, David Watson, "Cambridge IGCSE Information and Communication Technology", 3rd Edition (2020)</li> <li>Y. Alan Evans, Kendall Martin, Mary Anne Poatsy, "Technology In Action Complete", 16th Edition (2020).</li> <li>3. Ahmed Banafa, "Introduction to Artificial Intelligence (AI)", 1st Edition(Y · Y £)</li> </ul>	Yes			
Recommended Texts	الخضر على الخضر بحاث, " أساسيات الحاسوب" ٢٠١٦ الدكتور عادل عبد النور . "مدخل إلى عالم الذكاء الاصطناعي " ٢٠٠٥	No			
Websites	<del>-</del> 1 - 2 · 3 · 3 · 3 · 3 · 3 · 3 · 3 · 3 · 3 ·	1			

Grading Scheme مخطط الدرجات					
Group	Grade	التقدير	Marks (%)	Definition	
	A - Excellent	امتياز	90 - 100	Outstanding Performance	
Success	<b>B</b> - Very Good	جيد جدا	80 - 89	Above average with some errors	
Group (50 - 100)	C - Good	ختر	70 - 79	Sound work with notable errors	
	<b>D</b> - 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						
<b>Module Title</b>	Engi	Engineering Surveying II Module Delivery				
<b>Module Type</b>	Core				□ Theory ☑ Lecture	
<b>Module Code</b>		QCE0043			□ Lab	
<b>ECTS Credits</b>		6			☐	
SWL (hr/sem)		150			☐ Seminar	
<b>Module Level</b>			Semester of Delivery			
Administering I	Department	CIVIL	College	Engineering		
Module Leader	Aysar Jameel	Abdalkadhum	e-mail Aysar@wrec.uoqasim.edu.iq		.edu.iq	
Module Leader's Acad. Title		Assets Professor Module Lead		eader's	Qualification	Ph.D.
<b>Module Tutor</b>	or 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	QCE0033	Semester	Three		
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	This course aims to introduce and develop the basic understanding of the principles of engineering surveying		
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<ul> <li>After successful completion of this module, students should be able to:</li> <li>An ability to apply knowledge of engineering surveying, science and engineering</li> <li>An ability to design and conduct experiments, as well as to analyze and interpret data</li> <li>An ability to identify, formulate, and solve engineering problems</li> </ul>		
Indicative Contents المحتويات الإرشادية	Indicative content includes the following:  Part A: Theodolite and Total Station [8 hrs]  Part B: Areas [12 hrs]  Part C: Curves [ 21 hrs].  Part D: Tachometry [3 hrs]  Part E:Topography, Earth working, [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	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	4.8	
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 assessn	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	Digital mapping and surface models				
Week 3	Setting out construction map using theodolite and tape				
Week 4	Setting out construction map using Total Station				
Week 5	level types-refraction and curvature errors- Measure angle by tape only				
Week 6	Leveling methods adjustment leveling network- Tachometry method				
Week 7	Distance measurement methods-taping- Two pegs test				
Week 8	EDM- Differential Leveling				
Week 9	Angle, Azimuth, and Bearing				
Week 10	Angle measurement				
Week 11	Angle measurements and distance measurements				
Week 12	Profile cross section contour map				
Week 13	Regular area- irregular area cross sections				
Week 14	Volume computation-mass haul diagram				
Week 15	Revision class				
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	- Ghilani, C. D. and P. R. WOLF (2014). Elementary Surveying: An Introduction to Geomatics. New Jersey/ The United State of America, PEARSON.	No		
Recommended Texts	Nadolinets, L., et al. (2017). Surveying Instruments and Technology. New York, Taylor & Francis.	No		
Websites				

Grading Scheme			
مخطط الدرجات			
Group Grade التقدير Marks Definition			

			(%)		
Success	A - Excellent	امتياز	90 - 100	Outstanding Performance	
	<b>B</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)	<b>D</b> - 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 معلو مات المادة الدر اسية						
<b>Module Title</b>	F	uid Mechanics I	I	Mod	ule Delivery	
Module Type		Support			□ Theory □ Lecture	
<b>Module Code</b>		QCE0045			⊠ Lab	
ECTS Credits		6			□ Tutorial     □ Practical	
SWL (hr/sem)		150			☐ Seminar	
<b>Module Level</b>			Semester of Delivery			
Administering I	Department	CIVIL	College	Engine	ering	
Module Leader	Ammar Ali Abd		e-mail	ammar	ali@wrec.uoqas	sim.edu.iq
Module Leader	's Acad. Title	Professor	Module L	eader's	Qualification	Ph.D.
<b>Module Tutor</b>	None		e-mail	None		
Peer Reviewer Name None		e-mail		None		
Scientific Committee Approval Date 01/06/2023		01/06/2023	Version Number		1.0	

Relation with other Modules				
العلاقة مع المواد الدراسية الأخرى				
Prerequisite module	QCE0034	Semester	Three	
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	<ul> <li>The course will introduce fluid mechanics and establish its relevance in civil engineering.</li> <li>Recognition of and develop the knowledge about the fundamental hydraulic definitions and the</li> <li>principle fluid properties underlying the subject.</li> <li>Establish how these definitions and properties are utilized to solve the elementary hydrostatical and</li> <li>hydro dynamical problems that may face the civil engineer.</li> </ul>
Module Learning Outcomes  مخرجات التعلم للمادة الدراسية	<ul> <li>After successful completion of this module, students should be able to:</li> <li>Ability to apply knowledge of mathematics, science and engineering</li> <li>An ability to design and conduct experiments, as well as to analyze and interpret data</li> <li>An ability to identify, formulate, and solve engineering problems.</li> </ul>
Indicative Contents المحتويات الإرشادية	Indicative content includes the following:  Part A: Losses in Pipes [8 hrs]  Part B: Pipes in Series [12 hrs]  Part C: Pipes in Parallel [21 hrs].  Part D: Open Channel Flow Equations [3 hrs]  Part E: Critical Flow and Its Applications, Pumps Hydraulic. [3 hrs]

Learning and Teaching Strategies				
	استر اتيجيات التعلم والتعليم			
	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)				
	اسي للطالب	الحمل الدر		
Structured SWL (h/sem)	78	Structured SWL (h/w)	_	
الحمل الدراسي المنتظم للطالب خلال الفصل	70	الحمل الدراسي المنتظم للطالب أسبوعيا	3	
Unstructured SWL (h/sem)	72	Unstructured SWL (h/w)	4.8	
الحمل الدراسي غير المنتظم للطالب خلال الفصل	12	الحمل الدراسي غير المنتظم للطالب أسبوعيا	4.0	
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	150			

#### **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	Losses in Pipes				
Week 3	Pipes in Series				
Week 4	Pipes in Parallel, Branching Pipes				
Week 5	Pipes Network, Open Channel Flow,				
Week 6	Support and describe a fine define of the fluid, fluid mechanics, dimensions and units related with its study and comprehend its relevance to civil engineering.				
Week 7	Fluid Static(Fluid Pressure and its Measurement Methods,				
Week 8	Hydrostatic Force on Immersed Plane Surfaces, Hydrostatic Force on Immersed Curved Surfaces.				
Week 9	Open Channel Flow Equations ,.				
Week 10	Critical Flow and Its Applications				
Week 11	Energy Equation				
Week 12	Momentum Equation				
Week 13	Calculate forces and moments for jets, vanes, nozzles and pipe sections.				
Week 14	How can measure flow rate by wieres and flumes				
Week 15	Pumps Hydraulic				

Week 16	Preparatory week before the final Exam				
	Delivery Plan (Weekly Lab. Syllabus)				
	المنهاج الاسبوعي للمختبر				
	Material Covered				
Week 1	DENSITY AND SPECIFIC GRAVITY				
Week 2	VISCOSITY				
Week 3	SURFACE TENSION				
Week 4	CAPILLARITY				
Week 5	CENTER OF PRESSURE				
Week 6	FLOW THROUGH A CIRCULAR ORIFICE				
Week 7	TRAJECTORY OF A HORIZONTAL JET				
Week 8	Mid-term Exam				
Week 9	TIME TO EMPTY A VESSEL				
Week 10	IMPACT OF JETS				
Week 11	VERIFICATION OF BERNOULLI'S EQUATION				
Week 12	DEMONSTRATION OF LAMINAR AND TURBULENT FLOW				
Week 13	PIPE FLOW MEASUREMENT (FLOW THROUGH VENTURI TUBE)				
Week 14	FRICTION LOSSES IN PIPES.				
Week 15	MINOR LOSSES IN PIPES				
Week 16	MINOR LOSSES IN PIPES				

	Learning and Teaching Resources مصادر التعلم والتدريس	
	Text	Available in the Library?
Required Texts	- <i>Engineering Fluid Mechanics</i> , Crowe, C. T., D. F. Elger, B. C.Williams and J. A. Roberson, John Wiley & Sons, New York, 2010	No
Recommended Texts	Elementary Fluid Mechanics, Vennard, J. K., John Wiley & Sons, New York.	No

#### Websites

	Grading Scheme مخطط الدرجات					
Group	Grade	التقدير	Marks (%)	Definition		
	A - Excellent	امتياز	90 - 100	Outstanding Performance		
Success	<b>B</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)	<b>D</b> - 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 Inf مادة الدر اسية				
<b>Module Title</b>		<b>Human Rights</b>		Mod	ule Delivery	
Module Type		Support			□ Theory □ Lecture	
<b>Module Code</b>		QCE0037			☐ Lab ☐ Tutorial ☐ Practical	
ECTS Credits		2				
SWL (hr/sem)	50				☐ Seminar	
<b>Module Level</b>			Semester o	of Delivery		
Administering I	Department	CIVIL	College	ege Engineering		
Module Leader			e-mail	il		
Module Leader	's Acad. Title	Assistant Professor	Module L	dule Leader's Qualification Ph.D.		Ph.D.
<b>Module Tutor</b>		None e-mail None				
Peer Reviewer N	Name	None	e-mail	None		:
Scientific Comn Approval Date	nittee	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 الدراسية	<ul> <li>تعليم الطلبة المبادئ الأساسية في الديمقر اطية وحقوق الإنسان وتوفير رؤية للأطر القانونية المتعلقة بها ووسائل التعبير عن الرأي، والأسس الأيديولوجية للديمقر اطية ومبادئ حقوق الإنسان.</li> </ul>
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<ul> <li>شرح مفردات المنهج وتوضيحها للطلبة.</li> <li>اسقاط النظريات والأفكار المتعلقة بالمادة على الواقع الاجتماع ي</li> </ul>
Indicative Contents المحتويات الإرشادية	<ul> <li>Indicative content includes the following:</li> <li>التطور التاريخي لحقوق الإنسان</li> <li>حقوق الإنسان في القانون الدولي</li> </ul>

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)				
	اسي للطالب	الحمل الدر		
Structured SWL (h/sem)	22	Structured SWL (h/w)		
الحمل الدراسي المنتظم للطالب خلال الفصل	33	الحمل الدراسي المنتظم للطالب أسبوعيا		
Unstructured SWL (h/sem)	17	Unstructured SWL (h/w)	1.13	
الحمل الدراسي غير المنتظم للطالب خلال الفصل	1 /	الحمل الدراسي غير المنتظم للطالب أسبوعيا	1.13	
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	50			

<b>Module Evaluation</b>
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	سرد تأريخي لتعليم الطلبة التطور التاريخي لحقوق الإنسان			
Week 2	تعليم الطلبة مفردات حقوق الإنسان في القانون لدولي			
Week 3	تعليم الطلبة مفردات حقوق الإنسان في القانون لدولي			
Week 4	تعليم الطلبة صور الديمقراطية			
Week 5	تعليم الطلبة صور الديمقراطية			
Week 6	تعليم الطلبة الديمقر اطية غير المباشرة (النيابية أو التمثيلية)			
Week 7	تعليم الطلبة الديمقر اطية غير المباشرة (النيابية أو التمثيلية)			
Week 8	تعليم الطلبة الحكومة بين حرية الإنسان وضرورة الدول			
Week 9	تعليم الطلبة الحكومة بين حرية الإنسان وضرورة الدول			
Week 10	تعليم الطلبة الحكومة بين حرية الإنسان وضرورة الدول			
Week 11	تعليم الطلبة الحكومة بين حرية الإنسان وضرورة الدول			
Week 12	تعليم الطلبة الحكومة بين حرية الإنسان وضرورة الدول			
Week 13	تعليم المرأة حقوق المرأة والمشكلات التي تعترض ذلك			
Week 14	تعليم المرأة حقوق المرأة والمشكلات التي تعترض ذلك			
Week 15	تعليم المرأة حقوق المرأة والمشكلات التي تعترض ذلك			
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	الدستور العراقي الصادر عام2005	No		
Recommended Texts	الإنسان وحقوق الديمقر اطية حول متفرقة مؤلفات مجموعة	No		
Websites				

Grading Scheme مخطط الدرجات					
Group	Grade التقدير		Marks (%)	Definition	
	A - Excellent	امتياز	90 - 100	Outstanding Performance	
Success	<b>B</b> - Very Good	جيد جدا	80 - 89	Above average with some errors	
Group (50 - 100)	C - Good	ختر	70 - 79	Sound work with notable errors	
	<b>D</b> - 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 الدر اسية						
<b>Module Title</b>	Strength of Materials		s II	Mod	ule Delivery	
Module Type		Core			☐ Theory	
<b>Module Code</b>		QCE0042			☑ Lecture □ Lab	
<b>ECTS Credits</b>		4			$\square$ Tutorial	
SWL (hr/sem)	100			☐ Practical ☐ Seminar		
Module Level		Semester of		of Deliv	ery	
Administering I	Department	CIVIL	College	e Engineering		
Module Leader	Fatimah Hameed Naser		e-mail	fatimal .iq	n_mamoori@wi	rec.uoqasim.edu
Module Leader's Acad. Title		Assets Professor	Module L	Module Leader's Qualificatio		PhD
<b>Module Tutor</b>	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	QCE0032	Semester	Three	
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 mechanics of materials teaches civil engineering students the basics for calculating the different types of internal stresses (normal and shear) and related deformation occurred in the body due to external effects. This course is needed for all subsequent structural design courses.  In general , students get knowledge about all the subjected mentioned within the description of the two courses. The adopted syllabus is the base for the related subjects that the students will get during the third study stage.		
Module Learning Outcomes  مخرجات التعلم للمادة الدراسية	After successful completion of this module, students should be able to:  1. An ability to apply knowledge of strength of materials, science and engineering.  2. An ability to design and conduct experiments, as well as to analyze and interpret data.  3. An ability to identify, formulate, and solve engineering problems.  Indicative content includes the following:		
Indicative Contents	Part A: Stresses in beams, [8 hrs]		
Indicative Contents	Part B: Compound stresses and transformation of stresses and strains [12 hrs]		
المحتويات الإرشادية	Part C: Deflection of Beams [ 21 hrs].		
	Part D: Columns [3 hrs]		
	Part E: Columns [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)       100         الحمل الدراسي الكلي للطالب خلال الفصل			
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 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 assessment		100% (100 Marks)			

	Delivery Plan (Weekly Syllabus)			
	المنهاج الاسبوعي النظري			
	Material Covered			
Week 1	Welcome to this course, Textbook. Distribution of data, tabular presentation of data.			
Week 2	Stresses in beams			
Week 3	Stresses in beams			
Week 4	Compound stresses and transformation of stresses and strains			
Week 5	Plotting methods of shear and bending moment diagrams are studied according to two methods, equations and graphical methods.			
Week 6	Deflection of Beams			
Week 7	The simple strain represented by axial deformations for the determinate or indeterminate systems.			
Week 8	Simple strain and deformation of axially loaded members			
Week 9	Methods that used to determine the deflection in beams is given herein			
Week 10	Methods that used to determine the deflection in beams is given herein			
Week 11	Columns .			
Week 12	Columns .			
Week 13	Shear Force and bending moment diagrams.			
Week 14	Shear Force and bending moment diagrams .			
Week 15	Shear Force and bending moment diagrams .			
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			
Week 9	Mid-term Exam		
Week 10			
Week 11			
Week 12			
Week 13			
Week 14			
Week 15			
Week 16	Preparatory week before the final Exam		

Learning and Teaching Resources مصادر التعلم والتدريس				
	Text	Available in the Library?		
Required Texts	<ol> <li>Egor Popov, "Introduction to Mechanics of Solids". 1968 by Prentice-Hall,</li> <li>Englewood Cliffs, New Jersey.</li> <li>Singer S.,"Strength of Materials" Fourth ed.".</li> </ol>	No		
Recommended Texts	Optional Text: "Gere"Mechanics of material "Hibbler" Mechanics of material	No		
Websites				

Grading Scheme مخطط الدرجات					
Group	Grade	التقدير	Marks (%)	Definition	
	A - Excellent	امتياز	90 - 100	Outstanding Performance	
Success	<b>B</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)	<b>D</b> - 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	



#### "COURSE PORTFOLIO"

	COUNSETORITOEIO					
Module Information						
ومات المادة الدراسية						
<b>Module Title</b>	اللغة العربية			Module Delivery		
<b>Module Type</b>	Basic			☑ Theory		
<b>Module Code</b>				☐ Lecture		
<b>ECTS Credits</b>	2			─ □ Lab □ Tutorial		
SWL (hr/sem)	50			☐ Practical		
				☐ Seminar		
<b>Module Level</b>		1	Semester 1			
Department		Civil Engineering	College	College of Engineering		
<b>Module Leader</b>	Hawraa azee	z oleiwi	E-mail hawrra.alqaim@wrec.uoqasim.ed			
Module Leader	's Acad. Title	<b>Assist Professor</b>	Module Leader's Qualification Ph.D.			
<b>Module Tutor</b>		N.A.	e-mail	mail N.A.		
Peer Reviewer Name		N.A.	e-mail	N.A.		
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/w)           الحمل الدراسي المنتظم للطالب أسبوعيا         الحمل الدراسي المنتظم للطالب أسبوعيا						
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	17	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	1.1			
Total SWL (h/sem)       50         الحمل الدر اسي الكلي للطالب خلال الفصل						



#### **Relation with other Modules: -**

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

أهداف المادة الدراسية ونتائج التعلم والمحتو تهتم هذه المادة بتدريس قواعد اللغة العربية وآدابها ومعاني الالفاظ ومدلو ا تنمي حسن استعانتهم بمعاجم اللغة والألفاظ تهتم بتحسين الصورة الجمالية للغة العربية
تنمي حسن استعانتهم بمعاجم اللغة والألفاظ
<ul> <li>١- أن يتعرف الطالب أهم معاني المصطلح النحوي .</li> <li>٢- أن يتعرف الطالب دور الكلمة داخل الجملة ويفقه العلاقة داخل مكونات</li> <li>٣- أن يتعرف الطلبة أنواع الجملة في اللغة العربية .</li> </ul>
<ul> <li>٤- أن يفهم الطلبة ان اللغة العربية هي لغة منتمية الى اللغة الاصل هي لغ أن يفهم الطلبة معنى الذائقة الأدبية ويحسن اختيار اللفظة المناسبة</li> <li>١-أن يفرق الطلبة بين موضوعات اللغة العربية الامر الذي ينتج كلا متكام على صعيد القواعد أو الإملاء أو الادب من أجل تعبير سليم .</li> </ul>
<ul> <li>٢ – أن يتمرن الطلبة على التحدث باللغة العربية الفصحى وتنمية قابلياتهم للإفادة منها في حياتهم العلمية والعملية وذلك من خلال دراسة النص القرآنية السنتهم واستلهام العبر من القصص التي وردت في بعض السور القرآنية .</li> </ul>
<ul> <li>٣- أن يعتاد الطلبة تذوق الخطاب الأدبي ليرتقوا بذائقتهم وهم يعدون أو يحمد مختلف أنواع الخطاب .</li> </ul>
٤- أن يتعرف الطلبة طرائق التمييز بين اساليب التعبير ، واختيار الأولم المهارات العامة والتأهيلية المنقولة (المهارات الأخرى المتعلقة بقابلية التوف
<u>ا</u>



الشخصي).	المحتويات الإرشادية
١- الموهبة .	
٧- المتابعة	
٣- تحديد العمل (المكتبة والدراسة الميدانية).	

#### **COURSE SCHEDULE:-**

Week	hours	<b>Topics Covered</b>	<b>Learning Outcomes</b>
	<u> </u>	Topic I	
1	8	المقاعيل	1,3
	<u> </u>	Topic II	
2,3	15	القاعل	2, 3,6
	<u> </u>	Topic III	
4	8	نائب الفاعل	1,2
		Topic IV	
5	8	بناء الفعل للمجهول	4,5
		Topic V	
6,7	15	التنوين	4,5
		Topic VI	
8,9	8	البدل	4,5
10	7	كتابة التاء في العربية	4,5,6



	Topic VIII				
11	8	الحروف التي تُكتب ولا تُلفظ	4, 5		
12	6	مختارات من الادب الاندلسي	4, 5		
13	8	تحليل نص شعري لمحمد الحرزي	4, 5		
14	8	تحليل نص شعري لمعروف الرصافي	4, 5		
15	8	القصص القرآني دراسة في سورة يوسف	4,5,6		
	Final Exam				

#### **Learning Outcomes and Assessment Methods**

Topics Covered	Learning Outcomes	Strategies for Achieving Outcomes	Assessment Methods
	1,3	Problem Based Learning, Critical thinking questions, Theoretical Lectures, tutorials, Small Group Discussions,	quizzes, HomeWorks , discussions during lectures, Written Exams.
	2,3,6	Problem Based Learning, Critical thinking questions, Theoretical Lectures, tutorials, Small Group Discussions,	quizzes, HomeWorks, discussions during lectures, Written Exams.
	1,2	Problem Based Learning, Critical thinking questions, Theoretical Lectures, tutorials, Small Group Discussions,	quizzes, HomeWorks, discussions during lectures, Written Exams.
	4,5	Theoretical Lectures, Small Group Discussions,	quizzes, discussions during lectures,
	4, 5	Theoretical Lectures, Small Group Discussions,	quizzes, discussions during lectures,
	4,5,6	Theoretical Lectures, Small Group Discussions,	quizzes, discussions during lectures,
	4,5,6	Theoretical Lectures, Small Group Discussions,	quizzes, discussions during lectures,



#### **Module Evaluation:-**

Module Evaluation تقييم المادة الدر اسية						
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome	
	Quizzes	٣	30% (30)	۳,۷, 10	ALL	
Formative assessment	Assignments & H.W.	4	5% (5)	2,6,9,12	ALL	
(40%)	Discussions During Lectures	5	5% (5)	Continuous	ALL	
Summative Midterm Exam assessment (10%)		2hr	10% (10)	12	ALL	
(60%)	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 USWL	No. of weeks	Time Factor	SWL (hr)
Class	Class Lecturers		15	2	30
Lab.					
Tutorial					
Self Study		Self Study	15	2	30
Quizzes		Preparation for the Quizzes	3	4	12
discussions			5	1	5
during lectures					
	Project Work		0	0	0
Projects / Lab.		Preparation for the Project	0	0	0
Seminar	Presenting a Seminar		0	0	0
Commu		Preparation for the Project			
Assignments, Homework		Preparation for the H.W.	6	2	12
Report		Preparation for the Report	0	0	0
Midterm Exam		Preparation for the Exam.	1	5	5
(10%)	Evaluation		1	1	1
Final Exam		Preparation for the Exam.			
(50%)	Evaluation		1	3	3



	Total SWL (hr/ Semester)	50
	ECTS	2



#### "COURSE PORTFOLIO"

Module Information						
ومات المادة الدراسية	معلا					
<b>Module Title</b>	م البعث في العراق	جرائم نظا		Module D	Delivery	
<b>Module Type</b>	Basic			×	Theory	
<b>Module Code</b>					Lecture	
<b>ECTS Credits</b>	۲				Lab	
CYNTE (I. I.					Tutorial	
SWL (hr/sem)	٥.			☐ Practical		
				☐ Seminar		
<b>Module Level</b>		2 Semeste				4
Department		Civil Engineering	College	College of Engineering		ng
Module Leader	Nadaa Mol	named asfor	E-mail	Nidaa_moh du.iq	nammed@	wrec.uoqasim.e
Module Leader	's Acad. Title	Asst. Lecturer	Module Leader's Qualification MSC.			MSC.
<b>Module Tutor</b>		N.A.	e-mail N.A.			
Peer Reviewer Name N.A.		e-mail	nail N.A.			
Scientific Committee Approval Date		Version N	umber 1.0			

Student Workload (SWL)				
Structured SWL (h/sem) TT Structured SWL (h/w) T.2				
Unstructured SWL (h/sem)	17 Unstructured SWL (h/w) 1.1			
Total SWL (h/sem)	٥.			

**Relation with other Modules: -**



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				
COURSE DESCRIPTION:	تهتم هذه المادة بتدريس الجرائم الشنيعة التي اقترفها نظام البعث في العراق. فقد جثم نظام البعث البائد على صدر العراق والعراقيين زهاء أربعة عقود يستقي سياسة تسلطه من رَضاعِ عُتاةِ الطغاةِ حِقَّبَ التاريخ كرقابيل، والنمرود، و فرعون، وأبي لهب، والحجاج، ويزيد، وهو لاكو وغيرهم) بما يتناسب ونشأة رأسه الطاغية وعدو الانسانية (صدام حسين) المقبور، فذاق ويلات هذا النظام كل من انتهج سبيل الحق وحب الوطن.				
Module Aims أهداف المادة الدراسية	أن يفهم الطالب مفهوم الجريمة.     آن يتعرف الطالب على أقسام الجريمة وأنواعها.     آن يتعرف الطالب على أقسام الجريمة وأنواعها.     آن يتعرف الطالب على الجرائم التي ارتكبها نظام البعث بحق العراق والعراقيين.     آن يتعرف الطالب على انتهاكات حقوق الانسان التي قام بها نظام البعث.     أن يتعرف الطالب على الجرائم النفسية والاجتماعية التي قام بها نظام البعث وآثارها على الشعب العراقي.     آد أن يتعرف الطالب على الجرائم البيئية التي قام بها نظام البعث وما خلفته من آثار بحق الشعب العراقي.     العراقي.				
	٧- أن يتعرف الطالب على أحداث جرائم المقابر الجماعية التي قام بها نظام البعث				
Module Learning Outcomes	<ul> <li>١- أن يُعرف الطالب مفهوم الجريمة وفق علم القانون و علم الاجتماع و علم النفس ووفق علم الشريعة الاسلامية.</li> <li>٢ – أن يميز الطالب بين أقسام الجرائم وأنواعها.</li> <li>٣- أن تكون لدى الطالب الرؤية الواضحة والكاملة لحقبة نظام البعث وفي العراق.</li> </ul>				
مخرجات التعلم للمادة الدر اسية	<ul> <li>٤- اطلاع الطالب على الثورات والانتفاضات التي قام بها الشعب العراقي ضد الحكم وما واجهته من قمع وقتل وزج في السجون.</li> </ul>				
Indicative Contents المحتويات الإرشادية	<ul> <li>١- جرائم نظام البعث في العراق، مقرر دراس للجامعات الحكومية والاهلية كافة.</li> <li>٢- قوانين الاحتلال الحربي، حقوق السكان والمدنيين في المناطق المحتلة وحماياتها، الإدارة السياسية، إحسان هندي</li> <li>٣- أرشيف مؤسسة السجناء السياسيين.</li> <li>٤- أرشيف مؤسسة الشهداء.</li> <li>٥- أرشيف المركز العراقي لتوثيق جرائم التطرف في العتبة العباسية المقدسة.</li> <li>٢- المسؤولية الدولية عن ارتكاب جريمة الابادة الجماعية، أيمن عبد العزيز سلامة.</li> <li>٧- جغرافية أهوار ومستنقعات جنوب العراق، حسن الخياط.</li> </ul>				



٨- موسوعة البيئة العراقية، سليم مطر.

٩- المقابر الجماعية شعب تحت التراب، عباس عطية القريشي.

#### **COURSE SCHEDULE:-**

Week	hours	Topics Covered	<b>Learning Outcomes</b>					
	Topic I							
1		مفهوم الجريمة وأقسامها	1,3					
		Topic II						
2		القرارات الصادرة من المحكمة الجنائية العليا	2, 3,6					
3		القرارات الصادرة من المحكمة الجنائية العليا	2,3,6					
		Topic III						
4		الجرائم النفسية وآثار ها	1,2					
		Topic IV						
5		الجرائم الاجتماعية وآثارها	4,5					
		Topic V						
6		انتهاكات القوانين العراقية	4,5					
7		انتهاكات القوانين العراقية	4,5					
		Topic VI						
8		صور انتهاكات حقوق الانسان	4,5					
9		صور انتهاكات حقوق الانسان	4,5					
10		الانتهاكات السياسية والعسكرية لنظام البعث	4,5,6					
		Topic VIII						
11		الجرائم البيئية لنظام البعث في العراق (التلوث الحربي والاشعاعي وانفجار الإلغام)	4, 5					
12		تدمير المدن والقرى (سياسة الارض المحروقة)، قصف العتبات المقدسة، معركة نهر جاسم	4, 5					
13		حرق آبار النفط، تجفيف الاهوار، تجريف البساتين	4, 5					
14		جرائم المقابر الجماعية	4, 5					
15		التصنيف الزمني لمقابر الإبادة الجماعية في العراق للمدة ١٩٦٣ – ٢٠٠٣م	4,5,6,7					



#### **Final Exam**

**Learning Outcomes and Assessment Methods** 

		illes una rissessiment internous	
<b>Topics Covered</b>	Learning	<b>Strategies for Achieving Outcomes</b>	Assessment Methods
	Outcomes		
1	1,3	Problem Based Learning, Critical thinking questions.	discussions during lectures
2	2,3,6,7	Theoretical Lectures, tutorials.	discussions during
			lectures.
3	1,2	Critical thinking questions, Theoretical Lectures, tutorials.	Quizzes, Home works
4	4,5,7	Theoretical Lectures, Small Group	Quizzes, Major reports,
		Discussions.	discussions during
			lectures, Home works
5	4, 5	Theoretical Lectures, Discussions,	Quizzes, Home works
6	4,5,6,7	Theoretical Lectures, Small Group Discussions.	Quizzes, Home works
7	4,5,6,7	Theoretical Lectures, Discussions.	Quizzes, Home works

**Module Evaluation:-**

Wodule Evaluation:-						
Module Evaluation تقييم المادة الدر اسية						
	Time/Numb er Weight (Marks) Week Due Relevant Learning Outcome					
	Quizzes	3	10% (10)	٣,٧, 10	ALL	
Eaumativa	Lab work	4	10% (10)	2,6,9,12	ALL	
Formative assessment (40%)	Discussions During Lectures	5	10% (10)	Continuou s	ALL	
Summative	Midterm Exam (10%)	2hr	10% (10)	12	ALL	
assessment (60%)	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 USWL	No. of weeks	Time Factor	SWL (hr)
Class	78	72	15	2	30
Lab.			15	2	30
Tutorial			15	1	15
Self Study		Self Study	15	2	30
Quizzes		Preparation for the Quizzes	1	2	2
discussions during lectures			6	1	6
	Project Work		0	0	0
Projects / Lab.		Preparation for the Project	0	0	0
	Presenting a Seminar		2	2	4
Seminar		Preparation for the Project			
Assignments, Homework		Preparation for the H.W.	3	1	3
Report		Preparation for the Report	5	3	15
Midterm		Preparation for the Exam.	1	1	10
Exam (10%)	Evaluation		1	1	1
Final Exam (50%)		Preparation for the Exam.	3	1	3
(30 /0)	Evaluation				
		Total SWL (hr/ Semester)			150
			ECTS		6

# نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية						
<b>Module Title</b>	Mathematics Y II			Mod	ule Delivery	
Module Type		Support			□ Theory     □ Lecture	
<b>Module Code</b>		QCE0031			□ Lab	
ECTS Credits		٤		☐ Tutorial ☐ Practical		
SWL (hr/sem)		100			☐ Seminar	
<b>Module Level</b>			Semester	of Deliv	ery	
Administering I	Department	CIVIL	College	Engine	ering	
Module Leader	Ahmed Hassa	n Ashor (MSC.)	e-mail	ahmeda	ashor@wrec.uo	qasim.edu.iq
Module Leader	's Acad. Title	Assistant lecturer	<b>Module Leader's Qualification</b> MSC.		MSC.	
<b>Module Tutor</b>	None e-		e-mail	None		:
Peer Reviewer Name None		None	e-mail		None	
Scientific Committee Approval Date			Version Number		1.0	

Relation with other Modules					
العلاقة مع المواد الدراسية الأخرى					
Prerequisite module QCE0021 Semester Two					
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	<ul> <li>Provide students with a comprehensive understanding of multivariable calculus concepts essential for civil engineering applications.</li> <li>Develop the ability to effectively apply partial derivatives and integrals to solve complex engineering problems.</li> <li>Facilitate mastery of transitioning between Cartesian and polar coordinate systems for practical and theoretical purposes.</li> <li>Enhance proficiency in graphing and interpreting functions within polar coordinate frameworks.</li> </ul>			
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<ul> <li>After successful completion of this module, students should be able to:</li> <li>Solve problems involving functions of several variables and partial derivatives.</li> <li>Apply the chain rule and constrained variables in mathematical computations.</li> <li>Compute double and triple integrals, including applications in polar coordinates.</li> <li>Analyze and interpret areas, lengths, and volumes using polar and Cartesian coordinate systems.</li> </ul>			
Indicative Contents المحتويات الإرشادية	Indicative content includes the following:  Part A: Exploration of functions of multiple variables, partial derivatives, and chain rule applications, [15 hrs]  Part B:Comprehensive study of multiple integrals and double integrals, [15 hrs]  Part C: Detailed examination of polar coordinates and their practical applications, [17 hrs]  Part D: Advanced exploration of engineering applications involving multiple integrals, [7 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 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 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 assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)			
المنهاج الاسبوعي النظري			
	Material Covered		
Week 1	Function of serval variables		
Week 2	Limits and Continuity for Multivariable Functions		
Week 3	Partial derivatives		
Week 4	Partial derivatives with constrained variables		
Week 5	The chain rule		
Week 6	Application on Partial derivatives		
Week 7	Multiple Integrals		
Week 8	Double integrals		

Week 9	Polar Coordinates	
Week 10	Equation Relation Polar and Cartesian Coordinates	
Week 11	Graphing in polar Coordinates	
Week 12	Area and length in polar coordinates	
Week 13	Application of Polar Coordinates	
Week 14	Triple integrals	
Week 15	Application on Multiple Integrals	
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				
	Available in the Library?			
Required Texts	<ul> <li>Finney, Weir, C.W. and Giordano, "Tomas Calculus", eleven teen Edition, 2000.</li> <li>Finney, Weir, C.W. and Giordano, "Tomas Calculus", fourteenth Edition, 2017</li> </ul>	No		
Recommended Texts	<ul> <li>- Haward, Bivens and Davis., "Calculus ", Pearson Education, Seven Edition, 2002.</li> <li>- James Stewart, "Calculus ", fifth Edition, 2020</li> </ul>	No		
Websites				

Grading Scheme مخطط الدر جات					
Group	Grade	التقدير	Marks (%)	Definition	
	A - Excellent	امتياز	90 - 100	Outstanding Performance	
Success	<b>B</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)	<b>D</b> - 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	