MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**حقوق الانسان والديمقراطية Human Rights and Democracy**			**Module Delivery**	
Module Type	**Basic**			☒**Theory** ☒**Lecture** ☐**Lab** ☐**Tutorial** ☐**Practical** ☐**Seminar**	
Module Code	**UOB104**				
ECTS Credits	**2**				
SWL (hr/sem)	**50**				
Module Level	1		**Semester of Delivery**	1	
Administering Department	Aeronautics		**College**	Engineering	
Module Leader	Hayder Zuhair Jasim		**e-mail**	h.alwaeli@uobaghdad.coeng.edu.iq	
Module Leader's Acad. Title	Assist. Professor		**Module Leader's Qualification**	Ph.D.	
Module Tutor	Hayder Zuhair Jasim		**e-mail**	h.alwaeli@uobaghdad.coeng.edu.iq	
Peer Reviewer Name	None		**e-mail**	none	
Scientific Committee Approval Date	01/09/2024		**Version Number**	1.0	

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

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	١. للتعريف بالديمقراطية ونشأتها وما المقصود بحقوق الانسان وكيفية ممارستها. ٢. مقارنة بين النظم الديمقراطية وما توفرها الديمقراطية من اجل ممارسة حقو ق الانسان بحرية دون قيود. ٣. التعريف بخصائص وسمات حقوق الانسان. ٤. توضيح الوثائق الدولية والمنظمات الدولية التي ارست مبادئ حقوق الانسان. ٥. التعرف على النظم الانتخابية التي تمارسها الدول في اختيار الحكومات الديمقراطية. ٦. التعرف على القوانين الدولية التي تحمي وتضمن ممارسة حقوق الانسان في المجتمعات كافة. ٧. المقارنة بين النظم الديمقراطية والنظم الدكتاتورية في تطبيق وممارسة حقوق الانسان ٨. تعريف ما حقوق المرأة وتوضيح المقصود بالتعايش السلمي.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	١. فهم ما تعني الديمقراطية وما هي حقوق الانسان. ٢. جعل الطالب يدرك اهمية السياق التاريخي وكيف تطورت الممارسات الشعبية من اجل ارساء نظام حكم ديمقراطي يكفل المساواة في الحقوق والالتزامات. ٣. معرفة الطالب بحقوقه الاساسية التي يمكن ان يمارسها بحرية ، والالتزامات التي يجب عليه اتباعها دون المساس بالنظام الديمقراطي. ٤. ارشاد الطالب الى ممارسة حقوقه حسب القوانين الدولية والدستور العراقي . ٥. تعليم الطالب كيفية ممارسة حقه في الانتخابات حسب نوع النظام المعتمد . ٦. جعل الطالب يدرك اهمية النظام الديمقراطي ودوره في حماية حقوق الانسان. ٧. ضمان ظهور جيل متعلم واعي يساهم في نشر حقوق الانسان في المجتمع . ٨. المساواة في الحقوق بين الجنسين في مختلف الممارسات الديمقراطية دون تميز. ٩. الوصول الى تطبيقات وممارسات مجتمعية تضمن التعايش السلمي في المجتمع الواحد.
Indicative Contents المحتويات الإرشادية	الديمقراطية وحقوق الانسان تتكون هذه المفردات من مادتين هما الديمقراطية وحقوق الانسان وهما حقلين مختلفين في المعنى والاختصاص والتطبيق ، لكن احدهما يكمل الاخر كونهما من ضمن العلوم الاجتماعية لا سيما حقل العلوم السياسية. فبدون النظام الديمقراطي لا يمكن ممارسة حقوق الانسان ولا يوجد لها ذكر اصلا ، وتكون مجهولة بالنسبة للمجتمعات التي تحكمها النظم الاستبدادية والاوتوقراطية تلك التي تقييد الحقوق والحريات. لذلك ستحدد لمادة الديمقراطية (25) ساعة. و ستحدد لحقوق الانسان (25) ساعة.

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	١. شرح معنى المفردات التي تتضمنها المادة من الاستاذ. ٢. اعطاء دور للطلبة لممارسة حقوقهم في ابداء الرأي من دون تعصب واحترام الرأي الاخر. ٣. تنظيم ممارسات داخل القاعات لمحاكاة تجربة انتخابية او تناول قضية معينة تحتاج وضع حلول مناسبة لها عن طريق تقسيم الطلبة الى مجموعات واعطاء ادوار لهم فيها. ٤. عرض محتويات فديو تساهم في كسر الروتين في القاء المحاضرة. ٥. القيام بزيارات ميدانية لأبرز المنظمات الراعية لحقوق الانسان كاللجنة الدولية لحقوق الانسان وفرع منظمة العفو الدولية في العراق والمفوضية العليا لحقوق الانسان ومؤسسات الدولة الاخرى. ٦. تكليف الطلبة بالعمل الميداني والتطوعي في رعاية حقوق الانسان كرعاية دور الايتام او دار كبار السن او دور المرأة، او المساهمة بفعالية مجتمعية توعوية ....الخ هدفها ارساء مبدأ التكافل الاجتماعي

والتعايش السلمي وتقوية الاواصر المجتمعية. ٧. تكليف الطلبة بعمل تقرير من اختياره من ضمن عدة مواضيع تعرض عليهم تكون قابلة للتطبيق في المجتمع او تعالج حالة انسانية معينة.	

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	33	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	2.2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	17	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	1.133
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**50**		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	2	20% (20)	4, 11	LO# 1,2,3, 4
	Assignments	2	10% (10)	5, 12	LO# 4, 5 , 8 ,9
	Projects / Lab.				
	Report	1	10% (10)	12	LO# 8, 9
Summative assessment	**Midterm Exam**	2hr	10% (10)	8	1-9
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	مفهوم الديمقراطية والتطور التاريخي لممارساتها في حضارة وادي الرافدين وادي النيل
Week 2	الديمقراطية في الحضارات القديمة الاخرى
Week 3	الديمقراطية في الاسلام والديانة المسيحية
Week 4	انواع الديمقراطية
Week 5	الانتخاب ونظمه

Week 6	امتحان
Week 7	معنى حقوق الانسان وابرز خصائصه
Week 8	التعريف بالقانون الدولي الانساني والقانون الدولي لحقوق الانسان
Week 9	زيارة ميدانية
Week 10	مصادر القانون الدولي لحقوق الانسان
Week 11	انواع حقوق الانسان والمواثيق الدولية لحقوق الانسان
Week 12	التجارب الحديثة لحقوق الانسان
Week 13	حقوق المرأة والتعايش السلمي
Week 14	المنظمات الرائدة لحقوق الانسان
Week 15	حقوق الانسان في الدستور العراقي
Week 16	امتحان

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	١- رياض عزيز هادي، حقوق الانسان تطورها –مضامينها- حمايتها ٢- مصادر متنوعة من الانترنت	Yes
Recommended Texts	صالح جواد الكاظم، علي غالب العاني، الانظمة السياسية، كلية القانون، بغداد، ط2 ، 2007	No
Websites		

Grading Scheme
مخطط الدرجات

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

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**حاسوب ١** **Computer science 1**			**Module Delivery**	
Module Type	Basic learning activities			**x Theory** **x Lecture** **x Lab** **x Tutorial** **☐ Practical** **☐ Seminar**	
Module Code	**UoB111**				
ECTS Credits	**1**				
SWL (hr/sem)	**75**				
Module Level	1		**Semester of Delivery**	1	
Administering Department	Architectural		**College**	Engineering	
Module Leader	Ahmed Isam Ali		**e-mail**	a.i.alkadhim@coeng.uobaghdad.edu.iq	
Module Leader's Acad. Title	Assistant lecturer		**Module Leader's Qualification**	M.Sc.	
Module Tutor	Ahmed Isam Ali		**e-mail**	a.i.alkadhim@coeng.uobaghdad.edu.iq	
Peer Reviewer Name	None		**e-mail**	none	
Scientific Committee Approval Date	[illegible]		**Version Number**	1.0	

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

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	1- Develop advanced proficiency in Microsoft Office applications for efficient document creation, spreadsheet management, and presentation design. 2- Cultivate digital literacy and internet fluency, covering web navigation, effective use of search engines, email communication, and fundamental computer network concepts.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1- Students will demonstrate proficiency in using Microsoft Word, Excel, and PowerPoint for creating, formatting, and presenting documents, spreadsheets, and slides. 2- Students will acquire the skills to navigate the internet, use search engines, understand URLs, and utilize web browsers for communication and collaboration. Additionally, they will demonstrate competence in email etiquette and formatting. 3- Students will gain proficiency in using Mendeley for academic research, including registering for an account, downloading and installing the desktop application, importing references, and properly citing sources using various citation styles (APA, MLA, Harvard).
Indicative Contents المحتويات الإرشادية	75 Hours of of students work included many of assaments and exams

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The subject will be presented to students through a specified series of lectures and tutorials assisted by notes. It will be underpinned by use of computer assisted packages, the learning element will be evaluated by a set of assignments on computer element and tests to ensure outcomes are achieved.

Student Workload (SWL) الحمل الدراسي للطالب محسوب ل ١٥ اسبوع			
Structured SWL (h/sem) الحمل الدرا سي المنتظم للطالب خلال الفصل	48	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	3
Unstructured SWL (h/sem) الحمل الدرا سي غير المنتظم للطالب خلال الفصل	27	**Unstructured SWL (h/w)** الحمل الدرا سي غير المنتظم للطالب أسبوعيا	2

Total SWL (h/sem) الحمل الدرا سي الكلي للطالب خلال الفصل	**75**

Module Evaluation تقييم المادة الدراسية					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	2	5% (5)	4, 11	LO# 1,2
	Assignments	2	10% (10)	5, 12	LO# 2,3
	Projects / Lab.				
	Report				
Summative assessment	**Midterm Exam**	2hr	15% (15)	8	1,2
	Final Exam	3hr	60% (60)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظر ي	
	Material Covered
Week 1	Introduction
Week 2	Basic Applications of Computer
Week 3	Computer Hardware and Software
Week 4	Basics of Operating System
Week 5	Microsoft word: Creating, editing, saving, and printing text documents
Week 6	Microsoft word: Using lists and styles
Week 7	Microsoft Excel: Spreadsheet basics
Week 8	Microsoft Excel: Working with functions and formulas
Week 9	Microsoft Power Point: Opening, viewing, creating, and printing slides
Week 10	Microsoft Power Point: Creating Professional Slide for Presentation
Week 11	Basics of Computer Networks
Week 12	Internet
Week 13	Communications & Collaboration
Week 14	Introduction to Mendeley
Week 15	Citation Guides: APA, MLA, Harvard, citing a website.
Week 16	Exam

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	"Microsoft Office 365: The Complete Guide" Author: Shelly Cashman Series ISBN: 978-0357126219 "Internet Basics for Beginners" Author: John Kinsella ISBN: 978-1119647780 "Mendeley: A Guide for Researchers" Author: Caroline Whitworth ISBN: 978-1784271384	Yes
Recommended Texts	Operating System Concepts" Authors: Abraham Silberschatz, Greg Gagne, Peter B. Galvin ISBN: 978-1118063330	Yes
Websites	https://support.microsoft.com/en-us	

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

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**الرياضيات Mathematics**			**Module Delivery**	
Module Type	[illegible]			**x Theory x Lecture ☐ Lab x Tutorial ☐ Practical ☐ Seminar**	
Module Code	**ARCH1122**				
ECTS Credits	**6**				
SWL (hr/sem)	**150**				
Module Level	1		**Semester of Delivery**	1	
Administering Department	Architectural		**College**	Engineering	
Module Leader	Ahmed Khudher Abdulridha		**e-mail**	ahmed.khudher@coeng.uobaghdad.edu.iq	
Module Leader's Acad. Title	Teacher		**Module Leader's Qualification**	Ph.D.	
Module Tutor	Ahmed Khudher Abdulridha		**e-mail**	ahmed.khudher@coeng.uobaghdad.edu.iq	
Peer Reviewer Name	None		**e-mail**	none	
Scientific Committee Approval Date	[illegible]		**Version Number**	1.0	

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

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	اعطاء الطالب فكرة عامة عن مادة الرياضيات كمبادئ أساسية لطالب في كلية الهندسة مع اضافة بعض التطبيقات الهندسية والتي يستفاد منها طالب الهندسة المعمارية في مراحله المتقدمة.. The aim of the subject is to provide the student with a general idea about mathematics as basic principles to the student of the College of Engineering, supported by some engineering applications which will benefit the student.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1- Apply all functions to the solution of engineering problems. 2- Apply algebra and trigonometry to solve engineering problems. 3- Solve basic engineering problems using mathematical models employing calculus.
Indicative Contents المحتويات الإرشادية	125Hours of of students work included many of assaments and exams

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The subject will be presented to students through a specified series of lectures and tutorials assisted by notes. It will be underpinned by use of computer assisted packages, the learning element will be evaluated by a set of assignments on computer element and tests to ensure outcomes are achieved.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	93	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	6
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	57	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	none
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**150**		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	2	5% (5)	4, 11	LO# 1,2,3, 4
	Assignments	2	10% (10)	5, 12	LO# 4, 5 , 8 ,9
	Projects / Lab.				
	Report				
Summative assessment	**Midterm Exam**	2hr	15% (15)	8	1-9
	Final Exam	3hr	60% (60)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Introduction
Week 2	Functions
Week 3	Trigonomtric Function
Week 4	Trigonomtric Function Inverse
Week 5	The Derivative
Week 6	The Derivative and applications
Week 7	Trigonomtric Function and application
Week 8	Trigonometric Function and application
Week 9	Trigonometric Function and application
Week 10	The Integration
Week 11	Infinit and finat Integration
Week 12	Infinit and finat Integration
Week 13	Type of Integrations
Week 14	Exponational function
Week 15	Logarithem and Nutral Logarithem
Week 16	Exam

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	Calculus: Essential Skills Practice Workbook with Full Solutions - Derivatives, Limits and Integrals 2022 Edition Calculus: Essential Skills Practice Workbook with Full Solutions - Derivatives, Limits and Integrals 2022 Edition	Yes
Recommended Texts	Advanced Engineering Mathematics – Erwin Kreyszig	Yes
Websites		

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

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

•	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	COMMUNICATION SKILLS FREEHAND 1			**Module Delivery**	
Module Type	CORE			☐ **Theory** ☒ **Lecture** ☐ **Lab** ☒ **Tutorial** ☒ **Practical** ☐ **Seminar**	
Module Code	ARCH1102				
ECTS Credits	5				
SWL (hr/sem)	125				
Module Level		1	**Semester of Delivery**		1
Administering Department		Arch	**College**		CEC
Module Leader	/		**e-mail**	/	
Module Leader's Acad. Title		/	**Module Leader's Qualification**		/
Module Tutor	None		**e-mail**	None	
Peer Reviewer Name		/	**e-mail**	/	
Review Committee Approval		[redacted]	**Version Number**		1.0

Relation with Other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	none		
Co-requisites module			
Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية			
Module Aims أهداف المادة الدراسية	The aim of this subject is the identification the student with the most important techniques used in the fundamentals of freehand drawing and the design process such as pencils, pens, colored pencils, watercolors, poster colors, and oil colors. 1. Developing the student's ability in the basics of selecting the suitable composition and color and feeling this ability. 2. Training the student's eye to recognize the tiny details in the tangible real world and to recognize the percentages, movements, shade and shadow, light and color. 3. Enabling the student to comprehend the items that he will use in the other subjects like design and architectural graphics. 4. The student, who has passed to the second stage, submits no more than 10 artistic works during the summer holiday which represent: a. A documentation of some monuments in Baghdad and the governorates. b. Copied drawings of some Iraqi and international buildings.		
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	**Cognitive goals:** 1. Building imagination for supporting their conceptual framework. 2. Building the skills and knowledge experiences in translating the student's ideas and architectural designs through the skill of drawing with multiple techniques and the ability to implement his design projects. 3. Develop their ability to put a design that meets reasonable costs and efforts **The skills goals special to the course:** 1. The student will be able to comprehend the items that he will use in the other subjects like design and architectural graphics. 2. The student will be able to recognize the tiny details in the tangible real world and to recognize the percentages, movements, shade and shadow, light and color 3. The student will be able to select the suitable composition and color and feel this ability. **Affective and value goals:** 1. Building imagination for supporting their conceptual framework in doing assignment & homework. 2. Building capacity to work with a team to integrated their efforts		

	with the others. **General and Transferable Skills (other skills relevant to employability and personal development):** 1. Building capacity to work with a team to integrated their efforts with the others. 2. Learning the students the project manager. 3. Learning the students drawing and designing programs.
Indicative Contents المحتويات الإرشادية	1. Lectures & tutorials (in-class drawing plans & sketches for the required project). 2. Reports & presentations (case studies, data & analyses for the required project). 3. Homework and Assignments. 4. In-class questions and Discussions (general and private criticism). 5. Extracurricular Activities. 6. Seminars 7. In- and Out-Class oral conservations. 8. Trips & site visits for a similar project that relates to the required project. 9. Tests and Exams.
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	Type something like: The main strategy that will be adopted in delivering this module is to developing the student's ability in the basics of selecting the suitable composition and color, Training the student's eye to recognize the tiny details in the tangible real world and to recognize the percentages, movements, shade and shadow, light and color. It will be achieved through academic lectures and intellectual discussions with students, submitting reports and assignments, field visits, and making architectural drawings.

Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	64	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	61	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	125		

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Drawings**	10	30% (30)	2,3,4,5, 6, 8,9,10, 13,14	LO # all
	Assignments	1	10% (10)	12	LO # 8,9,10
	Report	1	10% (10)	12	LO # 12
Summative assessment	**day-sketches**	3	30% (30)	7,11,15	LO # 3,4,5,6 LO # 8,9,10 LO #12,13,14
	Final projects	2	20% (20)	11,15	LO# all
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي النظري

	Material Covered
Week 1	- Identifying the materials of freehand drawing and their types and how to draw by using them with practice by the graphic pen HP to draw the straight, horizontal, oblique, and intersected lines, etc.
Week 2	- Practices of hand on how to use the circle and zigzag lines and how to combine them. - Homework: drawing 1
Week 3	- The stage of planning by graphite and training the student to draw cubes with outside multidirectional lines. - Homework: drawing 2
Week 4	- Principles of the perspective of the spherical, cylinder, and other geometrical shapes: spherical and cylindrical shapes and other geometrical shapes with individual exercises for several geometrical shapes and a technical perspective. - Homework: drawing 3
Week 5	- Shading by pencils (graphic) depending on the maneuvering of light. - Homework: drawing 4
Week 6	- Approximating and abstracting the free forms and bringing them to the closest known geometrical shape with drawing a perspective of free forms. - Homework: drawing 5
Week 7	- Drawing a still-life perspective in three forms or more with a compositional background. - Test: day-sketches 1
Week 8	- Training about using poster color with exercising colors' toning and their

	intensity. - Homework: drawing 6
Week 9	- Drawing composition by using poster colors with the use of white and black colors with another composition by using poster colors and concentrating on light and shade. - Homework: drawing 7
Week 10	- A lesson about the technologies used in materials (glass, wood, metal) still life drawing of various materials (cups, jars, dalat) - Homework: drawing 8
Week 11	- Final projects 1 - Test: day-sketches 2
Week 12	- Studying the perspective with simple exercise about three dimensional shapes in perspective, drawing geometrical perspective showing the depth of the drawing. - Assignments related to a lesson - Report related to the lesson.
Week 13	- Studying a perspective for a building in one vanishing point (parts from the elevation of the building) with using various drawing techniques through one source of light through which the depth of the perspective is shown by using the shades. - Homework: drawing 9
Week 14	- A lesson about the techniques used in drawing plants and trees (drawing a plant branch of a little number of leaves then drawing trees outside the drawing room. - Homework: drawing 10
Week 15	- Final projects 2 - Test: day-sketches 3
Week 16	-

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	- Basic educational resources and illustrations of models of building facades and others in specialization and among them - Study, Muhammad Abdallah and Adly Muhammad Abd. The general lassie of free hand drawing, Arab Academy Library, 1st Edition, 2011	Yes Yes
Recommended Texts	- Ernst Neufert, Architects' Data, 2012 - Francis D. K. Ching, Steven P. Juroszek, Architecture: Form, Space, and Order, 2004	Yes Yes

Websites	Different architectural websites. - Arch daily : https://www.archdaily.com/ - Arch h2o : https://www.arch2o.com/ - Arch space : https://thearchspace.com/ - Dezeen : https://www.dezeen.com/ - Architizer : https://architizer.com/ - أركين : https://www.arcign.com/projects/

APPENDIX:

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

Note:

NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	ARCHITECTURAL DESIGN AND GRAPHIC 1			**Module Delivery**	
Module Type	CORE			☒ **Theory** ☒ **Lecture** **Lab** ☒ **Tutorial** ☒ **Practical** ☒ **Seminar**	
Module Code	ARCH1101				
ECTS Credits	10				
SWL (hr/sem)	250				
Module Level		1	**Semester of Delivery**		1
Administering Department		Arch	**College**		CEC
Module Leader	Dr: Asmaa Sadeq Abdulkareem Al-Ani Dr: Amna Bassim		**e-mail**		asmaa.sadeq@coeng.uobaghdad.edu.iq amna.basim@coeng.uobaghdad.edu.iq
Module Leader's Acad. Title			**Module Leader's Qualification**		
Module Tutor	None		**e-mail**		None
Peer Reviewer Name		Dr. Ghada Al-slik	**e-mail**		ghada.alslik@coeng.uobag.edu.iq
Review Committee Approval		[illegible]	**Version Number**		[illegible]

Relation With Other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	**Semester**	\
Co-requisites module	None	**Semester**	\
Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية			
Module Aims أهداف المادة الدراسية	The architectural design course first introduce the basic 2D and 3D general design, moves to material and aspects of general design. Architectural space and human scale are introduced through a project. The aim is to prepare the student to enter the world of architecture intellectually, conceptually and practically as a basic working rule. Moreover, the subject aims at identifying the student with the concept of architecture by identifying the basic principles of design, composition, three dimensions, the human scale, the surroundings of the urban environment, etc., and developing the student's expressive language of those items. The subject, also, concentrates on developing the student's artistic and creative sense, the style of analytic and synthetic thinking, in addition to developing his awareness and sensation of the natural and built environment and to respect this environment starting from realizing and appreciating the classical urban environment and studying the presentational, plastic and compositional relationships of its elements and components.		
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. Freehand skills are developed beside architectural drawings, Graphics and presentation for communication their designs. 2. The student will be able design and draw by pencils. 3. The student will be able to recognize the significance of color and its relations with architecture. 4. The student will be able to abstract real objects to its architectural components 5. Learning how development their concepts into active design project that can be implemented in the reality. 6. Building imagination for supporting their conceptual framework in doing assignment & homework. 7. The student will be realizing volume to as a new variable in composition, space, mass and their expressive values. 8. The student will be able to realize the significant of the space in architecture and their types and its relation with human scale and		

	the circulation. 9. Building capacity to work with a team to integrated their efforts with the others. 10. Communication skills, students will be able to communicate with people related to architectural field and outside it, through written, oral and drawing skills. 11. The student will be able design and draw by different tools and materials. 12. Students will be able to face any problem in design, profession or study, in a creative intelligent way , and suggest types of innovations to previous outputs.
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. Part A – lecture –Theory part Quality of line, Principles of Composition, color in composition , Abstraction and composition, 3 D composition, and the space and human scale. Part B – practical part Graphic exercise, Principles of Composition exercises, A field visits. Color in composition exercises, Abstraction and composition exercise, 3 D composition exercise, and the space and human scale exercise.
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. It will be achieved through academic lectures and intellectual discussions with students, assignments, field visits, and presentation of design and graphic output in sheets, papers and models.

Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	150	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	10
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	100	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	6.6
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	250		

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment (40%)	**Projects (Final and pre final of Basic of design\ 2D composition point, line and surface Exercises abstract, and 3d**	6	12% (12)	,3,5,6,9	LO # 1-7
	Online Assignment (Homework of projects)	8-11	12% (12)	2,3,4,5,,8,10. 11,12	LO #1, 2, 3 and 4,5,6,7
	Lab (Classwork of projects)	4-6	6% (6)	2,3,4,5,,8,10. 11,12	LO # 1-7
	Day-sketch	2	10% (10)	5,8	
Summative as Mid exam (10%)	**Developing exercise of spaces**	2-4	10%	10,11,12	LO # 1-11
Summative assessment as a final exam (50%)	**Prelim – presentation**	1	10%	13	All
	Pre-final presentation	1	15%	14	All
	Final presentation	1	20%	15	All
	Final exam	1	5%	15	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي

	Material Covered
Week 1	**Basic of design\ point, line and surface – 2D composition** -- Introduction and how the semester will train the student through a collection of practices on the different qualities of line by using a pencil. Developing the student's expressionistic ability of drawing by using the tools or by freehand to reach different line qualities.
	- Classroom training and work: The student graphic Exercises in different graphic 2D presentation by expressing visual outcome of lines manifestation and surfaces.

Week 2	Presentation for the homework and the evaluation. And Training the student through the class work by a collection of practices on the different qualities of line by using a pencil. Developing the student's expressionistic ability of drawing by using the tools or by freehand to reach different line qualities. -Give the student graphic Exercises in pencil.
	presentation of exercise and explain Principles of 2D Composition -Identifying the basic fundamentals of the two dimensional design:, elements, basic fundamentals of composition and kinds of compositions.
Week 3	-Developing and training in classroom.
	Final Presentation for the homework and class work.
Week 4	**Abstraction with Color and texture exercise in 2D composition** - Presentation project of 2d composition and analytical discussion with students. + class work. - Identifying the basic fundamentals of the two dimensional design:, elements, basic fundamentals of composition and kinds of compositions.
	Presentation project and analytical discussion with students. + class work
Week 5	Prelim-presentation project and analytical discussion with students.
	-Pre-final- -presentation. + **first day sketch (1)**
Week 6	- final- -presentation. + lecture about 3d composition
	3D composition - Presentation and explain Principles of 3D Composition with reviewing all the previous principle compassion with explain the sense of structure. And class work.
Week 7	Presentation of homework and analytical discussion with students. Class work
	Presentation of homework and analytical discussion with students.+ class work.
Week 8	Prelim -Presentation of homework and analytical discussion with students.+c lass work.
	Pre- Final presentation of the project. + **second day sketch (2)**
Week 9	Final presentation of the project.
	\
Week 10	**Architectural space. The space, human scale, circulation, and function** Give lecture about architectural space. The space, human scale, circulation, and function. Applied Exercise as a studying about the human dimensions and concept stage

	of exercise about space. Give the students homework. Filed visit.
	- Developing the exercise and present it. And analytical discussion with students. + class work
Week 11	- Developing the exercise and present it. And analytical discussion with students. + class work
	Developing the exercise and present it. And analytical discussion with students. + class work
Week 12	- Developing the project and present it. And analytical discussion with students. About types of spaces +structure and material perception and meaning of it.
	-Prelim- presentation of project by Introducing the color and texture to the space.
Week 13	Pre-final presentation.
Week 14	Developing the Pre-final presentation.
Week 15	-final presentation.

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	-Ernst Neufert, Architects' Data, 2012 -Francis D. K. Ching, Steven P. Juroszek, Architecture: Form, Space, and Order, 2004	Yes
Recommended Texts	Recommended books and references (scientific journals, reports…): -Many local and international projects, and many examples -Annual -Architectural record	
Websites	Different architectural websites. -Arch daily : https://www.archdaily.com/ -Arch h2o : https://www.arch2o.com/ -Arch space : https://thearchspace.com/ -Dezeen : https://www.dezeen.com/ -Architizer : https://architizer.com/ - أركين : https://www.arcign.com/projects/	

APPENDIX:

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

Note:

NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information
معلومات المادة الدراسية

Module Title	PRINCIPLES OF ARCHITECTURE 1	**Module Delivery**	
Module Type	CORE	☒ **Theory** ☒ **Lecture** **Lab** **Tutorial** ☒ **Practical** ☒ **Seminar**	
Module Code	ARCH1103		
ECTS Credits	4		
SWL (hr/sem)	100		
Module Level	1	**Semester of Delivery**	1
Administering Department	Arch	**College**	Engineering
Module Leader	Lect: Ammar Salim lect:: Amna Bassim	**e-mail**	ammar.salim@coeng.uobaghdad.edu.iq amna.basim@coeng.uobaghdad.edu.iq
Module Leader's Acad. Title		**Module Leader's Qualification**	
Module Tutor	None	**e-mail**	None
Peer Reviewer Name	Dr. Gahda Al-Slik	**e-mail**	ghada.alslik@coeng.uobaghdad.edu.iq
Review Committee Approval	[illegible]	**Version Number**	[illegible]

Relation With Other Modules
العلاقة مع المواد الدراسية الأخرى

Prerequisite module	None	**Semester**	\
Co-requisites module	None	**Semester**	\

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	1. The subject aims to develop the abilities of analysis and criticism through establishing the necessary principles, reinforcing and studying the concepts of space, mass, and shape from different sides, acquainting with the most important critical discussions which tackled architecture as a mongrel subject. 2. Deepening the student's feeling of the design elements and principles. 3. The subjects also aims at the detailed explanation of the architectural and artistic trends and relating them to architecture, so that the influence of each of these artistic trends on architecture is clarified and in reverse starting from the classical trend of the Greeks and the Romans and ending with the new modern trend. 4. Supporting the architectural design lesson as one of the core lessons in the first stage through analysis and discussion of the practical exercises that are done by the student in a coherent way with the intellectual presentation of the lesson.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1- The student learns what is the architecture? And the basic concepts relate with architecture (form, space, place, concept, architectural composition,…) and what is the architecture according to the writings of Louis Khan, Karion, Antoniadis, … 2- The student will learn about architecture and its relationship to various human fields and other disciplines. 3- Enhancing the student's intellectual framework for the basic concepts that the student will deal with throughout his academic life. 4- The student learns what is the architect's characteristics and knowledge. 5- The student will learn the importance of place in architecture and its relation with environment. 6- The student will know the architectural trends and thoughts during the time (in theory and application).. 7- The student will learn the impact of technological development and its impact on architecture.
Indicative Contents المحتويات الإرشادية	**Indicative content includes the following.** •The concepts of architecture according to the writings of Louis Khan, Karion, Antoniadis. •The architect's characteristics and knowledge according to the writings of Vitruvius , Alberti, Altssop. •The principles of architectural compassion, its relationships, and design elements. The principles of design: superposition, similarity,

	differentiation, balance, proportionality, unity and harmony. •The perception of forms and space (types of forms, methods of producing forms) the space (types of spaces). •Viewing architecture according to its critics' intellectual variation: Louis Kahn Peter kolen Alvar Aalto, Broadbent, Zevi, Sarrinan, Ruskin, …etc., •The artistic trends in the nineteenth and twentieth centuries and relating them to architecture. •The architectural trends (in theory and application).
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	Type something like: The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. It will be achieved through academic lectures and intellectual discussions with students, submitting reports and assignments, field visits, and making architectural models.

Student Workload (SWL)
الحمل الدراسي للطالب

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	48	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	3
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	52	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	3.4
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	100		

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Quizzes**	3	25% (25)	4, 6,10	LO #1-,4,5
	Project	1	5% (5)	6	LO #4
	Assignments	1	5% (5)	10	LO # 1-5 and 6
	Report	1	5% (5)	11	LO # 1-5 and 6 ,7
Summative assessment	**Midterm Exam**	3 hr	10% (10)	7	LO # 1-5
	Final Exam	3hr	50% (50)		All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	**Material Covered** Introduction – General information about architecture and architects.
Week2	**Explain the concept of architecture and its relationship to human activity and other fields (1).**
Week 3	**The architecture and its relationship with other fields (2).** **-**the student will have Informed about the first quiz.
Week 4	**The architect's characteristics.** The student will complete a first quiz. The student will have Informed about the project.
Week 5	**-The architecture and the place and environment. (1)** - The student will have informed about a second quiz.
Week 6	**-The architecture and the place and environment. (2)** The student will complete a project. The student will complete a second quiz.
Week 7	**Mid-term Exam**
Week 8	**Line-time in architecture.** The student will have informed about an assignment.
Week 9	**The architectural thought during the history. (1)** **--**the student will have informed about a third quiz.
Week 10	**The architectural thought during the history. (2)** The student will complete an assessment. The student will complete a third quiz. The student will have informed about a report.
Week 11	**The development of technology and its impact on architecture**. The student will complete a report.
Week 12	**Seminar and discussion.**
Week 13	**Seminar and discussion.**
Week 14	**Preparatory Week**
Week 15	
Week 16	**Final Exam**

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	-لمحات من تاريخ العمارة والحركات المعمارية ورواداها- شيرين احسان شيرزاد -مبادئ في الفن والعمارة – شيرين أحسان شيرزاد	Yes Yes Yes

	-تكاملية الفن والعمارة عبر التاريخ-٢٠٢٢- أ.د.صباح فخر الدين م.هدى صباح فخر الدين	
Recommended Texts	Basic design principles of architecture\ Leonard S. Parker Hijun Yn	No
Websites	Different architectural websites. - Arch daily - Arch h2o - Arch space - Dezeen	

APPENDIX:

GRADING SCHEME مخطط الدرجات				
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Note:

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	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Water Resources Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information
معلومات المادة الدراسية

Module Title	**ARABIC LANGUAGE**		**Module Delivery**	
Module Type	**BASIC**		**Theory**	
Module Code	**UOB101**			
ECTS Credits	**2**			
SWL (hr/sem)	**50**			
Module Level	1	**Semester of Delivery**	2	
Administering Department	Arch	**College**		
Module Leader		**e-mail**		
Module Leader's Acad. Title	Lecturer	**Module Leader's Qualification**	MA	
Module Tutor	None	**e-mail**	None	
Peer Reviewer Name	Eman Hussien	**e-mail**	Eman.h.m@coeng.uobaghdad.edu.iq	
Review Committee Approval	01/09/2024	**Version Number**	1.0	

Relation With Other Modules
العلاقة مع المواد الدراسية الأخرى

Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	١. العمل على النهوض باللغة العربية والمحافظة عليها من الخطأ. ٢. أن يكتسب الطالب القدرة على استعمال اللغة استعمالاً صحيحاً في الاتصال بالآخرين عن طريق التحدث والكتابة والاستماع والقراءة، مما ييسر لهم أمورهم ويعينهم على قضاء حوائجهم ومصالحهم. ٣. أن يكتسب الطلبة القدرة على التعبير عن أنفسهم وما يقع تحت حواسهم نطقاً وكتابةً. ٤. أن يتزود الطالب بثروة لغوية عن طريق تزويدهم ببعض الألفاظ والتراكيب . ٥. مساعدة الطلبة على تمييز الأغلاط اللغوية الشائعة وإرشادهم الى تصويبها. ٦. تنمية الميل إلى القراءة والمطالعة لدى الطلبة. ٧. التعرف على مواطن الجمال في اللغة العربية وآدابها. ٨. أن يكتسب الطالب مهارات الاتصال بالتراث العربي وتحقيق التكامل بينه وبين مجالات الثقافة المختلفة. ٩. توظيف قواعد اللغة في القراءة والكتابة (من خلال تدريبات مرتبطة بالموضوعات المقترحة) .
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	١- حب الطالب للغة العربية والاعتزاز بها. ٢- تدريب الطلبة على سلامة النطق وحسن الإلقاء والتعبير بنبرات صوتية واضحة ، و تزويدهم بكثير من الألفاظ والتراكيب والجمل والأساليب التي تنمي ثروتهم اللغوية وتزيد ثقافتهم. ٣- تدريب الطلبة على كتابة الكلمات بصورة صحيحة ، وتثبيت صـــورها في أذهانهم، والقدرة على استعادة تلك الصور عند الكتابة. ٤- تمكن الطلبة من معرفة أكثر من خمسين خطأ شائعا ومعرفة تصويبها. ٥- معرفة الطلبة طريقة التفريق بين أنواع الهمزة الأولية والمتوسطة والمنتهية والقدرة غلى كتابتها بالشكل الصحيح دون الوقوع في الخطأ. ٦- تقويم ألسنة الطلبة، ووقايتهم من الخطأ، وتكوين عادات لغوية سليمة تمكنهم من استعمال الألفاظ والجمل بصورة صحيحة لا تذهب بجمال الكلام وعذوبته.

Indicative Contents المحتويات الإرشادية	نشأة اللغة العربية درس بيان أهمية اللغة العربية بصورة عامة وأهميتها لطلاب غير الاختصاص أقسام الكلام والمعرب والمبني من الأسماء والأفعال الأغلاط اللغوية همزة القطع والوصل رسم الهمزة المتوسطة والمتطرفة الحروف التي تزداد في الكتابة علامات الترقيم في اللغة العربية العدد ، قواعد كتابة العدد المبتدأ والخبر أنواع الجموع وما يلحق بها. قصيدة لشاعر قديم قصيدة لشاعر حديث أن وإن والفرق بينهما كتابة الظاء والضاد والتاء المربوطة والهاء
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	1) Lectures. 2) Tutorials. 3) Homework and Assignments. 4) Tests and Exams. 5) In-Class Questions and Discussions. 6) Extracurricular Activities. 7) Seminars. 8) In- and Out-Class oral conversations.

Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	33	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	2.2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	17	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	1.133
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	50		

Module Evaluation
تقييم المادة الدراسية

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

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي النظري

	Material Covered
Week 1	نشأة اللغة العربية
Week 2	درس بيان أهمية اللغة العربية بصورة عامة وأهميتها لطلاب غير الاختصاص
Week 3	أقسام الكلام والمعرب والمبني من الأسماء والأفعال
Week 4	همزة القطع والوصل
Week 5	رسم الهمزة المتوسطة والمتطرفة
Week 6	الأغلاط اللغوية الشائعة
Week 7	علامات الترقيم
Week 8	الحروف التي تزداد في الكتابة
Week 9	العدد، قواعد كتابة العدد
Week 10	أنواع الجموع وما يلحق بها
Week 11	ان المفتوحة والمكسورة
Week 12	المبتدأ والخبر
Week 13	قصيدة لشاعر قديم
Week 14	قصيدة لشاعر حديث
Week 15	كتابة الظاء والضاد والتاء المربوطة والهاء
Week 16	Final Exam

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	مصطفى التوني، الهمزة في اللغة العربية دراسة لغوية. سعد بن على بن محمد ، الفرق بين الضاد والظاء. اللغة العربية العامة لاقسام غير الاختصاص .عبد القادر أمين	Yes
Recommended Texts	يوسف عطا الطريفي الواضح في الاملاء وعلامات الترقيم محمد العدناني ،معجم الاغلاط اللغوية	No
Websites		

APPENDIX:

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

NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.



	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information
معلومات المادة الدراسية

Module Title	ENGLISH LANGUAGE I	**Module Delivery**	
Module Type	BASIC	☒ **Theory** ☒ **Lecture** **Lab** **Tutorial** **Practical** **Seminar**	
Module Code	UoB102		
ECTS Credits	2		
SWL (hr/sem)	50		
Module Level	UG I	**Semester of Delivery**	2
Administering Department	Arch	**College**	College of Engineering
Module Leader	Layth Muthanna Khaleel Fahmi	**e-mail**	dr.laythmuthana@coeng.uobaghdad.edu.iq
Module Leader's Acad. Title	Lecturer	**Module Leader's Qualification**	PhD.
Module Tutor	None	**e-mail**	None
Peer Reviewer Name		**e-mail**	
Review Committee Approval	1-9-2024	**Version Number**	

Relation With Other Modules
العلاقة مع المواد الدراسية الأخرى

Prerequisite module		**Semester**	
Co-requisites module		**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	The course aims to: 1. teach the students some basic grammatical forms, e.g., simple tenses(present simple, past simple and present continuous), and verb forms (the verb to be, can/can't, and I'd like) . 2. acquaint the students with new vocabulary items that they need in everyday life- food, sports, numbers, dates, travel, time, jobs, describing people and places, shopping, sightseeing, and saying how you feel. 3. develop the students' communicative linguistic skills: listening (improving students' ability to understand the main message of a text), reading (improving students' ability to comprehend longer texts), speaking (practicing the pronunciation and intonation of English, launching a topic and creating interest), and writing (writing about their best friends, a postcard, a short description of a town they know, and a description of a holiday) . 4. teach and familiarize the students with everyday English words, phrases and expressions like: survival skills (numbers, saying dates, the alphabet, saying prices, recognizing signs, and asking for directions), social skills (social expressions and greetings), and functional areas (making requests, going shopping, and saying how you feel)
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	At the end of the course, the students will: 1. learn and recognize some basic grammatical forms, e.g., simple tenses (present simple, past simple and present continuous), and verb forms (the verb to be, can/can't, and I'd like). 2. learn new vocabulary items that they need in everyday life- food, sports, numbers, dates, travel, time, jobs, describing people and places, shopping, sightseeing, and saying how you feel. 3. be able to listen and understand the main message of a text. 4. be able to read and comprehend longer texts. 5. be able to speak with the correct pronunciation and use the correct intonation of some English sentences and expressions, and be able to launch a topic and create interest. 6. be able to write short passages, e.g., about their best friends, a postcard,

	a short description of a town they know, and a description of a holiday. 7. learn how to use everyday English like: numbers, saying dates, the alphabet, saying prices, recognizing signs, and asking for directions. 8. learn some social expressions and greeting, making requests, going shopping, and saying how you feel
Indicative Contents المحتويات الإرشادية	**Indicative content includes the following:** 1. Grammar 2. Vocabulary 3. Skills (listening, reading, speaking and writing) 4. Everyday English
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	1. Learning depends mainly on academic lectures that are delivered inside the classroom enhanced by playing audio scripts, using power point presentations, as well as in-class questions and discussions. 2. Homework and Assignments. 3. Tests and Exams 4. Role-play to allow students to practice language 5. Presentations

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

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Quizzes**	2	10% (10)	4, 9	
	Home Assignments	1	10% (10)	10	
	Participation in questions and discussions	1	10% (10)	1-15	
	Class assignments	1	10% (10)	1-15	
Summative assessment	**Midterm Exam**	2 hr	10% (10)	10	
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي النظري

Week No.	Grammar	Vocabulary	Skills work	Everyday English
1.	Am/is/are, my/your This is….. 	How are you? What's this in English? Numbers 1-10	Speaking	Good morning
2.	He/she/they, his/her Questions	Countries Adjectives Nouns	Reading and speaking	Numbers 11-30
3.	Am/are/is Negatives Questions Short answers	Jobs Personal information	Reading and listening Role play	Special expressions (1)
4.	Possessive adjectives Has/has Adjective + noun	The family Describing a friend	Reading and writing	The alphabet On the phone Saying email addresses

5.	Present simple I/you/we/they A and an	Sports/Food/drinks Adjectives Verbs Language and nationalities	Listening Roleplay	How much is it? Numbers 1-100
6.	Present simple he/she Questions and negatives Adverbs of frequency	The time Verbs and nouns Verbs Nouns Words that go together	Speaking	Days of the week Prepositions of time
7.	Question words Pronouns This and that	Adjectives Opposite adjectives Places	Reading and writing Roleplay	Can I?
8.	There is/are…. Prepositions	Rooms and furniture In and out of town	Reading and vocabulary Listening and writing	Directions
9.	Was/were born Past simple – irregular verbs	Saying years People and jobs Irregular verbs Have, do, go	Listening and speaking Reading and speaking	When's your birthday?
10.	Past simple – regular and irregular Questions Negatives Ago	Weekend activities Time expressions Sports and leisure Play or go? Seasons	Speaking Listening and speaking Speaking and writing	Making conversation-showing interest Going sightseeing
11.	Can/can't Adverbs Requests and offers	Verbs Verb + noun Adjective + noun Opposite adjectives	Reading and listening	Everyday problems
12.	I'd like Some and any Like and would like	Shopping Food In a restaurant Roleplay	Listening Reading and speaking	Rolepaly Science all around
13.	Present continuous Present simple and present continuous	Colours Clothes Opposite verbs	Reading and listening	What's the matter?
14.	Future plans Revision	Transport Revision	Reading and speaking A mini autobiography	Social expressions (2)
15.	End-of-term exam			

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Textbook	• Textbook: New Headway Plus / Beginner by John and Liz Soars	Yes
Recommended Texts	• Oxford Learner's Dictionary	
Websites	• BBC Learning English	

APPENDIX:

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

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ملاحظة: هذا النموذج تم وضعه وتقديمه من قبل مديرية ضمان الجودة في وزارة التعليم العالي والبحث العلمي

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Digital Communication Computer1**			**Module Delivery**	
Module Type	**Basic learning activities**			**x Theory** **x Lecture** **x Lab** **☐Tutorial** **☐Practical** **☐Seminar**	
Module Code	**ARCH1207**				
ECTS Credits	**4**				
SWL (hr/sem)	**100**				
Module Level	1		**Semester of Delivery**	2	
Administering Department	Architectural		**College**	Engineering	
Module Leader	Dr. Aya Riad		**e-mail**	aya.r@coeng.uobaghdad.edu.iq	
Module Leader's Acad. Title	Teacher		**Module Leader's Qualification**	Ph.D.	
Module Tutor			**e-mail**		
Peer Reviewer Name	None		**e-mail**	none	
Scientific Committee Approval Date	1/9/2024		**Version Number**	2.0	

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

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	The aim of this course is to provide students with a comprehensive understanding of AutoCAD software, equipping them with the necessary skills to create, modify, and manage 2D engineering drawings. Emphasis will be placed on the use of layers, block creation, dimensioning, and annotation in technical drawings. The course also encourages the development of problem-solving and critical thinking skills, while promoting effective file management, version control, and backup practices. Ultimately, the course prepares students for the professional application of AutoCAD in engineering design and drafting projects.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	Upon completion of this course, students will be able to efficiently navigate the AutoCAD interface and utilize its tools to create and modify 2D engineering drawings. They will demonstrate proficiency in designing basic shapes, geometric constructions, and complex 2D designs, while effectively applying layers, block creation, dimensioning, and annotations. Students will also develop problem-solving and critical thinking skills in engineering design, manage and organize drawing files, and understand the importance of version control and backup practices. Ultimately, they will be prepared to apply AutoCAD in professional design and drafting contexts.
Indicative Contents المحتويات الإرشادية	The course requires a total of 100 hours of student work, including time spent on assessments and exams.

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The subject will be delivered through a series of lectures and lab sessions, supported by notes. The learning elements will be evaluated by a set of in-class assignments and tests to ensure that the outcomes are achieved.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	63	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	none
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	37	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	none
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**100**		

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Quizzes**	5	5% (5)	3, 5, 7, 10, 12	LO# 1,2,3, 4
	Assignments	3	5% (5)	4, 8, 14	LO# 4, 5, 8 ,9,11,13
	Projects / Lab.	3	5% (5)	2, 6, 11	LO# 4, 5, 8 ,9,11,13
	Report				
Summative assessment	**Midterm Exam**	2hr	40% (40)	8	1-9
	Final Exam	3hr	60% (60)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي النظري

	Material Covered
Week 1	Introduction to AutoCAD
Week 2	Basic Drawing Techniques
Week 3	Basic Drawing Techniques
Week 4	Working with Layers and Properties
Week 5	Working with Layers and Properties
Week 6	Modifying and Editing Objects
Week 7	Modifying and Editing Objects
Week 8	Midterm Review and Exam
Week 9	Modifying and Editing Objects
Week 10	Dimensions and Annotations
Week 11	Dimensions and Annotations
Week 12	Working with Blocks
Week 13	Working with Blocks

Week 14	File Management
Week 15	File Management
Week 16	Exam

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	-" AutoCAD and Its Applications Basics by Terence M. Shumaker"	Yes
Recommended Texts		Yes
Websites		

Grading Scheme
مخطط الدرجات

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

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	COMMUNICATION SKILLS FREEHAND 2			**Module Delivery**	
Module Type	CORE			☐ **Theory** ☒ **Lecture** ☐ **Lab** ☒ **Tutorial** ☒ **Practical** ☐ **Seminar**	
Module Code	ARCH1202				
ECTS Credits	3				
SWL (hr/sem)	75				
Module Level	1		**Semester of Delivery**	2	
Administering Department	Arch		**College**	CEC	
Module Leader	/		**e-mail**	/	
Module Leader's Acad. Title	/		**Module Leader's Qualification**	/	
Module Tutor	None		**e-mail**	None	
Peer Reviewer Name	/		**e-mail**	/	
Review Committee Approval	[redacted]		**Version Number**	1.0	

<table>
<tr><th colspan="4">Relation with Other Modules
العلاقة مع المواد الدراسية الأخرى</th></tr>
<tr><td>Prerequisite module</td><td>Communication Skills Freehand 1</td><td>Semester</td><td>1</td></tr>
<tr><td>Co-requisites module</td><td>None</td><td></td><td></td></tr>
<tr><th colspan="4">Module Aims, Learning Outcomes and Indicative Contents
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية</th></tr>
<tr><td>Module Aims
أهداف المادة الدراسية</td><td colspan="3">The aim of this subject is the identification the student with the most important techniques used in the fundamentals of freehand drawing and the design process such as pencils, pens, colored pencils, watercolors, poster colors, and oil colors.
1. Developing the student's ability in the basics of selecting the suitable composition and color and feeling this ability.
2. Training the student's eye to recognize the tiny details in the tangible real world and to recognize the percentages, movements, shade and shadow, light and color.
3. Enabling the student to comprehend the items that he will use in the other subjects like design and architectural graphics.
4. The student, who has passed to the second stage, submits no more than 10 artistic works during the summer holiday which represent:
a. A documentation of some monuments in Baghdad and the governorates.
b. Copied drawings of some Iraqi and international buildings.</td></tr>
<tr><td>Module Learning Outcomes
مخرجات التعلم للمادة الدراسية</td><td colspan="3">Cognitive goals:
1. Building imagination for supporting their conceptual framework.
2. Building the skills and knowledge experiences in translating the student’s ideas and architectural designs through the skill of drawing with multiple techniques and the ability to implement his design projects.
3. Develop their ability to put a design that meets reasonable costs and efforts
The skills goals special to the course:
1. The student will be able to comprehend the items that he will use in the other subjects like design and architectural graphics.
2. The student will be able to recognize the tiny details in the tangible real world and to recognize the percentages, movements, shade and shadow, light and color
3. The student will be able to select the suitable composition and color and feel this ability.
Affective and value goals:
1. Building imagination for supporting their conceptual framework in doing assignment & homework.
2. Building capacity to work with a team to integrated their efforts</td></tr>
</table>

	with the others. **General and Transferable Skills (other skills relevant to employability and personal development):** 1. Building capacity to work with a team to integrated their efforts with the others. 2. Learning the students the project manager. 3. Learning the students drawing and designing programs.
Indicative Contents المحتويات الإرشادية	1. Lectures & tutorials (in-class drawing plans & sketches for the required project). 2. Reports & presentations (case studies, data & analyses for the required project). 3. Homework and Assignments. 4. In-class questions and Discussions (general and private criticism). 5. Extracurricular Activities. 6. Seminars 7. In- and Out-Class oral conservations. 8. Trips & site visits for a similar project that relates to the required project. 9. Tests and Exams.
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	Type something like: The main strategy that will be adopted in delivering this module is to developing the student's ability in the basics of selecting the suitable composition and color, Training the student's eye to recognize the tiny details in the tangible real world and to recognize the percentages, movements, shade and shadow, light and color. It will be achieved through academic lectures and intellectual discussions with students, submitting reports and assignments, field visits, and making architectural drawings.

Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	49	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	26	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	75		

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Drawings**	10	30% (30)	2,3,4,5, 7,8, 11,12,13,14	LO # all
	Assignments	1	5% (5)	10	LO # 10
	Report	1	5% (5)	10	LO # 7,8
Summative assessment	**day-sketches**	3	30% (30)	6,9,15	LO # 3,4,5 LO # 7,8 LO # 11,12,13,14
	Final projects	2	30% (30)	9,15	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي النظري

	Material Covered
Week 1	- Distinguishing various areas by color tunes
Week 2	- Learn a balance between color tuns - Homework: drawing 1
Week 3	- Perspective of a building of two vanishing points with the drawing of the department of surveying from the ground level. - Homework: drawing 2
Week 4	- Perspective with two vanishing points (continuing the previous drawing) - Homework: drawing 3
Week 5	- Interior perspective with two vanishing points. - Homework: drawing 4
Week 6	- Test: day-sketches 1
Week 7	- Perspective of high buildings of three vanishing points (the University Presidency Building) - Homework: drawing 5
Week 8	- Quick sketches stage / drawing two quick sketches or more immunized for two small buildings with other exercises together with studying the surrounding landscape and emphasizing - Homework: drawing 6

Week 9	- Final projects 1 - Test: day-sketches 2
Week 10	- The stage of the ink pen, studying the drawing techniques by ink pens. - Assignments related to a lesson - Report related to the lesson.
Week 11	- Studying how to shade intersecting lines, scatter, and dots, together with drawing many tree leaves differing in shape, size, and shading - Homework: drawing 7
Week 12	- Drawing perspective for a building in one disappearing point and two points in ink pen with shading. - Homework: drawing 8
Week 13	- Drawing interior perspective in ink pen with shading. - Homework: drawing 9
Week 14	- Sketching of several kinds of trees (3 kinds) and confirming the differentiation of the kinds. - Homework: drawing 10
Week 15	- Final projects 2 - Test: day-sketches 3
Week 16	-

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	- Basic educational resources and illustrations of models of building facades and others in specialization and among them - Study, Muhammad Abdallah and Adly Muhammad Abd. The general lassie of free hand drawing, Arab Academy Library, 1st Edition, 2011	Yes Yes
Recommended Texts	- Ernst Neufert, Architects' Data, 2012 - Francis D. K. Ching, Steven P. Juroszek, Architecture: Form, Space, and Order, 2004	Yes Yes
Websites	Different architectural websites. - Arch daily : https://www.archdaily.com/ - Arch h2o : https://www.arch2o.com/ - Arch space : https://thearchspace.com/ - Dezeen : https://www.dezeen.com/ - Architizer : https://architizer.com/ - أركين : https://www.arcign.com/projects/	

APPENDIX:

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

NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information
معلومات المادة الدراسية

Module Title	ARCHITECTURAL DESIGN - GRAPHICS 2	**Module Delivery**	
Module Type	CORE	☒ **Theory** ☒ **Lecture** **Lab** **Tutorial** ☒ **Practical** **Seminar**	
Module Code	ARCH1201		
ECTS Credits	10		
SWL (hr/sem)	250		
Module Level	UGI	**Semester of Delivery**	2
Administering Department	Arch	**College**	COG
Module Leader	Dr. Asmaa Sadeq Al-Ani Dr. Amna Basim	**e-mail**	asmaa.sadeq@coeng.uobaghdad.edu.iq amna.basim@coeng.uobaghdad.edu.iq
Module Leader's Acad. Title	Lecturer Lecturer	**Module Leader's Qualification**	Ph.D. Ph.D.
Module Tutor	None	**e-mail**	None
Peer Reviewer Name	Dr. Ghada Al-Slik	**e-mail**	ghada.alslik@coeng.uobaghdad.edu.iq
Review Committee Approval	[illegible]	**Version Number**	[illegible]

Relation With Other Modules
العلاقة مع المواد الدراسية الأخرى

Prerequisite module	Architectural Design and Graphic 1	**Semester**	1
Co-requisites module	None	**Semester**	\

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	This course of architectural design and graphics will be have a project introducing function and basic structural knowledge, ending with a whole architectural design, with inside and outside spaces and specific functions of small areas. The aim is to prepare the student to enter the world of architecture intellectually, conceptually and practically as a basic working rule. Moreover, the subject aims at identifying the student with the concept of architecture by identifying the basic principles of design, composition, three dimensions, the human scale, the surroundings of the urban environment, etc., The aim is also to develop the student's expressive language of those items. The subject, also, concentrates on developing the student's artistic and creative sense, the style of analytic and synthetic thinking, in addition to developing his awareness and sensation of the natural and built environment and to respect this environment starting from realizing and appreciating the classical urban environment and studying the presentational, plastic and compositional relationships of its elements and components.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. The student will learn the basic structural knowledge and the function in simple space. 2. The student will learn a whole architectural design, with inside and outside spaces and specific functions of small areas. 3. Freehand skills are developed beside architectural drawings, Graphics and presentation for communication their designs. 4. Building imagination for supporting their conceptual framework. 5. Develop their ability to put design that meets reasonable costs and efforts. 6. The student will be able design and draw by different tools and materials. 7. Building the capacity to work with a team to integrated their efforts with the others. 8. Students will be able to face any problem in design, profession or study, in a creative intelligent way, and suggest types of innovations to previous outputs. 9. Communication skills. Students will be able to communicate with people related to architectural field, through written, oral and drawing skills or digital skills.

Indicative Contents المحتويات الإرشادية	Indicative content includes the following. Part A – lecture –Theory part - A project introducing function and basic structural knowledge. - A whole architectural design, with inside and outside spaces and specific functions of small areas. Part B – practical part - The applied exercise of a project introducing function and basic structural knowledge. - The applied exercise of a whole architectural design, with inside and outside spaces and specific functions of small areas.
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. It will be achieved through academic lectures and intellectual discussions with students, exercises, field visits, and making architectural models and sheets.

Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	155	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	10.3
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	95	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	6.3
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	250		

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative Assessment	**Projects (Final of 1st project)**	1	9% (9)	4	LO # 1-6
	Online Assignment (Homework of both projects)	7	16%(16)	2, 3 ,6 ,7, 8	LO # 1-6, 8 and 9
	Lab (Classwork of both projects)	3	4% (4)	1, 2, 5	LO # 1-6
	Reports (Individual & Group Studies)	2	3% (3)	2, 5	LO # 8, 9
	Day sketch exams	2	8% (8)	6, 8	LO # 1-6, 8 and 9
Mid Exam	**(Development of 2nd project)**	3	10% (10)	8, 9, 10	All
Summative Assessment	**Pre-final presentation**	1 (can be 2)	20% (20)	11,12	All
	Final presentation	1	25% (25)	13, 14	All
	Final Exam	1	5% (5)	15	All
Total Assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي

	Material Covered
Week 1	**FORMATIVE ASSESSMENT:** **FIRST PROJECT: <u>A project introducing function and basic structural knowledge</u>.** -Presenting Interior models, explaining the land plan, and introducing the main features of interior space (according to human use and perception) and through standard drawings. - Studying the human scale, furniture and function.
Week 2	-Starting with concept, or choosing a case of interior design and analyzing and documenting it. -Applying exercises to develop concept stage or to improve the design of a chosen case. -Using the production technology such as pencils, color, or collage as well as making 3d models of it to facilitate the idea. (Class work & Home work) -Developing the design concept or decision.

Week 3	-Developing the design through presenting plans and sections with different technics, and developing presentation for exercises. (Class work & Home work) - Analytical discussion with students.
Week 4	Final- presentation of exercise of the interior space exercise- (sheets & model) -Analytical discussion with students.
Week 5	**SECOND PROJECT: <u>A whole architectural design, with inside and outside spaces and specific functions of small areas.</u>** -Introducing the project and explaining its functional requirements and expressional meanings, as well as structural options. -Starting a group work study which includes: - -Studying the location and the various environmental effects and contexts. - Studying the activity thoroughly from the functional aspects and the expressive and symbolic requirements - A field visit
Week 6	- Developing of group Study and analytical discussions. -Final submission of group study - Day sketch no.1
Week 7	-Starting the first architectural concept (mainly by 3d models and sketches) -Discussions, and analytical criticism of architectural concept and how to crystallize it.
Week 8	- Formulating and developing the design concept - Introducing architectural drawings of the project (mainly plans and necessary sections) - Day sketch no.**2**
Week 9	**MID EXAM:** **PRELIMINARY OF PROJECT STAGE:** -Developing the exercise (model & architectural drawings) - Introducing efficient sections and elevations of project - Individual criticism and developing the concept
Week 10	-Developing the exercise and improving architectural drawings (plans, sections, elevation) - Individual criticism and developing the concept
Week 11	**SUMMATIVE ASSESSMENT:** **PREFINAL OF PROJECT STAGE:** Perfecting the architectural drawings, and preparation of Pre-final presentation (It's an option to submit half of the requirements of pre-final)
Week 12	Pre-final presentation (Or the second half of the requirements of pre-final)
Week 13	**FINAL OF PROJECT STAGE:** Preparation for final presentation. Choosing the efficient presentation techniques and preparing the panorama.
Week 14	Final presentation
Week 15	**FINAL EXAM**

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	○ Architects' Data /Ernst Neufert ○ Architectural Graphic Standards ○ Architecture: Form, Space, and Order/ F. Ching	Yes
Recommended Texts	○ Architectural Composition/R. Krier ○ Architectural Graphics/ F. Ching ○ Interior Design Illustrated/F. Ching ○ Design Strategies in Architecture: An Approach to the Analysis of Form/ G. Baker ○ Design and Analysis/ B. Leupen ○ Analysing Architecture/ S. Unwin ○ As well as many text that are available in (scientific journals, reports, local and international projects)	Yes
Websites	Different architectural websites. -Prinest: https://www.pinterest.com/aminaalghailani/new-house-design/ -Arch daily : https://www.archdaily.com/ -Arch h2o : https://www.arch2o.com/ -Arch space : https://thearchspace.com/ -Dezeen : https://www.dezeen.com/ -Architizer : https://architizer.com/ - أركين : https://www.arcign.com/projects/	

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Fail Group (0 – 49)	**FX** – Fail	مقبول بقرار	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required
Note:				

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ملاحظة: هذا النموذج تم وضعه وتقديمه من قبل مديرية ضمان الجودة في وزارة التعليم العالي والبحث العلمي

	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	PRINCIPLES OF ARCHITECTURE II			**Module Delivery**	
Module Type	CORE			☒ **Theory** ☒ **Lecture** ☐ **Lab** ☐ **Tutorial** ☐ **Practical** ☒ **Seminar**	
Module Code	ARCE1203 4				
ECTS Credits	3				
SWL (hr/sem)	75				
Module Level	1		**Semester of Delivery**	2	
Administering Department	Arch		**College**	Engineering	
Module Leader	Ammar Salim		**e-mail**	ammar.salim@coeng.uobaghdad.edu.iq	
Module Leader's Acad. Title	Lecturer		**Module Leader's Qualification**	Master Degree	
Module Tutor	Amal Fadhil		**e-mail**	amal.fadhil@coeng.uobaghdad.edu.iq	
Peer Reviewer Name	Prof. Dr. Ghada Al-Slike		**e-mail**	Ghada.alslik@coeng.uobaghdad.edu.iq	
Review Committee Approval	[illegible]		**Version Number**	2.0	

Relation With Other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	Principles of Architecture I	**Semester**	1
Co-requisites module		**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	1. The subject aims to develop the abilities of analysis and criticism through establishing the necessary principles, reinforcing and studying the concepts of space, mass, and shape from different sides, and acquiring the most important critical. 2. The subjects also aim at a detailed explanation of the artistic trends in the 19th and 20th centuries and relate them to architecture, so that the influence of each of these artistic trends on architecture is clarified and in reverse starting from the Late 19th Century to the present. 3. Supporting the architectural design lesson as one of the core lessons in the first stage through analysis and discussion of the practical exercises that are done by the student coherently with the intellectual presentation of the lesson.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. The student learns about art and Architecture in the Late 19th Century 2. The student will know the modernism in Art and Architecture, international style – the pioneers of architecture: Frank Lloyd Wright, Le Corbusier, Meis Van Dru.., etc. 3. The student understands the architectural principle of Postmodernism and Late 20th-Century Movements 4. The student Learn the famous Contemporary Trends in art and architecture
Indicative Contents المحتويات الإرشادية	**Indicative content includes the following.** Part 1: Art and Architecture in the Late 19th Century • key art movements and architectural styles of the late 19th century, including Realism, Impressionism, and Art Nouveau Part 2: Modernism in Art and Architecture • Exploration of key principles and characteristics of Modernism, including functionalism, simplicity, and the rejection of ornamentation Part 3: Postmodernism and Late 20th-Century Movements • Exploration of key principles and characteristics of Postmodernism, including eclecticism, historicism, and irony Part 4: Contemporary Trends and Developments • Exploration of diverse styles, movements, and approaches, including Neo-Expressionism, Deconstructivism, and Digital Architecture
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. It will be achieved through academic lectures and intellectual discussions with students, submitting reports and assignments, field visits, and making architectural models.

Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	48	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	3
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	27	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	1.7
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	75		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	2	20% (20)	5, 11	LO # 3 and 11
	Assignments	1	5% (5)	3-5	LO # 3 and 11
	Projects/model	1	5% (5)	6-8	All
	Report	1	10% (10)	11-12	LO # 11
Summative assessment	**Midterm Exam**	2 hr.	10% (10)	8	LO # 1-6
	Final Exam	3 hr.	50% (50)	14	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	- Introductions: Definitions and terms. - **Part 1: Art and Architecture in the Late 19th Century** - Introduction to key art movements and architectural styles of the late 19th century, including Realism, Impressionism, and Art Nouveau
Week 2	- The most famous architectural styles in the late 19th century - The most famous architects of the late 19th century
Week 3	- **Part 2: Modernism in Art and Architecture** - Introduction to the Modernist movement in art and architecture - Exploration of key principles and characteristics of Modernism, including functionalism, simplicity, and the rejection of ornamentation - **Give an assignment to the student**

Week 4	- Analysis of iconic Modernist buildings and artworks from the early 20th century, such as the Bauhaus School and works by artists like Pablo Picasso and Piet Mondrian
Week 5	- Give the student a quiz. - Discuss the assignment
Week 6	- **Part 3: Postmodernism and Late 20th-Century Movements** - Overview of the Postmodernist movement in art and architecture as a reaction against Modernism - Exploration of key principles and characteristics of Postmodernism, including eclecticism, historicism, and irony - **Give the Project to the student**
Week 7	- Analysis of iconic Postmodernist buildings and artworks from the late 20th century
Week 8	- Mid-term Exam - The presentation for the student's project, with Critical analytical debate.
Week 9	- **Part 4: Contemporary Trends and Developments** - Exploration of diverse styles, movements, and approaches, including Neo-Expressionism, Deconstructivism, and Digital Architecture - **Give the student homework as a report about one of the architects**
Week 10	- Analysis of contemporary architectural projects and artworks that reflect current social, cultural, and technological contexts
Week 11	- Give the student a quiz. - Group critique session where students present and discuss their report.
Week 12	- Review of key concepts and developments covered throughout the course
Week 13	- The preparatory week before the Final Exam
Week 14	- Final Exam

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	-مبادئ في الفن والعمارة – شيرين أحسان شيرزاد -تكاملية الفن والعمارة عبر التاريخ-٢٠٢٢- أ.د.صباح فخر الدين م.هدى صباح فخر الدين Architecture: Form, Space and Order: Francis D.K.Ching	Yes Yes Yes
Recommended Texts	Basic design principles of architecture\ Leonard S. Parker Hijun Yn	No No

	The Principles of Architectural Composition: Howard Robertson	
Websites	Different architectural websites. - Arch daily : https://www.archdaily.com/ - Arch h2o : https://www.arch2o.com/ - Arch space : https://thearchspace.com/ - Dezeen : https://www.dezeen.com/ - Architizer : https://architizer.com/ - أركين : https://www.arcign.com/projects/	

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	F – Fail	راسب	(0-44)	Considerable amount of work required
Note:				
NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.				



	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	PHYSICS / BUILDING MATERIALS			**Module Delivery**	
Module Type	CORE			☒ **Theory** ☒ **Lecture** **Lab** **Tutorial** **Practical** ☒ **Seminar**	
Module Code	ARCE1204				
ECTS Credits	6				
SWL (hr/sem)	150				
Module Level		1	**Semester of Delivery**		2
Administering Department		Arch	**College**		Engineering
Module Leader	/		**e-mail**		/
Module Leader's Acad. Title		/	**Module Leader's Qualification**		/
Module Tutor	None		**e-mail**		None
Peer Reviewer Name		/	**e-mail**		/
Review Committee Approval		[illegible]	**Version Number**		1.0

Relation With Other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	**Semester**	
Co-requisites module	Building construction 1	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	The subject is identifying the First year students in the Department of Architectural Engineering with the different building materials used locally and internationally together with concentrating on the local building materials and the related building works (bonding and setting up these materials together). The curriculum is sequenced through two academic terms as the following:.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1- Identifying the local and international building materials / determining the effective factors on the quality of the materials and the methods of selecting them. 2- The student will learn constructional concepts / walls, piers, partitions / foundations / floors, ceilings. 3- The student will learn Building by bricks / types of bricks / uses of bricks in the building processes / binding by bricks and seaming. 4- The student will learn Building by stone / kinds of stones / types of stone walls / joints in bonding stone masses. 5- The student will learn Building by concrete masses (blocks). 6- The student learn Various bonding materials used in bonding blocks and building units in walls / defining them / their characteristics / their kinds. 7- Building imagination for supporting their conceptual framework. 8- Learning how development their concepts into active design project that can be implemented in the reality. 9- Develop their ability to put design that meets reasonable costs and efforts.
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. the local and international building materials, constructional concepts / walls, piers, partitions / foundations / floors, ceilings, bricks / types of bricks / uses of bricks in the building processes / binding by bricks and seaming. stone / kinds of stones / types of stone walls / joints in bonding stone masses, concrete masses (blocks). Various bonding materials used in bonding blocks and building units in walls

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	Type something like: The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. It will be achieved through academic lectures and intellectual discussions with students, submitting reports and assignments, field visits, and making architectural models.

Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	93	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	6
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	57	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	3,8
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	150		

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Quizzes**	2	10% (10)	4, 15	LO #1, 2, 10 and 11
	Assignments	1	10% (10)	2	LO # 3, 4, 6 and 7
	Seminar	2	20% (10)	7,14	All
Summative assessment	**Midterm Exam**	3 hr	10% (10)	8	LO # 1-7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Identifying the local and international building materials / determining the effective factors on the quality of the materials and the methods of selecting them
Week 2	Constructional concepts / walls, piers, partitions / foundations / floors, ceilings Assignment 1
Week 3	Building by bricks / types of bricks /

Week 4	Building by bricks / uses of bricks in the building processes / binding by bricks and seaming. Quiz 1
Week 5	Building by stone / kinds of stones / types of stone walls / joints in bonding stone masses
Week 6	Building by concrete masses (blocks)
Week 7	Seminar 1
Week 8	**Mid exam**
Week 9	Various bonding materials used in bonding blocks and building units in walls / defining them / their characteristics / their kinds.
Week 10	Wood / its uses in building / its constructional properties / its defects / wood bearing walls/ timbers (framing)
Week 11	Iron and steel / their uses in building / their constructional properties / structural systems
Week 12	Finishing's materials and works / the materials used and the finishing works of exterior and interior wall / the materials used and the finishing works of exterior and interior floors
Week 13	Methods of heat transfer / the treatments of the thermal insulation in buildings / fire resisting quiz 2
Week 14	seminar 2
Week 15	**Preparatory Week**
Week 16	**Final Exam**

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	- Ernst Neufert, Architects' Data, 2012 - Francis D. K. Ching, Steven P. Juroszek, Architecture: Form, Space, and Order, 2004 Building construction تركيب المباني – عاطف السهيري	Yes
Recommended Texts		No
Websites	Different architectural websites. -Arch daily : https://www.archdaily.com/ -Arch h2o : https://www.arch2o.com/ -Arch space : https://thearchspace.com/ -Dezeen : https://www.dezeen.com/ -Architizer : https://architizer.com/ - أركين : https://www.arcign.com/projects/	

APPENDIX:

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

NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information
معلومات المادة الدراسية

Module Title	ENGLISH LANGUAGE II	**Module Delivery**	
Module Type	BASIC	☒ **Theory** **Lecture** **Lab** **Tutorial** **Practical** **Seminar**	
Module Code	UOB202		
ECTS Credits	2		
SWL (hr/sem)	50		

Module Level	UGII	**Semester of Delivery**	3
Administering Department	Arch	**College**	CEC
Module Leader	Layth Muthanna Khaleel Fahmi	**e-mail**	dr.laythmuthana@coeng.uobaghdad.edu.iq
Module Leader's Acad. Title	Lecturer	**Module Leader's Qualification**	PhD.
Module Tutor	None	**e-mail**	None
Peer Reviewer Name		**e-mail**	
Review Committee Approval		**Version Number**	

Relation With Other Modules
العلاقة مع المواد الدراسية الأخرى

Prerequisite module	English Language I	**Semester**	2
Co-requisites module		**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	The course aims to develop students' knowledge and awareness of English grammar through revising and introducing English tenses (Present tenses, Past tenses, Present perfect and past simple, Present Perfect Continuous, Present Perfect Simple versus Continuous Past perfect for clarification). It also attempts to teach the students how to make questions, express quantity, use articles, use verb patterns, and express future intentions. Students will be presented with other grammatical items like: the use of 'What's it like?' (asking for a description), forming and using comparative and superlative adjectives, expressing obligation (have (got) to, should, must), using time and conditional clauses (1,2), forming and practicing passive sentences, using 'might' to express lack of certainty, and reported speech. The course also targets students' vocabulary, i.e., it encourages them to build their vocabulary and their awareness of how English works by: using a bilingual dictionary, looking at the parts of speech in English, knowing how to use suffixes to make different parts of speech, making connections and making negatives, identifying the word pairs, words that go together (collocations) and compound nouns, and verbs and nouns that go together. Moreover, the course endeavors to acquaint the students with new vocabulary items and words used in describing countries, things we buy, money, jobs, travelling abroad, hotels, shops, describing feelings and situations, and talking about cities. The course also focuses on developing student's everyday English by introducing and practicing common social expressions through dialogues, practicing and making conversation and keep it going, short answers, expressing and forming exclamations, and using the telephone in both formal and informal situations. Other areas of functional language are introduced to the students such as dealing with time expressions- using dates, and phrases with and without prepositions, prices and shopping as well as vocabulary and functional language situations, e.g., 'At the doctor's' and vocabulary of illnesses is practiced, getting and giving directions with prepositions of place, e.g., behind, in front of, and prepositions of movement, e.g., along, across. The vocabulary and functional language involved in staying at a hotel and different way of saying goodbye are also addressed. . As for the linguistic skills, the course aims to develop the students' communicative linguistic skills: listening (improving students' ability to listen for gist and for specific information), reading (improving students' ability to comprehend texts), speaking (telling stories, survey, plans and ambitions, jobs, describing feelings and exchanging and discussing information about DNA and Google, etc.), and writing (informal and formal letters, filling in forms, a postcard, a biography, a review of a book or film, a story, and other writing skills, e.g., linking words, relative clauses) .
Module Learning Outcomes	At the end of the module, the students will: 1. revise, learn and recognize more English tenses (Present tenses, Past tenses, Present perfect and past simple, Present Perfect Continuous,

مخرجات التعلم للمادة الدراسية	Present Perfect Simple versus Continuous Past perfect for clarification). 2. be able to make questions, express quantity, use articles, use verb patterns, and express future intentions. 3. be able ask for a description, form and use comparative and superlative adjectives, express obligation, use time and conditional clauses (1,2), form passive sentences, use 'might' to express lack of certainty, and reported speech. 4. be able to use a bilingual dictionary, use suffixes to make different parts of speech, making connections and making negatives, identify the word pairs. 5. learn the vocabulary used in describing countries, things we buy, money, jobs, travelling abroad, hotels, shops, describing feelings and situations, and talking about cities. 6. know and learn some common social expressions, short answers, express and form exclamations. 7. learn time expressions- dates, prices and getting and giving directions. 8. be able to listen for gist and for specific information. 9. be able to comprehend different types of texts. 10. learn how to tell stories. 11. learn how to write informal and formal letters, filling in forms, a postcard, a biography, a review of a book or film, a story, and other writing skills.
Indicative Contents المحتويات الإرشادية	**Indicative content includes the following:** 1. Grammar 2. Vocabulary 3. Skills (listening, reading, speaking and writing) 4. Everyday English
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	1. Learning depends mainly on academic lectures that are delivered inside the classroom enhanced by playing audio scripts, using power point presentations, as well as in-class questions and discussions. 2. Homework and Assignments. 3. Tests and Exams 4. Role-play to allow students to practice language 5. Presentations

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

Module Evaluation تقييم المادة الدراسية					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	2	20% (20)	4, 9	
	Assignments	1	10% (10)	10	
	Participation in questions and discussions	1	10% (10)	1-15	
Summative assessment	**Midterm Exam**	2 hr	10% (10)	15	
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري				
Material Covered				
Week No.	Grammar	Vocabulary	Skills work	Everyday English
1.	Tenses, Questions and Question words	Using a bilingual dictionary Parts of Speech Words with more than one meaning	**Reading:** 'People, the great communicators' **Speaking:** Information gap Discussion Roleplay **Listening:** Neighbours **Writing:** Informal letters	Social Expressions 1
2.	Present tenses	Describing countries Collocation	**Reading:** 'Living in the USA' **Speaking:** Information gap Exchanging information about immigrants to the USA **Listening:** 'You drive me mad' **Writing:** Linking words	Making conversation
3.	Past tenses	Irregular verbs Making connections Suffixes to make different parts of speech Making negatives	**Reading:** 'The burglars' friend' 'The thief, his mother and $2 billion' 'Teenager goes on spending spree' Sherlock Holmes- The Three Students **Speaking:** Telling stories **Listening:** An extract from The Three Students **Writing:** Linking words	Time expressions
4.	Quantity words,	Buying things	**Reading:** Markets	Prices and

	Articles		around the world **Speaking:** Survey Discussion **Listening:** 'My uncle's a shopkeeper' Buying things **Writing:** Filling in forms	shopping
5.	Verb patterns 1 Future intentions	Hot verbs	**Reading:** 'Hollywood kids' **Speaking:** What are your plans and ambitions? Being a teenager **Listening:** A song **Writing:** Writing a postcard	How do you feel?
6.	What's it like? Comparative and superlative adjectives	Talking about cities Money Synonyms and antonyms	**Reading:** 'A tale of two millionaires' **Speaking:** Information gap Discussion **Listening:** Living in another country **Writing:** Relative clauses 1 Describing a place	Directions
7.	Present perfect and past simple for and since Tense revision	Past participles Bands of music Adverbs Word pairs	**Reading:** Celebrity interview **Speaking:** Mingle Roleplay Project **Listening:** An interview with the band style **Writing:** Relative clauses 2 Writing a biography	short answers
8.	have (got) to should must	Jobs Travelling abroad Words that go	**Reading:** Problem page **Speaking:**	At the doctor's

		together Compound nouns	Jobs Discussion Asking questions about places Roleplay Group work **Listening:** Holidays in January At the doctor's **Writing:** Writing letters/ Formal letters	
9.	Time and conditional clauses What if…?	Hot verbs Hotels	**Reading:** The world's first megalopolis **Speaking:** What will you do? Discussion What are the biggest cities in the world? **Listening:** Life in 2050 **Writing:** Linking words	In a hotel
10.	Verb patterns 2 Infinitives	Shops Describing feelings and situations	**Reading:** 'Don't look down' 'Into the wild' **Speaking:** 'When I was young' Describing feelings Roleplay **Listening:** When I was young The sinking of the Titanic **Writing:** Writing letters/ Formal and informal letters	Exclamations
11.	Passives	Verbs and past participles Verbs and nouns that go together	**Reading:** A discovery and an invention that changed the world **Speaking:** Exchanging and	Notices

			discussing information about DNA and Google **Listening:** The world's most common habit **Writing:** Writing a review of a book or film	
12.	Second conditional might	phrasal verbs	**Reading:** Supervolcano **Speaking:** Giving advice Discussion **6.Listening:** Two students talk about their future plans **Writing:** Adverbs Writing a story	Social expressions 2
13.	Present Perfect Continuous Present Perfect Simple versus Continuous	Jobs Word formation Adverbs	**Reading:** A funny way to earn a living **Speaking:** Information gap Discussion Roleplay **Listening:** Giving news **Writing:** Writing letters	Telephoning
14.	Past perfect for clarification Reported speech	Hot verbs	**Reading:** Twins reunite after forty years A short story-'The tale of two silent brothers' **Speaking:** Telling stories Arguments in families What happened next in the story? Families that live abroad **Listening:** An interview with Beth Taylor	Saying goodbye

			Families that live abroad **Writing:** Writing a story	
15.	Midterm exam			

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Textbook	• Textbook: New Headway Plus / Pre-Intermediate by John and Liz Soars	Yes
Recommended Texts	• Oxford Learner's Dictionary	
Websites	• BBC Learning English	

APPENDIX:

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

NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.



ملاحظة: هذا النموذج تم وضعه وتقديمه من قبل مديرية ضمان الجودة في وزارة التعليم العالي والبحث العلمي

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Computer 2**			**Module Delivery**	
Module Type	**Basic learning activities**			**x Theory** **x Lecture** **☐Lab** **x Tutorial** **☐Practical** **☐Seminar**	
Module Code	**UOB203**				
ECTS Credits	**3**				
SWL (hr/sem)	**75**				
Module Level	2		**Semester of Delivery**	3	
Administering Department	Architectural		**College**	Engineering	
Module Leader	Mohammed Khaleefah		**e-mail**	mohammed.khleefah@coeng.uobaghdad.edu.iq	
Module Leader's Acad. Title	Assistant lecturer		**Module Leader's Qualification**	M.Sc.	
Module Tutor			**e-mail**		
Peer Reviewer Name	None		**e-mail**	None	
Scientific Committee Approval Date			**Version Number**	1.0	

Relation with other Modules العلاقة مع المواد الدراسية الأخرى				
Prerequisite module	None	computer 1	**Semester**	1
Co-requisites module	None		**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	The course aims to: 1. Provide basic knowledge of network, network security, understanding network threats, and network troubleshooting. 2. Introduction to e-commerce, concepts of electronic banking services including ATM and debit card services. 3. Fix computer systems by learning how to diagnose and solve common hardware and software problems. 4. To introduce the students to Artificial intelligence (AI), the history of AI, Techniques and Approaches, Challenges, and Ethical Considerations. 5. Explore the societal and future effects of AI including its application in daily life and professional fields like healthcare, education, and finance. 6. To introduce the students to the impact of AI tools on architecture.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	By the end of the course, students will be able to: 1. Students will gain valuable skills in computer networks, network security, and troubleshooting common network issues. 2. Understand how to use e-commerce technology, such as mobile banking and online transactions. 3. Identify common hardware and software problems and use troubleshooting techniques efficiently. 4. Understanding the fundamentals of AI and gaining skills to use the most common AI tools in daily life. 5. Using AI-powered tools effectively for Education and Engineering.
Indicative Contents المحتويات الإرشادية	The 100 hours of student work include many assessments and exams.

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The student's work will be assessed based on the module tasks. The quizzes, homework, and reports will be assessed during the following lectures. a final exam will be held at the end of the semester.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	63	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	none
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	37	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	none
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**100**		

Module Evaluation

تقييم المادة الدراسية

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

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Introduction to Networking.
Week 2	Introduction to Network Security and troubleshooting techniques.
Week 3	Introduction to E-Commerce.

Week 4	Computer Troubleshooting
Week 5	Introduction to AI
Week 6	Artificial Intelligence in Our Daily Live
Week 7	**Mid-term Exam.**
Week 8	Applications of Al
Week 9	Al and Society, and Ethical Challenges in AI
Week 10	The Future of Al
Week 11	Introduction of Prompt Engineering
Week 12	Advanced Prompt engineering
Week 13	Academic Writing with AI Tools
Week 14	The impact of AI on architecture
Week 15	E-safety
Week 16	**Exam**

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي العملي

	Material Covered
Week 1	Basics of Network Configuration
Week 2	Identify network threats and Use software like firewalls to protect the network from potential threats.
Week 3	Explore real-life mobile banking applications.
Week 4	Diagnose and resolve hardware problems and common software problems.
Week 5	Explore AI tools like ChatGPT and Google Gemini.
Week 6	Explore AI in devices like smartphones and virtual assistants like Siri or Google Assistant.)
Week 7	Explore important AI tools in Education, Healthcare, Finance, Transportation, Marketing, and Advertising.
Week 8	**Mid-term Exam.**
Week 9	Advanced use of ChatGPT
Week 10	Advanced use of ChatGPT
Week 11	How to design efficient prompts that enable AI systems to produce accurate and customized

	outputs.
Week 12	design efficient advanced prompts that enable AI systems to produce professional outputs.
Week 13	Learn how to use AI tools to help with academic writing.
Week 14	Using AI tools to generate designs and enhance designs in architecture.
Week 15	Learn how to enhance Password Security, Understand Malware Protection, and Data Privacy.

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	- Graham Brown, David Watson, "Cambridge IGCSE Information and Communication Technology", 3rd Edition (2020). -Alan Evans, Kendall Martin, Mary Anne Poatsy, "Technology in Action Complete", 16th Edition (2020). - Ahmed Banafa, "Introduction to Artificial Intelligence (AI)", 1st Edition (2024).	Yes
Recommended Texts	- Stokel-Walker, C. (2024). How AI Ate the World	NO
Websites	https://microsoft.github.io/AI-For-Beginners/	

Grading Scheme
مخطط الدرجات

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

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	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information
معلومات المادة الدراسية

Module Title	ARCH COMMUNICATION,D GEOMETRY	**Module Delivery**	
Module Type	CORE	✓ **Theory** ✓ **Lecture** **Lab** ✓ **Tutorial** ✓ **Practical** **Seminar**	
Module Code	ARCH2104 Arch 212		
ECTS Credits	4		
SWL (hr/sem)	100		

Module Level	UGII	**Semester of Delivery**	3
Administering Department	Arch	**College**	CEC
Module Leader	Wijdan Haseeb Khamees	**e-mail**	wijdanhaseeb@coeng.uobaghdad.edu.iq
Module Leader's Acad. Title	Lecturer	**Module Leader's Qualification**	MSc.
Module Tutor	Zainab Salih Abbas Albermani	**e-mail**	Zainab.albermani@coeng.uobaghdad.edu.iq
Peer Reviewer Name	None	**e-mail**	None
Review Committee Approval		**Version Number**	1

Relation With Other Modules
العلاقة مع المواد الدراسية الأخرى

Prerequisite module	digital com.1	**Semester**	2
Co-requisites module		**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	**Course Objectives: Architectural drawings are considered one of the most important means of expressing architectural design ideas. Therefore, this subject aims to build and develop the student's expressive skills. Moreover, it aims to train the student to use different materials and techniques in presentation. The subject focuses on the gradual building of the student's skills through a clear sequence of practices starting from special practices of line quality to two-dimensional drawings represented in section and elevation plans. In the second half of the second semester, the basic principles of three-dimensional drawings are identified, especially the axial and basic basics. As for the presentation, the focus in the first stage is on presentation techniques using pencils and collage using poster and watercolors, as well as developing the student's architectural expression skills using various techniques and skills in presentation. Digital design techniques using Adobe Photoshop will be added with the aim of enabling the student to present architectural ideas in a digital and advanced way.** **The goal includes training the student to use Photoshop in drawing the internal and external perspective of buildings, in addition to modifying images and creating professional presentations, in addition to developing architectural model making skills.**
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	**A- Cognitive objectives** **1- Build imagination to support the conceptual framework** **2- Learn how to develop their concepts into an active design project that can be implemented in reality** **3- Develop their ability to develop a design that meets reasonable costs and effo** **B- Course skill objectives** **1- The student will be able to design and draw using Adobe Photoshop** **2- The student will be able to design and draw using Auto CAD** **3- The student will be able to design and draw using 3D max** **4- The student will be able to design and draw using Revit** **C- Affective and value objectives** **1- Build imagination to support the conceptual framework in performing class**

	assignments and homework. 2- Build the ability to work with a team to integrate their efforts with others.
Indicative Contents المحتويات الإرشادية	**Indicative content includes the following.** 3- Building and developing the student's expressive skills: Train the student to use various materials and techniques in presentation. The course focuses on the gradual development of the student's skills through a clear sequence of practices, starting with specific practices related to line quality, and moving towards two-dimensional drawings such as section and elevation plans. 4- Understanding the basic principles of three-dimensional drawings: This includes the fundamental axial concepts for presentation. Students will be trained in design skills using Adobe Photoshop to create digital architectural drawings and develop professional presentations. 5- Focusing on interior and exterior perspective techniques using Photoshop: T includes drawing facades and surrounding landscapes. 6- Emphasizing the use of pencil, collage, and ink: The course also covers presentation principles using posters and watercolors. In addition, students develop image editing skills and create three-dimensional models using Photoshop for project designs. The course also enhances skills in architectu model making. 7- Additional digital content will focus on image processing and enhancement t deliver outstanding architectural presentations.
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	• **Teaching and learning methods** 1. Theoretical and practical lectures. 2. Interactive lessons. 3. Assignments and homework. 4. Tests and exams. 5. Questions and discussions inside the classroom. 6. Extracurricular activities. 7. Student discussions inside and outside the classroom. 8. Reports, presentations, and posters. 9. Questions, discussions, and digital and graphical diagrams inside the classroom. 10. Lectures using data presentations about art and celebrities.

	11. Homework. 12. Outdoor drawing of buildings and surrounding landscapes. 13. Trips to art exhibitions. 14. Holding seminars and workshops. • Evaluation methods 15. Drawing quick and digital sketches. 16. Preparing reports and discussions. 17. Tests. 18. Final exam.

Student Workload (SWL)
الحمل الدراسي للطالب

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	64	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	36	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	2.25
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	100		

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Quizzes**	3	10% (10)	7,14	LO #A (1-2) , C (1)
	Assignments	3	15% (15)	2,3,5,6, 10,11,13,	LO # A (1-2) , B (1-2-3) , C (1)
	Projects / sketch panel	1	10% (10)	15	LO # A (1-2) , C (1-2)
	Poster	1	5% (5)	8	LO # A (1-2) , B (1-2-3) , C (1-2)
Summative assessment	**Midterm Exam**	3 hr	10% (10)	9	LO # A-B-C
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Isometric drawing
Week 2	Arc drawing
Week 3	Cellar drawing
Week 4	Curve drawing
Week 5	Shadow drawing
Week 6	**First course exam**
Week 7	**Quizzes**
Week 8	recycling architecture Model
Week 9	**Midterm Exam**
Week 10	Adobe Photoshop Basics
Week 11	Image Enhancement and Color Adjustments By Adobe Photoshop
Week 12	Creating an Architectural Presentation Poster By Adobe Photoshop
Week 13	Advanced Techniques and AI Tools in Adobe Photoshop
Week 14	**Quizzes**
Week 15	Poster Presentation
Week 16	**Final Exam**

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	Professor's lectures	
Recommended Texts	Nuefert book	Yes
Websites	One Point Perspective Drawing: The Ultimate Guide (studentartguide.com) 7-Step Perspective Drawing [Architecture Design Concept Development] — Sketch Like an Architect	

	1,2and3-Point Perspective For Architectural Sketches - Architecture Daily Sketches (youtube.com) (726) Pinterest How to Draw Architecture using Two-Point Perspective: Narrated (youtube.com)

APPENDIX:

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

NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

ملاحظة: هذا النموذج تم وضعه وتقديمه من قبل مديرية ضمان الجودة في وزارة التعليم العالي والبحث العلمي

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Mathematics 2**			**Module Delivery**	
Module Type	S			☒ **Theory** ☐ **Lecture** ☐ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	ARCH2122				
ECTS Credits	4				
SSWL (hr/sem)					
USSWL (hr/sem)					
SWL (hr/sem)	100				
Module Level	2		**Semester of Delivery**	3	
Administering Department	Architectural		**College**	Engineering	
Module Leader			**e-mail**		
Module Leader's Acad. Title			**Module Leader's Qualification**	M.SC.	
Module Tutor	Name (if available)		**e-mail**	E-mail	
Peer Reviewer Name	Name		**e-mail**	E-mail	
Scientific Committee Approval Date	01/9/2024		**Version Number**	2.0	

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

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	a- Introduce basic definitions and introductory concepts of mathematics b- Introducing the method of Matrix to solve system of linear equations and illustrate these concepts by examples. c- Understand the vector function to define the velocity, acceleration, curvature and the torsion d- Illustrate the first and second order differential equation
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. How to solve a system of linear equations using the matrices. 2. Use the vectors to Find equation of lines, planes 3. Use vector function to define the velocity, acceleration, curvature and the torsion 4. Graphing all types of functions. 5. Differential equations (first and second order)
Indicative Contents المحتويات الإرشادية	Part A – Matrices Definition of matrices and inverse of a matrix Solving linear system using matrices. Part B – Vectors Definitions, operations, applications. Part C – Vector Functions Velocity, acceleration, curvature and the torsion . Part D – Graph Functions Graphing all types of functions. Part E – Differential equations Solve of first and second order.

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

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

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

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	5% (5)	5 and 10	LO #1, #2 and #3, #4
	Assignments	2	10% (10)	2 and 12	LO #1, #2 and #4, #5
	Projects / Lab.				
	Report	1	10% (10)	13	LO #1 #2 #3 #4 #5
Summative assessment	Midterm Exam	2hr	15% (15)	8	LO #1 - #3
	Final Exam	3hr	60% (60)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي النظري

	Material Covered
Week 1	Introduction
Week 2	Matrices.
Week 3	Inverse of a matrix.
Week 4	Solving linear equations using matrices.
Week 5	The vectors.
Week 6	Scalar and vector product.
Week 7	Equation of lines and planes.

Week 8	Vector functions.
Week 9	Applications.
Week 10	Graph of functions
Week 11	Types of Differential equations
Week 12	First order.
Week 13	Second order
Week 14	Applications.
Week 15	Extreme values.
Week 16	**Preparatory week before the final Exam**

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	----------

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	Thomas' Calculus, Early Transcendentals by George B. Thomas	
Recommended Texts	Calculus by Howard Anton	
Websites	------	

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

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

Ministry of Higher Education and Scientific Research - Iraq
University of Baghdad
College of Engineering
Department of Architectural Engineering

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information
معلومات المادة الدراسية

Module Title	ARCHITECTURAL DESIGN 3	**Module Delivery**	
Module Type	CORE	☒ **Theory** ☒ **Lecture** **Lab** **Tutorial** ☒ **Practical** ☒ **Seminar**	
Module Code	ARCH2101		
ECTS Credits	10		
SWL (hr/sem)	250		
Module Level	UGII	**Semester of Delivery**	3
Administering Department	Arch	**College**	College of Engineering COG
Module Leader	Dr. Ammar Saleh Ashour Dr. Anas Hameed Majeed M.Sc. Hala Hussain Mousa	**e-mail**	ammar.ashour@coeng.uobaghdad.edu.iq anas.h.majeed@coeng.uobaghdad.edu.iq hala.musa@uobaghdad.edu.iq
Module Leader's Acad. Title	Lecturer	**Module Leader's Qualification**	Ph.D.
Module Tutor	None	**e-mail**	None
Peer Reviewer Name	Dr. Ghada Musa	**e-mail**	Ghada.alslik@coeng.uobaghdad.edu.iq
Review Committee Approval	01/09/2024	**Version Number**	1.0

Relation With Other Modules
العلاقة مع المواد الدراسية الأخرى

Prerequisite module	Architectural Design and Graphics 3	**Semester**	2
Co-requisites module	Architectural Design 4	**Semester**	4

Module Aims, Learning Outcomes and Indicative Contents
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Aims أهداف المادة الدراسية	**The principle of this course is to introduce and enable the student to design a complete project, from a sketch to working drawings. This aim is done through:** 1- Support the practical design projects for the student designs with theoretical background. 2- Be able to do site surveys and studies. 3- Be able to do studies related to a specific project program. 4- Be able to design a specific program. 5- Design with understanding the surroundings impact. 6- Be able to understand different design approaches and methods. 7- Understand the impact of social and cultural environment. 8- Understand the impact of weather and natural environment. 9- Understand heritage and traditional architecture and their impact on design. 10- Be able to understand basic load bearing system and design with it. 11- Be able to understand building services 12- Be able to understand interior and exterior space relationship 13- Be able to design interior spaces layouts and details 14- Be able to understand and design project landscape 15- Be able to design and present the project in an expressive way. 16- Be able to communicate and discuss his or her ideas.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	Design program presents the most needed design that is the school design with all its requirements, containing studies, theories, and different design approaches (functional- environmental- services- aesthetic & expressional).
Indicative Contents المحتويات الإرشادية	**Indicative content includes the following:** Part A – lecture –Theory part Studying the importance of project's site and its dimensions, and the impact of surroundings as well as social and natural environment. Studying properties of exterior spaces and courts, also discussing the properties of interior spaces. Exploring the functional requirements of school, and studying the heritage influences. Getting to know the constructional methods including structure (especially loadbearing), sewages, and contemporary specializations. Studying furniture and landscape standards. Exploring aesthetic values and materials of elevations. Part B – practical part Designing house project and completing all its stages which includes producing a report of influences and requirements, going through stages of developing design, and submitting a full presented project.

Learning and Teaching Strategies
استراتيجيات التعلم والتعليم

Strategies	The main strategy that will be adopted in delivering this module is to encourage students' to participate in different stages of design practice. This demands continuous submissions and communication that contain architectural drawing sheets, reports, graphic presentation, virtual presentation, and model making. At the same time these points ensure refining and expanding student's critical thinking skills which will be achieved through academic lectures, studio presentations, discussions, and analysis with students, also field visits and group working.

Student Workload (SWL)
الحمل الدراسي للطالب

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	155	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	10.3
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	95	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	6.3
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	250		

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Report**	3	5% (5)	1, 2	from 1 to 9
	Homework	11	20% (20)	3, 4, 5, 6	from 6 to9
	Day sketch	2	10% (10)	5, 8	from 5 to 15
	Class work	2	5% (5)	4, 7	from 5 to 15
Summative assessment	**Midterm**	4	10% (10)	7, 8	from 5 to 15
	House Final	1	30% (30)	14	All especially 15
	House pre-final + Working drawing (home+ class work)	7	10% (10)	10, 11, 12	10, 11, 16
	Working drawing Final	1	5% (5)	13	10,11, 16, 15
	Final Exam	1	5% (5)	15	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي النظري

	Material Covered
Week 1	House: Study (group work: function, environment, expression, structure, similar examples)
Week 2	House: Study (upgrading study reports through discussion and analysis / submission)
Week 3	House: Concept (first concept as sketches, diagrams, and 3D model)
Week 4	House: Concept (upgrading concept through plans and model)
Week 5	House: Development of concept/ upgrading of plan and section/ furnishing
Week 6	House: Upgrading plans and sections proposals.
Week 7	House: Upgrading elevations and prespectives proposals
Week 8	House: Prelim 01.
Week 9	House: upgrading project according to staff notices after Prelim 01.
Week 10	House: Prelim 02.
Week 11	House: upgrading project according to staff notices after Prelim 02.
Week 12	House: Pre-final presentation (Sheets / model/ other techniques).
Week 13	House: upgrading project according to last staff notices.
Week 14	House: Final presentation.
Week 15	Semester Exam.
Week 16	--------

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	-------	
Recommended Texts	○ Architectural Graphic Standards ○ Neufert Architect's Data ○ Architecture: Form, Space, and Order/ F. Ching ○ Architectural Graphics/ F. Ching ○ Interior Design Illustrated/F. Ching ○ Design Strategies in Architecture: An Approach to the Analysis of Form/ G. Baker ○ Design and Analysis/ B. Leupen ○ Analysing Architecture/ S. Unwin ○ Traditional Houses in Baghdad/ Ihsan Fathi	Yes Yes Yes Yes Yes
Websites	https://www.pinterest.com/aminaalghailani/new-house-design/ https://www.mojohomes.com.au/best-selling-home-designs https://fanack.com/ar/iraq/culture-of-iraq/iraqs-courtyard-houses-a-cultural-heritage-to-behold/ https://folkculturebh.org/ar/?issue=25&page=article&id=476	

APPENDIX:

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

Note:

NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

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	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	ARCH COMMUNICATION FREEHAND3			**Module Delivery**	
Module Type	CORE			☐ **Theory** ☒ **Lecture** ☐ **Lab** ☒ **Tutorial** ☒ **Practical** ☐ **Seminar**	
Module Code	ARCH2102				
ECTS Credits	3				
SWL (hr/sem)	75				
Module Level		2	**Semester of Delivery**		3
Administering Department		Arch	**College**		CEC
Module Leader	Ammar Salim		**e-mail**		ammar.salim@coeng.uobaghdad.edu.iq
Module Leader's Acad. Title		/	**Module Leader's Qualification**		/
Module Tutor	/		**e-mail**		None
Peer Reviewer Name		/	**e-mail**		/
Review Committee Approval		[redacted]	**Version Number**		1.0

Relation with Other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	Communication Skills Freehand 2	**Semester**	1,2
Co-requisites module	None		
Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية			
Module Aims أهداف المادة الدراسية	1. Developing the student's skills in using watercolors with advanced techniques. 2. Developing the student's ability to control the implementation of complex shapes and advanced color techniques. 3. Practical practice of how to display projects through perspectives implemented in colors and benefit from them in design materials 4. Strengthening the student's skill in transforming what is going on in his mind into an image that can be perceived through free drawing 5. Introducing the student to the most important artistic movements and Iraqi, Arab and foreign artists. This comes through theoretical lectures accompanied by a visual display of their works, in addition to visits made by students to places where artworks are displayed inside Iraq.		
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1- Learn about watercolors and how to draw with them using all techniques. 2- The ability to draw different shapes and elements with watercolors. 3- The ability to draw realistic buildings according to the single or dual perspective of vanishing points. 4- The ability to draw elements, shapes and imaginary buildings with the correct drawing perspective and color them with watercolors. 5- The ability to draw architectural projects with watercolors.		
Indicative Contents المحتويات الإرشادية	1. Lectures & tutorials (in-class drawing plans & sketches for the required project). 2. Reports & presentations (case studies, data & analyses for the required project). 3. Homework and Assignments. 4. In-class questions and Discussions (general and private criticism). 5. Extracurricular Activities. 6. Seminars 7. In- and Out-Class oral conservations. 8. Trips & site visits for a similar project that relates to the required project. 9. Tests and Exams.		
Learning and Teaching Strategies استراتيجيات التعلم والتعليم			

Strategies	Type something like: The main strategy that will be adopted in delivering this module is to developing the student's ability in the basics of selecting the suitable composition and color, Training the student's eye to recognize the tiny details in the tangible real world and to recognize the percentages, movements, shade and shadow, light and color. It will be achieved through academic lectures and intellectual discussions with students, submitting reports and assignments, field visits, and making architectural drawings.

Student Workload (SWL)
الحمل الدراسي للطالب

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	49	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	26	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	75		

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Drawings**	10	30% (30)	2,3,4,5, 7,8, 11,12,13,14	LO # all
	Assignments	1	5% (5)	10	LO # 10
	Report	1	5% (5)	10	LO # 7,8
Summative assessment	**day-sketches**	3	30% (30)	6,9,15	LO # 3,4,5 LO # 7,8 LO # 11,12,13,14
	Final projects	2	30% (30)	9,15	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي

	Material Covered
Week 1	- Defining the principles of modern watercolor painting and its types, with the types of brushes and papers used, with direct application of them.
Week 2	- Extracting binary and tertiary colors, an exercise on this and emphasizing the intensity of the color. - Homework: drawing 1
Week 3	- Extracting light values (Tones) Colors are the color wheel. Comparing colors from the number of possible light values for them. - Homework: drawing 2
Week 4	- Another still life exercise with natural watercolors, avoiding the use of black and white pigments, then a lecture on general composition and construction in the painting. - Homework: drawing 3
Week 5	- Exercise on color reflections in materials. Drawing a still life composition using plants. - Homework: drawing 4
Week 6	- Test: day-sketches 1
Week 7	- Drawing trees from nature with watercolors. - Homework: drawing 5
Week 8	- Studying the details of the building landscape as an integral part of any building (site panorama) and at different depths. - Homework: drawing 6
Week 9	- Drawing the surrounding environment of the buildings with an evaluation of the previous stage. - Report related to the lesson.
Week 10	- Explanation of the basics of perspective in buildings with one vanishing points, with an exercise in drawing a perspective of a building with one vanishing point in watercolors, emphasizing avoiding the primary colors black and white. - Homework: drawing 7
Week 11	- Drawing perspective for a building in tow vanishing points. - Homework: drawing 8
Week 12	- Test: day-sketches 2
Week 13	- Drawing interior perspective in watercolor. - Homework: drawing 9
Week 14	- Sketching with watercolor of several kinds of trees (3 kinds) and confirming the differentiation of the kinds. - Homework: drawing 10
Week 15	- Final projects 2 - Test: day-sketches 3

Week 16	-

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	- Basic educational resources and illustrations of models of building facades and others in specialization and among them - Study, Muhammad Abdallah and Adly Muhammad Abd. The general lassie of free hand drawing, Arab Academy Library, 1st Edition, 2011	Yes Yes
Recommended Texts	- Ernst Neufert, Architects' Data, 2012 - Francis D. K. Ching, Steven P. Juroszek, Architecture: Form, Space, and Order, 2004	Yes Yes
Websites	Different architectural websites. - Arch daily : https://www.archdaily.com/ - Arch h2o : https://www.arch2o.com/ - Arch space : https://thearchspace.com/ - Dezeen : https://www.dezeen.com/ - Architizer : https://architizer.com/ - أركين : https://www.arcign.com/projects/	

APPENDIX:

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

NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

Ministry of Higher Education and Scientific Research - Iraq
University of Baghdad
College of Engineering
Department of Electrical Engineering

MODULEDESCRIPTORFORM نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Building construction 1**			**Module Delivery**	
Module Type	**Core**			■ **Theory** ■ **Lecture** ☐ **Lab** ☐ **Tutorial** ■ **Practical** ☐ **Seminar**	
Module Code	**ARCH2106**				
ECTS Credits	**4**				
SWL (hr/sem)	**100**				
Module Level	UGII		**Semester of Delivery**	3	
Administering Department	ARCH		**College**	University of Baghdad	
Module Leader	**Maysaa Izyara Mohammed**		**e-mail**	maysaa.ziarah@coeng.uobaghdad.edu.iq	
Module Leader's Acad. Title	LECTURER		**Module Leader's Qualification**	M.Sc. in architectural engineering	
Module Tutor	**Sharq Jafer Hadi Al-Yasiri** **Maye Mohammed Baqier Alsunbili**		**e-mail**	sharq.alyassiry@coeng.uobaghdad.edu.iq maye_mbk@coeng.uobaghdad.edu.iq	
Peer Reviewer Name			**e-mail**		
Review Committee Approval			**Version Number**		

Relation with other modules العلاقة مع المواد الدراسية الاخرى			
Prerequisite module	Physics, M.	**Semester**	2
Co-requisites module	Build..Constrct.1	**Semester**	4

Module Aims, Learning Outcomes and Indicative Contents أهدافالمادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	1. Introducing the student to some aspects of technical systems related to building information that the architect must know in order to develop his design and construction capacity. 2. This course deals with the basic concept of Building construction and Simple types of building constructions are introduced to the students.. 3. To understand how foundations and structural plans and sections are working and drawing. 4. This is the basic subject for all simple concrete floors and roofs , detailed sections in buildings 5. To understand how load bearing walls and Jack are working 6. To understand buildings including doors and windows, stairs and partitions
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1- Graduates will be able to carry out all types and scales of structure, with different types in different scale. 2- The student is introduced to the solid structural system and the use of local bricks that are suitable for the environment. 3- Forming a knowledge base that qualifies the student to understand local materials, their expressive properties, and ways of using them in construction. 4- Graduates will be able with other architects in group work, or work with other specializations in inter- disciplinary groups, in construction studies. 5- Graduate will be able to lead and positively interact, with other engineers working on any project, like structural, sanitary, electrical mechanical or surveying engineers.. 6- Graduates will be able to make a working drawing set.

Indicative Contents **المحتويات الإرشادية**	Indicative content includes the following: The semester includes two parts, the first is theoretical, which deals with general principles (particularly the solid system), and the second is practical, dealing with ways of expressing structural problems in an architectural language as an application of the theoretical material. **A-Theory Part**: 1- Focus on solidstructure system Using the Brick work which appropriate to our Environment and local Architect to be formed the knoll edge base prepared the student .under tending the Execution operations. 2- The theoretical side consists of two parts: • Construction systems (solid –skeletal –surface). • the basic structural elements of the building including Walls, and partitions ;Walls classify Cat ion contractually ; Masonry walls (brick work) principles of bonding; Bond and mauling. [15 hrs] **B-The practical part consists of:** • Enlarged details of the types of connection and the various problems of connection, how to obtain a load-bearing wall or partition, and how to make a hole in it • With the work of details of the floors and the foundation of all kinds, with the required environmental treatments

Learning and Teaching Strategies **استراتيجيات التعلم والتعليم**	
Strategies	The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises Including the first semester a report of one of the material (wood-Clay-Concert…etc). while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students.

Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	64	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	36	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	2
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	100		

Module Evaluation تقييم المادة الدراسية

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

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري

	Material Covered
WEEK 1	**Introduction to the building construction (structural systems).**
WEEK 2	**Building method and building operation.**
WEEK 3	**Construction systems (solid –skeletal –surface).**
WEEK 4	**Walls, bearing and partitions+Quiz.**
WEEK 5	**Walls classification contractually.**
WEEK 6	**Masonry walls (brick work) principles of bonding.**
WEEK 7	**Mid-term Exam +Bond and mauling.**

WEEK 8	**Opening sin masonry walls.**
WEEK 9	**The foundation and Classification of foundations.**
WEEK 10	**Classification of Upper floor.**
WEEK 11	**Upper Floors (Jack arching –wood floors).**
WEEK 12	**Upper Floors (Cast- situ -precast).**
WEEK 13	**The Roof +Quiz.**
WEEK 14	**Resistance the environment element's in walls, floors, and Roofs**
WEEK 15	**Preparatory Week**
WEEK 16	**Final Exam**

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	**STRETCHER BOND COURSE1+COURSE2+ELEVATION**
Week 2	**ENGLISH BOND COURSE1+COURSE2+ELEVATION**
Week 3	**ENGLISH BOND COURSE1+COURSE2+ELEVATION**
Week 4	**Day sketch1**
Week 5	**FLEMISH BOND COURSE1+COURSE2+ELEVATION**
Week 6	**FLEMISH BOND COURSE1+COURSE2+ELEVATION**
Week 7	**COLUMNS&PILASTERS :**
WEEK 8	**COLUMNS&PILASTERS :**
WEEK 9	**JAMBS:**
WEEK 10	**JAMBS:**
WEEK 11	**Day sketch2**
WEEK 12	**Foundation**

WEEK 13	**Foundation**
WEEK 14	**Foundation**
WEEK 15	**Preparatory Week**
WEEK 16	**Final Exam**

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Building Constriction /Atef Al sohairi/ is t.pub .1991.	Yes
Recommended Texts	1. Building Constriction/ArtenLifon,Zoher sake, is' t .pub.1983. 2. Mitchell's Elementary Building Constriction / Raymond motley /1959. 3. Building Craft series: brick work /w. b. ma Kay/1945. 4. Building Construction Details /Practice Drawings/Hans bans\1983 5. New Architecture and Technology /Gylula Sebastian/2003 6. Mitchells –introduction to building -3rd edition ,2002	yes
Websites	-Arch daily • Arch h2o • Arch space dezone	

APPENDIX:

GRADING SCHEME
مخطط الدرجات

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

Note:				

NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.



ملاحظة: هذا النموذج تم وضعه وتقديمه من قبل مديرية ضمان الجودة في وزارة التعليم العالي والبحث العلمي

	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information
معلومات المادة الدراسية

Module Title	DIGITAL COMMUNICATION COMPUTER2	**Module Delivery**	
Module Type	BASIC	**Lab** **Practical**	
Module Code	ARCH2207		
ECTS Credits	3		
SWL (hr/sem)	75		
Module Level	UGII	**Semester of Delivery**	4
Administering Department	Arch	**College**	Engineering
Module Leader	Hisham Alaa Husain	**e-mail**	hisham.husain@coeng.uobaghdad.edu.iq
Module Leader's Acad. Title	Lecturer	**Module Leader's Qualification**	Ph.D.
Module Tutor	None	**e-mail**	None
Peer Reviewer Name	None	**e-mail**	None
Review Committee Approval		**Version Number**	1.0

Relation With Other Modules
العلاقة مع المواد الدراسية الأخرى

Prerequisite module	Digital C 1	**Semester**	Two
Co-requisites module	Computer digital architecture1	**Semester**	Five

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	The course will focus on learning Sketch-Up, a 3D modeling program, the course aims to master the program in order to achieve: • **Visualizing Ideas**: Sketch-Up helps bring ideas to life by allowing you to create detailed 3D models of objects, buildings, and landscapes. This is useful for architects, interior designers, and hobbyists who want to visualize their concepts before committing to them. • **Design Development**: For professionals in design fields, Sketch-Up offers a way to develop and refine designs. You can experiment with different shapes, sizes, and configurations, and make adjustments quickly. • **Communication**: 3D models are often easier to understand than 2D drawings. Using Sketch-Up can help you communicate your ideas more effectively to clients, colleagues, or stakeholders, providing a clearer representation of your vision. • **Planning and Analysis**: Sketch-Up can be used to analyze and plan projects. For example, you can assess the spatial relationship between elements, check for potential design issues, and evaluate how different design choices affect the overall project. • **Rendering and Presentation**: With Sketch-Up, you can create detailed models that can be rendered into realistic images or animations. This is useful for presentations, marketing materials, or project proposals. • **Learning and Skill Development**: Mastering Sketch-Up enhances your skills in 3D modeling, which a valuable asset in various industries, including architecture, is engineering, construction, and game design. • **Integration with Other Tools**: Sketch-Up can integrate with other software and tools, such as CAD programs, rendering engines, and virtual reality platforms. This integration can streamline workflows and enhance the overall design process.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. **Proficiency in 3D Modeling**: You'll develop skills in creating detailed 3D models, understanding spatial relationships, and visualizing complex designs. This proficiency is beneficial in fields like architecture, engineering, interior design, and more. 2. **Enhanced Design Communication**: You'll be able to present your ideas more effectively through 3D models, making it easier for clients, team members, and stakeholders to understand and provide feedback on your designs. 3. **Improved Design Accuracy**: By visualizing and refining your designs in 3D, you can identify potential issues and make adjustments early in the process, leading to more accurate and effective final products. 4. **Better Project Planning**: You'll gain the ability to plan and analyze projects more thoroughly. This includes assessing spatial relationships, testing different configurations, and understanding how changes impact the overall design.

	5. **Enhanced Presentation Skills**: With skills in rendering and creating realistic images or animations, you can produce compelling presentations that effectively showcase your designs and ideas. 6. **Increased Efficiency**: Learning Sketch-Up can streamline your workflow by allowing for quick adjustments and iterations. This efficiency can save time and resources in the design and planning stages. 7. **Career Advancement**: Proficiency in Sketch-Up can enhance your resume and open up new job opportunities in various fields that require 3D modeling skills, including design, architecture, engineering, and more.
Indicative Contents المحتويات الإرشادية	

Learning and Teaching Strategies
استراتيجيات التعلم والتعليم

Strategies	• The course will begin by defining specific learning objectives related to Sketch-Up, such as: ▪ Mastering modeling techniques. ▪ Understanding rendering. • Engage with structured academic resources, including: ▪ Textbooks. ▪ Online courses. ▪ Scholarly articles to build foundational knowledge. • Practice through targeted exercises and projects that align with the learning objectives. • Apply learning to practical scenarios or small projects. • Explore advanced features and stay updated on new developments in the field.

Student Workload (SWL)
الحمل الدراسي للطالب

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	48	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	3
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	27	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	2.4
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	75		

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Quizzes**	2	10% (10)	6, 10	LO #1,4,6
	Assignments	2	10% (10)	7, 11	LO #All
	Projects / Lab.	1	10% (10)	Continuous	LO #All

	Report	1	10% (10)	13	LO #1,4,5,7
Summative assessment	**Midterm Exam**	2 hr	10% (10)	7	LO #All
	Final Exam	2 hr	50% (50)	16	LO #All
Total assessment			100% (100)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي النظري

	Material Covered
Week 1	Introduction to Sketch-Up: Interface and Basic Tools
Week 2	Basic Shapes and Modeling Techniques 1
Week 3	Basic Shapes and Modeling Techniques 2
Week 4	Creating and Editing 3D Models 1
Week 5	Creating and Editing 3D Models 2
Week 6	Advanced Modeling Techniques 1
Week 7	Advanced Modeling Techniques 2
Week 8	Working with Textures and Materials
Week 9	Lighting and Rendering Basics
Week 10	Creating and Using Components
Week 11	Introduction to Sketch-Up Extensions and Plugins
Week 12	Project Work: Simple Design Assignment
Week 13	Review and Advanced Rendering Techniques
Week 14	Integrating Sketch-Up with Other Tools
Week 15	Final Project Work and Preparation
Week 16	**Final Exam**

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	**Available in the Library?**
Required Texts	Notebook prepared by the instructor of the course	YES
Recommended Texts	"Sketch-Up: The Definitive Guide for Woodworkers" by Bob Lang, 2017	No
Websites	Sketch-Up Campus https://learn.sketchup.com/	

APPENDIX:

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

NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Static and Strength of Materials**			**Module Delivery**	
Module Type	**Basic learning activities**			**x Theory** **x Lecture** **☐Lab** **x Tutorial** **☐Practical** **☐Seminar**	
Module Code	**ARCH2226**				
ECTS Credits	**4**				
SWL (hr/sem)	**100**				
Module Level	2		**Semester of Delivery**	4	
Administering Department	Architectural		**College**	Engineering	
Module Leader	Ahmed Khudher Abdulridha		**e-mail**	ahmed.khudher@coeng.uobaghdad.edu.iq	
Module Leader's Acad. Title	Teacher		**Module Leader's Qualification**	Ph.D.	
Module Tutor	Aya Riyad Abdulateef		**e-mail**		
Peer Reviewer Name	None		**e-mail**	none	
Scientific Committee Approval Date			**Version Number**	1.0	

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

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	The subject aims at familiarizing the student with the subject of forces and their analysis and distribution on the facilities, as well as introducing the reactions in the buildings. The subject includes a summary about trusses and their types, the distribution of force on them, and their structural behavior.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	The student will be able to understand the load type, and the influence of each type of load on the simple structure and body. In addition to the structural behavior of building materials that will be used in construction.
Indicative Contents المحتويات الإرشادية	Hours of of students work included many of assaments and exams100

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The subject will be presented to students through a specified series of lectures and tutorials assisted by notes. It will be supported by utilizing of computer assisted packages. The learning element will be evaluated by a set of assignments on computer element and tests to ensure outcomes are achieved.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	63	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	none
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	37	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	none
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**100**		

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	5	5% (5)	3, 5, 7, 10, 12	LO# 1,2,3, 4
	Assignments	6	10% (10)	2,4, 6, 8, 11, 14	LO# 4, 5 , 8 ,9,11,13
	Projects / Lab.				
	Report				
Summative assessment	Midterm Exam	2hr	40% (40)	8	1-9
	Final Exam	3hr	60% (60)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي النظري

	Material Covered
Week 1	Introduction
Week 2	Force Resultant
Week 3	Force Resultant
Week 4	Force Resultant
Week 5	Force Resultant
Week 6	The Couples
Week 7	Equilibrium
Week 8	Equilibrium
Week 9	Equilibrium
Week 10	Trusses
Week 11	Trusses
Week 12	Trusses
Week 13	Trusses
Week 14	Central of Ares
Week 15	Central of Ares
Week 16	Exam

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	-Engineering mechanics / Statics and dynamics by Higdon and Stiles. -Engineering mechanics by Ferdinand. - MECHANICS OF MATERIALS EIGHTH EDITION R. C. HIBBELER	Yes
Recommended Texts		Yes
Websites		

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

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

Ministry of Higher Education and Scientific Research - Iraq
University of Baghdad
College of Engineering
Department of Architectural Engineering

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information
معلومات المادة الدراسية

Module Title	ARCHITECTURAL DESIGN 4	**Module Delivery**	
Module Type	CORE	☒ **Theory** ☒ **Lecture** **Lab** **Tutorial** ☒ **Practical** ☒ **Seminar**	
Module Code	ARCH2201		
ECTS Credits	10		
SWL (hr/sem)	250		
Module Level	UGII	**Semester of Delivery**	4
Administering Department	Arch	**College**	College of Engineering COG
Module Leader	Dr. Ammar Saleh Ashour Dr. Anas Hameed Majeed M.Sc. Hala Hussain Mousa	**e-mail**	ammar.ashour@coeng.uobaghdad.edu.iq anas.h.majeed@coeng.uobaghdad.edu.iq hala.musa@uobaghdad.edu.iq
Module Leader's Acad. Title	Lecturer	**Module Leader's Qualification**	Ph.D.
Module Tutor	None	**e-mail**	None
Peer Reviewer Name	Dr. Ghada Musa	**e-mail**	Ghada.alslik@coeng.uobaghdad.edu.iq
Review Committee Approval	01/09/2024	**Version Number**	1.0

Relation With Other Modules
العلاقة مع المواد الدراسية الأخرى

Prerequisite module	Architectural Design and Graphics 3	**Semester**	2
Co-requisites module	Architectural Design 5	**Semester**	5

Module Aims, Learning Outcomes and Indicative Contents
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Aims أهداف المادة الدراسية	**The principle of this course is to introduce and enable the student to design a complete project, from a sketch to working drawings. This aim is done through:** 1- Support the practical design projects for the student designs with theoretical background. 2- Be able to do site surveys and studies. 3- Be able to do studies related to a specific project program. 4- Be able to design a specific program. 5- Design with understanding the surroundings impact. 6- Be able to understand different design approaches and methods. 7- Understand the impact of social and cultural environment. 8- Understand the impact of weather and natural environment. 9- Understand heritage and traditional architecture and their impact on design. 10- Be able to understand basic load bearing system and design with it. 11- Be able to understand building services 12- Be able to understand interior and exterior space relationship 13- Be able to design interior spaces layouts and details 14- Be able to understand and design project landscape 15- Be able to design and present the project in an expressive way. 16- Be able to communicate and discuss his or her ideas.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	Design program presents the most needed design that is the school design with all its requirements, containing studies, theories, and different design approaches (functional- environmental- services- aesthetic & expressional).
Indicative Contents المحتويات الإرشادية	**Indicative content includes the following:** Part A – lecture –Theory part Studying the importance of project's site and its dimensions, and the impact of surroundings as well as social and natural environment. Studying properties of exterior spaces and courts, also discussing the properties of interior spaces. Exploring the functional requirements of school, and studying the heritage influences. Getting to know the constructional methods including structure (especially loadbearing), sewages, and contemporary specializations. Studying furniture and landscape standards. Exploring aesthetic values and materials of elevations. Part B – practical part Designing Multi-functional low-rise Project project and completing all its stages which includes producing a report of influences and requirements, going through stages of developing design, and submitting a full presented project.

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم	
Strategies	The main strategy that will be adopted in delivering this module is to encourage students' to participate in different stages of design practice. This demands continuous submissions and communication that contain architectural drawing sheets, reports, graphic presentation, virtual presentation, and model making. At the same time these points ensure refining and expanding student's critical thinking skills which will be achieved through academic lectures, studio presentations, discussions, and analysis with students, also field visits and group working.

Student Workload (SWL)
الحمل الدراسي للطالب

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	155	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	10.3
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	95	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	6.3
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	250		

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Report**	3	5% (5)	1, 2	from 1 to 9
	Homework	11	20% (20)	3, 4, 5, 6	from 6 to9
	Day sketch	2	10% (10)	5, 8	from 5 to 15
	Class work	2	5% (5)	4, 7	from 5 to 15
Summative assessment	**Midterm**	4	10% (10)	7, 8	from 5 to 15
	Multi-functional low-rise Project (Final)	1	30% (30)	14	All especially 15
	Multi-functional low-rise Project (pre-final)	7	10% (10)	12, 13	10, 11, 16
	Multi-functional low-rise Project [pre-lim. (01+02]	1	5% (5)	10,11	10,11, 16, 15
	Final Exam	1	5% (5)	15	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Multi-functional low-rise Project: Study (group work: function, environment, expression, structure, similar examples)
Week 2	Multi-functional low-rise Project: Study (upgrading study reports through discussion and analysis / submission)
Week 3	Multi-functional low-rise Project: Concept (first concept as sketches, diagrams, and 3D model)
Week 4	Multi-functional low-rise Project: Concept (upgrading concept through plans and model)
Week 5	Multi-functional low-rise Project: Development of concept/ upgrading of plan and section/ furnishing
Week 6	Multi-functional low-rise Project: Upgrading plans and sections proposals.
Week 7	Multi-functional low-rise Project: Upgrading elevations and prespectives proposals
Week 8	Multi-functional low-rise Project: Prelim 01.
Week 9	Multi-functional low-rise Project: upgrading project according to staff notices after Prelim 01.
Week 10	Multi-functional low-rise Project: Prelim 02.
Week 11	Multi-functional low-rise Project: upgrading project according to staff notices after Prelim 02.
Week 12	Multi-functional low-rise Project: Pre-final presentation (Sheets / model/ other techniques).
Week 13	Multi-functional low-rise Project: upgrading project according to last staff notices.
Week 14	Multi-functional low-rise Project: Final presentation.
Week 15	Semester Exam.
Week 16	--------

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	-------	
Recommended Texts	○ Architectural Graphic Standards ○ Neufert Architect's Data ○ Architecture: Form, Space, and Order/ F. Ching ○ Architectural Graphics/ F. Ching ○ Interior Design Illustrated/F. Ching ○ Design Strategies in Architecture: An Approach to the Analysis of Form/ G. Baker ○ Design and Analysis/ B. Leupen	Yes Yes Yes Yes Yes

	○ Analysing Architecture/ S. Unwin ○ Traditional Multi-functional low-rise Projects in Baghdad/ Ihsan Fathi	
Websites	https://www.pinterest.com/aminaalghailani/new-Multi-functional low-rise Project-design/ https://www.mojohomes.com.au/best-selling-home-designs https://fanack.com/ar/iraq/culture-of-iraq/iraqs-courtyard-Multi-functional low-rise Projects-a-cultural-heritage-to-behold/ https://folkculturebh.org/ar/?issue=25&page=article&id=476	

APPENDIX:

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

Note:

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	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	ARCH COMMUNICATION FREEHAND 4			**Module Delivery**	
Module Type	CORE			☐ **Theory** ☒ **Lecture** ☐ **Lab** ☒ **Tutorial** ☒ **Practical** ☐ **Seminar**	
Module Code	ARCH2202				
ECTS Credits	2				
SWL (hr/sem)	50				
Module Level	2		**Semester of Delivery**	4	
Administering Department	Arch		**College**	CEC	
Module Leader	Ammar Salim		**e-mail**	ammar.salim@coeng.uobaghdad.edu.iq	
Module Leader's Acad. Title	/		**Module Leader's Qualification**	/	
Module Tutor	/		**e-mail**	None	
Peer Reviewer Name	/		**e-mail**	/	
Review Committee Approval	[redacted]		**Version Number**	1.0	

Relation with Other Modules
العلاقة مع المواد الدراسية الأخرى

Prerequisite module	Communication Skills Freehand 2	**Semester**	1,2
Co-requisites module	None		

Module Aims, Learning Outcomes and Indicative Contents
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Aims أهداف المادة الدراسية	1. Developing the student's skills in using Acrylic colors with advanced techniques. 2. Developing the student's ability to control the implementation of complex shapes and advanced color techniques. 3. Practical practice of how to display projects through perspectives implemented in colors and benefit from them in design materials 4. Strengthening the student's skill in transforming what is going on in his mind into an image that can be perceived through free drawing 5. Introducing the student to the most important artistic movements and Iraqi, Arab and foreign artists. This comes through theoretical lectures accompanied by a visual display of their works, in addition to visits made by students to places where artworks are displayed inside Iraq.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1- Learn about Acrylic colors and how to draw with them using all techniques. 2- The ability to draw different shapes and elements with watercolors. 3- The ability to draw realistic buildings according to the single or dual perspective of vanishing points. 4- The ability to draw elements, shapes and imaginary buildings with the correct drawing perspective and color them with Acrylic colors. 5- The ability to draw architectural projects with Acrylic colors.
Indicative Contents المحتويات الإرشادية	1. Lectures & tutorials (in-class drawing plans & sketches for the required project). 2. Reports & presentations (case studies, data & analyses for the required project). 3. Homework and Assignments. 4. In-class questions and Discussions (general and private criticism). 5. Extracurricular Activities. 6. Seminars 7. In- and Out-Class oral conservations. 8. Trips & site visits for a similar project that relates to the required project. 9. Tests and Exams.

Learning and Teaching Strategies
استراتيجيات التعلم والتعليم

Strategies	Type something like: The main strategy that will be adopted in delivering this module is to developing the student's ability in the basics of selecting the suitable composition and color, Training the student's eye to recognize the tiny details in the tangible real world and to recognize the percentages, movements, shade and shadow, light and color. It will be achieved through academic lectures and intellectual discussions with students, submitting reports and assignments, field visits, and making architectural drawings.

Student Workload (SWL)
الحمل الدراسي للطالب

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	49	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	26	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	75		

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Drawings**	10	30% (30)	2,3,4,5, 7,8, 11,12,13,14	LO # all
	Assignments	1	5% (5)	10	LO # 10
	Report	1	5% (5)	10	LO # 7,8
Summative assessment	**day-sketches**	3	30% (30)	6,9,15	LO # 3,4,5 LO # 7,8 LO # 11,12,13,14
	Final projects	2	30% (30)	9,15	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي

	Material Covered
Week 1	- Defining the principles of modern acrylic colors painting and its types, with the types of brushes and papers used, with direct application of them.
Week 2	- Extracting binary and tertiary colors, an exercise on this and emphasizing the intensity of the color. - Homework: drawing 1
Week 3	- Extracting light values (Tones) Colors are the color wheel. Comparing colors from the number of possible light values for them. - Homework: drawing 2
Week 4	- Another still life exercise with natural Acrylic colors, then a lecture on general composition and construction in the painting. - Homework: drawing 3
Week 5	- Exercise on color reflections in materials. Drawing a still life composition using plants. - Homework: drawing 4
Week 6	- Test: day-sketches 1
Week 7	- Drawing trees from nature with Acrylic colors. - Homework: drawing 5
Week 8	- Studying the details of the building landscape as an integral part of any building (site panorama) and at different depths. - Homework: drawing 6
Week 9	- Drawing the surrounding environment of the buildings with an evaluation of the previous stage. - Report related to the lesson.
Week 10	- Explanation of the basics of perspective in buildings with one vanishing points, with an exercise in drawing a perspective of a building with one vanishing point in acrylic colors. - Homework: drawing 7
Week 11	- Drawing perspective for a building in tow vanishing points. - Homework: drawing 8
Week 12	- Test: day-sketches 2
Week 13	- Drawing interior perspective in acrylic colors. - Homework: drawing 9
Week 14	- Sketching with acrylic colors of several kinds of trees (3 kinds) and confirming the differentiation of the kinds. - Homework: drawing 10
Week 15	- Final projects 2 - Test: day-sketches 3

Week 16	-

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	- Basic educational resources and illustrations of models of building facades and others in specialization and among them - Study, Muhammad Abdallah and Adly Muhammad Abd. The general lassie of free hand drawing, Arab Academy Library, 1st Edition, 2011	Yes Yes
Recommended Texts	- Ernst Neufert, Architects' Data, 2012 - Francis D. K. Ching, Steven P. Juroszek, Architecture: Form, Space, and Order, 2004	Yes Yes
Websites	Different architectural websites. - Arch daily : https://www.archdaily.com/ - Arch h2o : https://www.arch2o.com/ - Arch space : https://thearchspace.com/ - Dezeen : https://www.dezeen.com/ - Architizer : https://architizer.com/ - أركين : https://www.arcign.com/projects/	

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	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Electrical Engineering	

MODULEDESCRIPTORFORM نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية				
Module Title	**Building construction 2**		**Module Delivery**	
Module Type	**Core**		■ **Theory** ■ **Lecture** ☐ **Lab** ☐ **Tutorial** ■ **Practical** ☐ **Seminar**	
Module Code	**ARCH2206**			
ECTS Credits	**4**			
SWL (hr/sem)	**100**			
Module Level	UGII	**Semester of Delivery**	4	
Administering Department	ARCH	**College**	University of Baghdad	
Module Leader	**Maysaa Izyara Mohammed**	**e-mail**	maysaa.ziarah@coeng.uobaghdad.edu.iq	
Module Leader's Acad. Title	LECTURER	**Module Leader's Qualification**	M.Sc. in architectural engineering	
Module Tutor	**Sharq Jafer Hadi Al-Yasiri** **Maye Mohammed Baqier Alsunbili**	**e-mail**	sharq.alyassiry@coeng.uobaghdad.edu.iq maye_mbk@coeng.uobaghdad.edu.iq	
Peer Reviewer Name		**e-mail**		
Review Committee Approval		**Version Number**		

Relation with other modules العلاقة مع المواد الدراسية الاخرى			
Prerequisite module	Build..Constrct.1	**Semester**	3
Co-requisites module	Build..Constrct.3	**Semester**	5

Module Aims, Learning Outcomes and Indicative Contents أهداف
المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Aims أهداف المادة الدراسية	1. Introducing the student to some aspects of technical systems related to building information that the architect must know in order to develop his design and construction capacity. 2. This course deals with the basic concept of Building construction and Simple types of building constructions are introduced to the students.. 3. To understand how foundations and structural plans and sections are working and drawing. 4. This is the basic subject for all simple concrete floors and roofs , detailed sections in buildings 5. To understand how load bearing walls and Jack arching roofing are working 6. To understand buildings including doors and windows, stairs and partitions
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1- Graduates will be able to carry out all types and scales of structure, with different types in different scale. 2- The student is introduced to the solid structural system and the use of local bricks that are suitable for the environment. 3- Forming a knowledge base that qualifies the student to understand local materials, their expressive properties, and ways of using them in construction. 4- Graduates will be able with other architects in group work, or work with other specializations in inter- disciplinary groups, in construction studies. 5- Graduate will be able to lead and positively interact, with other engineers working on any project, like structural, sanitary, electrical mechanical or surveying engineers.. 6- Graduates will be able to make a working drawing set.

Indicative Contents **المحتويات الإرشادية**	Indicative content includes the following: The semester includes two parts, the first is theoretical, which deals with general principles (particularly the solid system), and the second is practical, dealing with ways of expressing structural problems in an architectural language as an application of the theoretical material. **A-Theory Part**: 1- Focus on solidstructure system Using the Brick work which appropriate to our Environment and local Architect to be formed the knoll edge base prepared the student .under tending the Execution operations. 2- The theoretical side consists of two parts: • Construction systems (solid –skeletal –surface). • the basic structural elements of the building including Walls, and partitions ;Walls classify Cat ion contractually ; Masonry walls (brick work) principles of bonding; Bond and mauling. [15 hrs] **B-The practical part consists of:** • Enlarged details of the types of connection and the various problems of connection, how to obtain a load-bearing wall or partition, and how to make a window in it • With the work of details of the floors and the foundation of all kinds, with the required environmental treatments

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

Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	64	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	36	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	2
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	100		

Module Evaluation تقييم المادة الدراسية

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

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري

	Material Covered
WEEK 1	**Remembering the important information was given.**
WEEK 2	**Stairs: term sand type of stairs.**
WEEK 3	**Principle and rule the design of comfort stair.**
WEEK 4	**Details of the Concert stair.**
WEEK 5	**Details of the stairs (steel and brick).**
WEEK 6	**The type of the handrail.**
WEEK 7	**The circular and steel stairs+ Quiz.**

WEEK 8	**The doors: the pars of doors.**
WEEK 9	**The material of doors.**
WEEK 10	**The Extension of doors.**
WEEK 11	**The windows: the parts of windows.**
WEEK 12	**The metrical of windows.**
WEEK 13	**The Extension of windows.**
WEEK 14	**Finishes: the Finishes of walls, floors and roofs**
WEEK 15	**Preparatory Week**
WEEK 16	**Final Exam**
Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	**Details of water draining in the roof**
Week 2	**Plans :The foundations & the ground floor scale 1:50**
Week 3	**Plans : the first floor & the roof floor scale 1:50**
Week 4	**the I beam distribution plan for the ground floor, the I beam distribution plan for the first floor.**
Week 5	**Day sketch1**
Week 6	**Sections + elevations scale 1:50**
Week 7	**Stairs :plans +sections (concrete) enlarged details scale 1:20 1:10**
WEEK 8	**Stairs :plans +sections (I beam) enlarged details scale 1:20 1:10**
WEEK 9	**Enlarged door details (wood+metal) scale 1:10 Table of doors**
WEEK 10	**Enlarged window details (wood+metal) scale 1:10 Table of windows**
WEEK 11	**Finish details (floors +walls +roofs) and corner treatment. scale 1:10**
WEEK 12	**Sanitary plans and details scale 1:50**

WEEK 13	**Day sketch2**
WEEK 14	**Enlargement detail of bathroom. scale 1:20**
WEEK 15	**Preparatory Week**
WEEK 16	**Final Exam**

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Building Constriction /Atef Al sohairi/ is t.pub .1991.	Yes
Recommended Texts	1. Building Constriction/ArtenLifon,Zoher sake, is' t .pub.1983. 2. Mitchell's Elementary Building Constriction / Raymond motley /1959. 3. Building Craft series: brick work /w. b. ma Kay/1945. 4. Building Construction Details /Practice Drawings/Hans bans\1983 5. New Architecture and Technology /Gylula Sebastian/2003 6. Mitchells –introduction to building -3rd edition ,2002	yes
Websites	-Arch daily • Arch h2o • Arch space dezeen	

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مخطط الدرجات

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	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information
معلومات المادة الدراسية

Module Title	HISTORY OF ARCH.,IRAQI ARCH.1	**Module Delivery**	
Module Type	C	☐ **Theory** ☒ **Lecture** ☐ **Lab** ☒ **Tutorial** ☒ **Practical** ☒ **Seminar**	
Module Code	ARCH2205		
ECTS Credits	3		
SWL (hr/sem)	75		
Module Level	2	**Semester of Delivery**	10 4
Administering Department	Arch	**College**	COG
Module Leader	SHATHA A. HASAN	**e-mail**	shatha.a.h@coeng.uobaghdad.edu.iq
Module Leader's Acad. Title	/	**Module Leader's Qualification**	/
Module Tutor	/	**e-mail**	None
Peer Reviewer Name	/	**e-mail**	/
Review Committee Approval		**Version Number**	1.0

Relation with Other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module		**Semester**	
Co-requisites module			
Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية			
Module Aims أهداف المادة الدراسية	**• The architecture of Sumer Akkad and the first Amorite Babylon and Assyria.** **• Architecture coming from abroad, such as Parthian, Seleucid, and Sassanid architecture.** **• Abbasid architecture and its development in its golden ages.** **• All the way to architecture after the fall of Baghdad, such as Seljuk and Ilkhanid architecture.**		
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	**Identify the nature of the emergence of the first civilizations, their buildings, and their settlement in Mesopotamia.** **• Tracking the development of architecture, which was influenced by differences in thought, belief, and geological materials present across the regions of Mesopotamia, the stages of development.**		
Indicative Contents المحتويات الإرشادية	tasks assigned to the student such as daily preparation, daily oral, monthly written exams, reports		
Learning and Teaching Strategies استراتيجيات التعلم والتعليم			
Strategies	1 Lectures. 2. Lessons. 3. Duties and reports. 4. Tests and examinations. 5. Questions and discussions in the classroom. 6. Other activities such as site visits		

Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	٣+٤٥	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	3
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	27	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	1.8
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	75		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative Assessment 45+3	**Project work**	1	5%	1	LO# (1-6)
	Quizzes	3	20%	٣,٦,٩	LO# (1-6)
	Project	1	5%	5,٨,١٢	LO# (4,6,11)
	Report	1	5%	13,14	LO# (4-8)
	Assignment	2	5%	٤،٧،١٠،2	LO# (4-8)
Summative Assessment 27	**Midterm exam**	3 hr	10%	11	
	Final exam	3 hr	50%		
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي	
	Material Covered
Week 1	Mesopotamian space in prehistoric times.
Week 2	Dawn of the Sumerian dynasties.
Week 3	The Mesopotamian space in the Akkadian era and the Third Dynasty of Ur.
Week 4	The Mesopotamian space in the ancient Babylonian era.
Week 5	Mesopotamian space in the Assyrian era. Modern Babylonian era.
Week 6	Urban architecture and confusion
Week 7	Remains of Sassanid and Seleucid buildings (Mada'in and Aqarquf)

Week 8	Islamic architecture in the Rashidun and Umayyad eras
Week 9	The first Abbasid era (Baghdad) and the second Abbasid era (Samarra)
Week 10	Iraqi architecture after the fall of the Abbasid Caliphate.
Week 11	Architecture of shrines, sacred scenes, and architecture of mosques.
Week 12	The architecture of inns, schools, and government buildings.
Week 13	Heritage houses.
Week 14	Examination
Week 15	Submission of reports

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	• The history of architecture in the land of Mesopotamia (Shatha Abbas) • Somer (Sittin Lloyd) • The history of the art of architecture in various eras (Sherif Youssef) • The history of architecture through the ages (Dr. Qabila Al-Maliki)	
Recommended Texts		
Websites	-	

APPENDIX:

GRADING SCHEME
مخطط الدرجات

Group	Grade	التقدير	Marks (%)	Definition
Success Group	**A** - Excellent	امتياز	90 - 100	Outstanding Performance

(50 - 100)	**B** - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX** – Fail	مقبول بقرار	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

Note:

NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	Baath Party crimes			**Module Delivery**	
Module Type	B			☒Theory ☒Lecture ☐Lab ☐Tutorial ☐Practical ☐Seminar	
Module Code	UOB105				
ECTS Credits	2				
SWL (hr/sem)	50				
Module Level		2	**Semester of Delivery**		4
Administering Department		All sections	**College**	Engineering	
Module Leader	Israa Abd Ali		**e-mail**	israa.a@coeng.uobaghdad.edu.iq	
Module Leader's Acad. Title		Assist. Professor	**Module Leader's Qualification**		Ph.D. israa Abd Ali
Module Tutor	Israa Abd Ali		**e-mail**		
Peer Reviewer Name		None	**e-mail**	None	
Scientific Committee Approval Date		1/09/2024	**Version Number**		1.0

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

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	The main objective is to study the crimes of the Baath Party in Iraq through its crimes, which have multiple forms: crimes against humanity, human rights violations, genocides, mass graves, the forced displacement of many members of the Iraqi people, the genocide of nature, which was represented by the draining of the marshes and the bulldozing of palm groves, and other topics that can be a starting point for the study..
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. Making the student aware of the importance of the historical context and how popular practices have evolved in order to establish a democratic system of government that guarantees equality in rights and obligations. 2. Making the student aware of his basic rights that he can freely exercise, and the obligations that he must follow without prejudice to the democratic system. 3. Guiding the student to exercise his rights according to international laws and the Iraqi constitution. 4. Teaching the student how to exercise his right to vote according to the type of system adopted. 5. Making the student aware of the importance of the democratic system and its role in protecting human rights. 6. Ensuring the emergence of an educated and aware generation that contributes to the dissemination of human rights in society. 7. Access to community applications and practices that ensure peaceful coexistence in one society. ١.
Indicative Contents المحتويات الإرشادية	لذلك ستحدد لمادة الجرائم (25) ساعة.

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	1. Explain the meaning of the vocabulary included in the material by the professor. 2. Give students a role to exercise their rights to express their opinion without prejudice and respect for the other opinion. 3. Organize practices inside the halls to simulate an electoral experience or address a

	specific issue that needs appropriate solutions by dividing students into groups and giving them roles in it. 4. Display video contents that contribute to breaking the routine of giving the lecture. 5. Conduct field visits to the most prominent organizations that sponsor human rights such as the International Commission for Human Rights, the branch of Amnesty International in Iraq, the High Commission for Human Rights and other state institutions. 6. Assign students to field and volunteer work in the care of human rights such as caring for orphanages, elderly homes, or women's homes, or contribute to an awareness-raising community activity...etc. The goal is to establish the principle of social solidarity and peaceful coexistence and strengthen community ties. 7. Assign students to prepare a report of their choice from among several topics presented to them that are applicable in society or address a specific humanitarian case.

Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	30	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	20	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	1
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**50**		

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Quizzes**	2	20% (20)	4, 11	LO# 1,2,3, 4
	Assignments	2	10% (10)	5, 12	LO# 4, 5 , 7
	Projects / Lab.				
	Report	1	10% (10)	12	LO#5, 7
Summative assessment	**Midterm Exam**	2hr	10% (10)	8	1-٧
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	The concept of crimes and their types
Week 2	The position of the Iraqi Criminal Court on the violations of the defunct Baath regime
Week 3	Types of international crimes
Week 4	The Baath regime, psychological violations and their consequences
Week 5	The Baath regime, social violations and their consequences
Week 6	The Baath regime's position on religious institutions
Week 7	Baath regime and violation of human rights laws
Week 8	Exam
Week 9	Political and military violations of the Baath regime
Week 10	Baath regime environmental violations/war and radioactive pollution
Week 11	Destruction of cities and villages
Week 12	Drying up marshes and orchards
Week 13	Legal and Sharia Conditioning of Mass Graves Crimes
Week 14	Genocide graves arranged by the Baath regime
Week 15	Chronological classification of mass grave crimes
	Exam

Learning and Teaching Resources

مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	1- Hussein Aliwi Nasser Al-Ziyadi, Geography of Crime, Principles and Foundations, Dar Al-Hasad, Damascus, 2015 2- 2- Hussein Aliwi, Abbas Attia Al-Quraishi, Environmental Crimes during the Baathist Regime, Dar Al-Kafeel, Karbala, 2023. Jundi Abdul Malik, Criminal Encyclopedia, Part 3, Dar Ihya Turath Al-Arabi, Beirut, 1990	Yes
Recommended Texts		No
Websites		

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

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Arabic Language**			**Module Delivery**	
Module Type	**Support or related learning activity**			☒ **Theory** ☐ **Lecture** ☐ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	UOB103				
ECTS Credits	**2**				
SSWL (hr/sem)	32				
USSWL (hr/sem)	**18**				
SWL (hr/sem)	**50**				
Module Level	3		**Semester of Delivery**	5	
Administering Department	Type Dept. Code		**College**	Type College Code	
Module Leader	أفراح ذياب صالح		**e-mail**	Afrah.t@uobaghdad.edu.iq	
Module Leader's Acad. Title	مدرس		**Module Leader's Qualification**	ماجستير	
Module Tutor	-		**e-mail**	-	
Peer Reviewer Name	-		**e-mail**	-	
Scientific Committee Approval Date			**Version Number**	1.0	

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	Arabic 1	**Semester**	1
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	1. العمل على النهوض باللغة العربية والمحافظة عليها من الخطأ 2. معرفة الطالب جمالية الأسلوب القرآني وإعجازه البلاغي ليكون النموذج الأمثل في الصياغة والتعبير 3. تنمية مهارات الطالب الإملائية 4. مساعدة الطالب على معرفة الطريقة الصحيحة في كتابة الاعداد وقراءتها وكتابة الهمزة بأنواعها 5. مراجعة قواعد اللغة العربية لتجنب وقوع الطالب في الغلط النحوي. 6. تنمية مهارات الطالب على تذوق جمال التعبير الأدبي ومحاكاة النصوص الجميلة في الكتابة 7. مساعدة الطالب على تمييز الأغلاط اللغوية الشائعة وإرشاده الى تصويبها 8. تنمية مهارة الحفظ والإلقاء
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. حب الطالب للغة العربية والاعتزاز بها 2. اكتساب الطالب القدرة على فهم الاعجاز اللغوي في النصوص القرآنية والإحساس بجماليتها 3. معرفة الطالب طريقة التفريق بين أنواع الهمزة الأولية و المتوسطة والمنتهية والقدرة غلى كتابتها بالشكل الصحي دون الوقوع في الخطأ 4. قدرة الطالب على التفريق بين الظاء والضاد وعدم الوقوع في إشكالية الخلط بينهما 5. قدرة الطالب على الكتابة دون الوقوع في الخطأ الإملائي والنحوي 6. تمكن الطالب من قراءة النصوص الأدبية بلغة فصحى صحيحة ومضبوطة بالحركات 7. القدرة على التعبير الأدبي بلغة جميلة سليمة. 8. تمكن الطالب من معرفة أكثر من خمسين خطأ شائعا ومعرفة تصويبها.
Indicative Contents المحتويات الإرشادية	

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	32	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	18	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	1
Total SWL (h/sem)	**50**		

الحمل الدراسي الكلي للطالب خلال الفصل	

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	15		1،2،3،4
	Assignments	2	15		5،6،7،8
	Projects / Lab.				
	Report				
Summative assessment	Midterm Exam	1hr	30% (10)		
	Final Exam	2hr	70% (50)		all
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي النظري

	Material Covered
Week 1	درس بيان أهمية اللغة العربية بصورة عامة وأهميتها لطلاب غير الاختصاص
Week 2	أقسام الكلام والمعرب والمبني من الأسماء والأفعال
Week 3	المثنى والملحق به
Week 4	أنواع الجموع وما يلحق بها
Week 5	الأسماء الحمسة
Week 6	كتابة الأعداد
Week 7	الهمزة الأولية – همزتا القطع والوصل
Week 8	الهمزة المتوسطة والمنتهية
Week 9	الإعجاز اللغوي في القرآن الكريم نماذج وتطبيقات
Week 10	الأسماء الخمسة
Week 11	اللأفعال الحمسة
Week 12	الأغلاط اللغوية الشائعة
Week 13	كتابة الظاء والضاد والتاء المربوطة والهاء
Week 14	درس التعبير ونماذج من أساليب أشهر الكتاب الأدبية
Week 15	قصيدة لشاعر قديم ولشاعر حديث
Week 16	درس الإلقاء

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

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	النحو الواضح /علي الجارم لمسات بيانية/ فاضل السامرائي منهج اللغة العربية للأقسام غير الاختصاص	نعم
Recommended Texts	معجم الأخطاء اللغوية والنحوية الشائعة / خضر أبو العينين معاني النحو / فاضل السامرائي الأعمال الشعرية الكاملة /نازك الملائكة / المعلقات	نعم
Websites	https://ketabpedia.com	

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

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

Ministry of Higher Education and Scientific Research - Iraq
University of Baghdad
College of Engineering
Department of Architectural Engineering

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information
معلومات المادة الدراسية

Module Title	ARCHITECTURAL DESIGN 5	**Module Delivery**	
Module Type	CORE	☒ **Theory** ☒ **Lecture** **Lab** **Tutorial** ☒ **Practical** ☒ **Seminar**	
Module Code	ARCH3101		
ECTS Credits	10		
SWL (hr/sem)	250		

Module Level	UGIII	**Semester of Delivery**	5
Administering Department	Arch	**College**	College of Engineering COG
Module Leader	Dr. Osamah A. AL-tameemi Dr. Fawzia Irhayyim Hussein Dr. Sally Fakhri Khalaf	**e-mail**	osamah.altameemi@oeng.uobaghdad.edu.iq fawziaasadi@coeng.uobaghdad.edu.iq s.fakhri@coeng.uobaghdad.edu.iq
Module Leader's Acad. Title	Asst. Prof.	**Module Leader's Qualification**	Ph.D.
Module Tutor		**e-mail**	
Peer Reviewer Name	Dr. Ghada Musa	**e-mail**	Ghada.alslik@coeng.uobaghdad.edu.iq
Review Committee Approval	1/09/2024	**Version Number**	1.0

Relation With Other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	Architectural Design 4	**Semester**	4
Co-requisites module		**Semester**	
Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية			
Module Aims أهداف المادة الدراسية	**The principle of this course is to introduce and enable the student to design a complete project, from a sketch to working drawings. This aim is done through:** 1- **Deepen knowledge in architectural design for complex and multi-functional projects** by understanding the operational and service relationships between different spaces. 2- **Focus on construction decisions and implementation technologies** as a core part of the design proposal, through projects with short- and medium-term construction potential using reinforced concrete or steel structures. 3- **Enhance practical understanding of essential construction details** in alignment with the subject of "Building Assembly (III)" throughout the academic year. 4- **Engage with multi-story projects in the second semester** to learn design principles for repetitive functional requirements in educational, administrative, residential, and commercial buildings. 5- **Review and apply construction details specific to multi-functional buildings**, reinforcing the student's technical comprehension. 6- **Apply knowledge gained in building services**, such as ventilation, lighting, and sanitary systems taught during the first and second semesters. 7- **Develop the ability to make quick design decisions** through short tests aimed at evaluating the student's responsiveness in limited time scenarios.		
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	• Ability to design complex and multi-functional architectural projects, • Capability to make informed construction decisions. • Proficiency in representing essential construction details through • in designing multi-story buildings that meet repetitive . Integration of building services (sanitary, ventilation, and lighting)		
Indicative Contents المحتويات الإرشادية	**Indicative content includes the following:** Part A – lecture –Theory part Studying the importance of the project's site and its dimensions, and the impact of surroundings, as well as the social and natural environment. Studying properties of exterior spaces and courts, also discussing the properties of interior spaces. Exploring the functional requirements of the school and studying the heritage influences. Getting to know the construction		

	methods, including structure (Column and bridge system). Exploring aesthetic values and materials of elevations. Part B – practical part First project: choosing a multi-story project of an administrative, academic, or residential nature, containing repeated floors through which the student learns about the set of construction details adopted in such construction structures (reinforced concrete or steel) with an integrated application of sanitary engineering systems, air conditioning, and interior lighting engineering.
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	• **Project-Based Learning:** Students are assigned realistic design projects with functional and structural complexity, integrating theoretical knowledge with practical application. • **Interactive Design Studio:** A studio environment that fosters open discussion and guided individual and group-based problem-solving throughout the design process. • **Real Case Study Analysis:** Analyzing existing multi-story, multi-functional projects to understand design logic, structural systems, and service integration. • **Interdisciplinary Integration:** Incorporating content from services, building assembly, and construction courses into the design proposal to promote holistic thinking. • **Hands-on Workshops:** Conducting practical workshops on construction details, executive drawings, physical modeling, and digital tools. • **Time-Constrained Simulations:** Short design tests that simulate real-world time pressure, enhancing quick decision-making and adaptability. • **Critique-Based Learning:** Regular jury and review sessions to build critical thinking and improve presentation and architectural justification skills. • **Collaborative Learning:** Encouraging teamwork, especially during the conceptual development phase, to promote exchange of ideas and shared design responsibility.

Student Workload (SWL)

الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	155	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	10.3
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	95	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	6.3
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	250		

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Report**	3	5% (5)	1, 2	from 1 to 9
	Homework	11	20% (20)	3, 4, 5, 6	from 6 to9
	Day sketch	2	10% (10)	5, 8	from 5 to 15
	Class work	2	5% (5)	4, 7	from 5 to 15
Summative assessment	**Midterm**	4	10% (10)	7, 8	from 5 to 15
	Multi-functional low-rise Project (Final)	1	30% (30)	14	All especially 15
	Multi-functional low-rise Project (pre-final)	7	10% (10)	12, 13	10, 11, 16
	Multi-functional low-rise Project [pre-lim. (01+02]	1	5% (5)	10,11	10,11, 16, 15
	Final Exam	1	5% (5)	15	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي النظري

	Material Covered
Week 1	Multi-functional multi-story Project: Study (group work: function, environment, expression, structure, similar examples)
Week 2	Multi-multi-story high -rise Project: Study (upgrading study reports through discussion and analysis / submission)
Week 3	Multi-functional multi-story Project: Concept (first concept as sketches, diagrams, and 3D model)
Week 4	Multi-functional multi-story Project: Concept (upgrading concept through plans and model)
Week 5	Multi-functional multi-story Project: Development of concept/ upgrading of plan and section/ furnishing

Week 6	Multi-functional multi-story Project: Upgrading plans and sections proposals.
Week 7	Multi-functional multi-story Project: Upgrading elevations and prespectives proposals
Week 8	Multi-functional multi-story Project: Prelim 01.
Week 9	Multi-functional multi-story Project: upgrading project according to staff notices after Prelim 01.
Week 10	Multi-functional multi-story Project: Prelim 02.
Week 11	Multi-functional multi-story Project: upgrading project according to staff notices after Prelim 02.
Week 12	Multi-functional multi-story Project: Pre-final presentation (Sheets / model/ other techniques).
Week 13	Multi-functional multi-story Project: upgrading project according to last staff notices.
Week 14	Multi-functional multi-story Project: Final presentation.
Week 15	Semester Exam.
Week 16	--------

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	-------	
Recommended Texts	○ A Pattern Language. by Christopher Alexander ○ Design Strategies in Architecture: An Approach to the Analysis of Form/ G. Baker ○ Complexity and Contradiction in Architecture by Robert Venturi ○ "Architectural Design: A Process-Oriented Approach" by Damon G. Douglas ○ "The Architecture of the City" by Aldo Rossi ○ "The Image of the City" by Kevin Lynch	Yes Yes Yes Yes Yes Yes
Websites	https://www.pinterest.com/aminaalghailani/new-Multi-functional low-rise Project-design/ https://www.mojohomes.com.au/best-selling-home-designs https://fanack.com/ar/iraq/culture-of-iraq/iraqs-courtyard-Multi-functional low-rise Projects-a-cultural-heritage-to-behold/ https://folkculturebh.org/ar/?issue=25&page=article&id=476	

APPENDIX:

GRADING SCHEME مخطط الدرجات				
Group	**Grade**	التقدير	**Marks (%)**	**Definition**

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

NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.



ملاحظة: هذا النموذج تم وضعه وتقديمه من قبل مديرية ضمان الجودة في وزارة التعليم العالي والبحث العلمي

	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information
معلومات المادة الدراسية

Module Title	BUILDING CONSTRUCTION 3	**Module Delivery**	
Module Type	CORE	☒ **Theory** ☒ **Lecture** **Lab** **Tutorial** ☒ **Practical** **Seminar**	
Module Code	ARCH3106		
ECTS Credits	4		
SWL (hr/sem)	100		
Module Level	3	**Semester of Delivery**	5
Administering Department	Arch	**College**	Engineering
Module Leader	Dr. Anas Hameed Majeed	**e-mail**	anas.h.majeed@coeng.uobaghdad.edu.iq
Module Leader's Acad. Title	Lecturer	**Module Leader's Qualification**	Ph. D.
Module Tutor	None	**e-mail**	None
Peer Reviewer Name	Dr. Ahmed A.Kubba	**e-mail**	~~Dr. Ahmed A.Kubba @yahoo.com~~
Review Committee Approval		**Version Number**	1.0

Relation With Other Modules

العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	Building Construction 2	**Semester**	1
Co-requisites module	None	**Semester**	\

Module Aims, Learning Outcomes and Indicative Contents
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Aims أهداف المادة الدراسية	This course aims to identify the importance of the skeletal system of multi-stories concrete structure and its close relationship with the process of architectural design where choosing the suitable structural skeleton for each building directly interacts with the building's function and exterior final form. The course also deals with the importance roles of the architectural details in the building design and their importance in the process of implementation to ensure the correctness of implementation. This process increases the designer's accurate presentation of the basic features of the building as well. In addition, The course touches on the types of plans produced by the architect like the designing, working, manufactured and existing plans and whatever each of these plans requires to be appropriate for the purpose for which they were found. The scientific part of the course involves teaching the student the method of producing and organizing the working detailed plans in general and how to present them and concentrating on multistory structures built by reinforced concrete structures, in addition to identifying the student with the system of organizing and encoding plans (CL/SFB) being one of the international system in the engineering bureaus and consultative parties. The course includes theoretical lectures and applied projects and three term examinations and daily practical quizzes and day-sketches inside studios. The course of the theoretical lectures, which are shown in the table, are included within every week during the first semester and they are applied through two projects. The first one is an identifying project of small area to know the skeletal structure and to make a comparison between this structure and the load bearing system. The second project aims to train the students to prepare detailed plans of a multistory building built by reinforced concrete in all their details. Moreover, it is possible to specify the final three weeks of each designing project to make detailed plans for a selected part of the project which will provide a chance for the students to identify the various structural solutions and complete details.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. Achieve and improve the students' imagination for supporting their conceptual framework of multi-stories concrete structure. 2. Learn how develop the students' concepts into active design project of multi-stories concrete structure that can be implemented in the reality. 3. Develop their ability to put design that meets reasonable costs and efforts. 4. The student will be able design and draw by different tools and

	materials. 5. Build the students' capacity to work with a team to integrate their efforts with the others. 6. Students will be able to face any constructive problems in design, profession or study, in a creative intelligent way, and suggest types of innovations to previous outputs. 7. With communication skills, the students will be able to communicate with people related to building construction through architectural field via drawing skills and digital skills. 8. The student will learn the nature of buildings and the structural behavior. 9. The student will learn the principles of concrete foundations. 10. The student will learn the principles of concrete floors structures. 11. The student will learn the principles of vertical loads transmission systems. 12. The student will learn the principles of Core & Conveying Systems. 13. The student will learn the principles of external walls. 14. The student will learn the principles of Internal Divisions. 15. The student will learn the principles of concrete stairs, ramps and ladders.
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. **Part A –Theory part (lecture)** - A project introducing function and basic structural knowledge. - A whole building construction, with inside and outside treatment and specific functions of details. **Part B – Practical part (homework and classwork)** - The applied exercise of a project introducing function and basic structural knowledge. - The applied exercise of a whole building construction, with inside and outside treatment and specific functions of details.
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their practical and constructive thinking skills. It will be achieved through academic lectures and intellectual discussions with students, exercises, field visits, and making working drawing sheets.

Student Workload (SWL) الحمل الدراسي للطالب

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	100	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	5
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل		**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	100		

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Concept exercises**	2	4% (4)	2,8	LO # 1-6
	Development stages	7	14%(14)	2,3,8,9,10,11 ,12	LO # 1-6, 8 and 9
	Day-sketch	2	16% (16)	6, 11	LO # 1,3,4,5,and 6 for first day sketch And all for the second day-sketch
	Studying Report	2	6% (6)	1,7	LO # 9
Summative assessment	**Prelim - presentation**	2	15% (15)	3,13	All
	Pre-final presentation	2	20% (20)	4,14	All
	Final presentation	2	25% (25)	5,15	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي

	Material Covered
Week 1	Identify the aims of the subject, its importance, its direct relationship with architectural design and the importance of the architectural details and arranging and presenting the plans in their final form.
Week 2	The nature of the building and the building units and elements that compose the building, the

	building (structural) systems and how to gather the building elements and the types of joints among them.
Week 3	The concrete material and the reinforced concrete, its types and structural specifications, and how can we make use of its characteristics and abilities to compose.
Week 4	The structural behavior of the basic building elements and parts of the building concerning the structural skeleton and the forces influencing it and the nature of loads imposed on the building.
Week 5	The types of the stresses imposed on the building, the intensity of stress, the moments and the influencing forces on the building and their impact
Week 6	The foundations and their requirements and their selection's principles, their types, and differential settlement and why it happens and how it is treated, with concentrating on the raft foundation and the methods of tanking protection, and how to construct basements of multistory buildings.
Week 7	Systems of loads transmission in vertical buildings
Week 8	External envelop: it includes the exterior walls of the building and their functional and environmental requirements and their types and concentrating on the systems of the exterior walls of multistory buildings : infill, cladding and facing
Week 9	Internal divisions: it includes partitions, light weight walls which are easily demounted and constructed. Internal ceilings and suspended ceilings and suspended floors
Week 10	-Developing the exercise, and explain the plan. -Developing the exercise and the plan.
Week 11	-Day Sketch…… Exam - Developing the exercise.
Week 12	Developing the design concept and explain the elevations
Week 13	preliminary presentation / individual criticism and developing the concept
Week 14	Pre-final presentation
Week 15	Final presentation

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	-Ernst Neufert, Architects' Data, 2012 -Francis D. K. Ching, Steven P. Juroszek, Architecture: Form, Space, and Order, 2004	Yes
Recommended Texts	Recommended books and references (scientific journals, reports…): -Many local and international projects, and many examples -Annual	

	-Architectural record	
Websites	Different architectural websites. -Arch daily : https://www.archdaily.com/ -Arch h2o : https://www.arch2o.com/ -Arch space : https://thearchspace.com/ -Dezeen : https://www.dezeen.com/ -Architizer : https://architizer.com/ - أركين : https://www.arcign.com/projects/	

APPENDIX:

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

Note:

NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information
معلومات المادة الدراسية

Module Title	COMPUTER DIGITAL ARCHITECTURE1	**Module Delivery**	
Module Type	BASIC	**Lab** **Practical**	
Module Code	ARCH3107		
ECTS Credits	5		
SWL (hr/sem)	125		

Module Level	UGIII	**Semester of Delivery**	5
Administering Department	Arch	**College**	Engineering
Module Leader	Hisham Alaa Husain	**e-mail**	hisham.husain@coeng.uobaghdad.edu.iq
Module Leader's Acad. Title	Lecturer	**Module Leader's Qualification**	Ph.D.
Module Tutor	Ahmed Isam Ali Al-Kadhim	**e-mail**	a.i.alkadhim@coeng.uobaghdad.edu.iq
Peer Reviewer Name	None	**e-mail**	None
Review Committee Approval		**Version Number**	1.0

Relation With Other Modules
العلاقة مع المواد الدراسية الأخرى

Prerequisite module	Digital C 1	**Semester**	Four
Co-requisites module	Computer, digital arch. 2	**Semester**	Six

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	• The course begins by introducing students to the fundamentals of Building Information Modelling (BIM) and its associated tools, focusing on their applications in design projects. • The course aims to equip students with the knowledge and skills necessary to effectively utilize BIM tools in their design work, with a particular emphasis on training students to operate Autodesk Revit software proficiently. • Mass Modeling: Additionally, the course will cover Mass Modeling techniques using 3Ds Max, enabling students to create and manipulate complex architectural forms and visualizations.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. **Understanding BIM Fundamentals** Students will demonstrate a clear understanding of the principles and concepts of Building Information Modelling (BIM) and its importance in modern architectural design. 2. **Proficient Use of BIM Tools** Students will gain the skills required to effectively apply BIM tools in design projects, with a focus on Autodesk Revit. 3. **Proficiency in Autodesk Revit** Students will acquire advanced knowledge of Autodesk Revit, including its key features and functionalities, enabling them to create detailed and precise architectural designs. 4. **Mass Modeling Competency** Students will learn how to utilize 3Ds Max for Mass Modeling, allowing them to design and manipulate complex architectural forms and create high-quality visualizations.
Indicative Contents المحتويات الإرشادية	
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	In class Drawing In-Class Questions, Discussions and sketches. Lectures using data show. Homework. Reports and Presentations. Tests and Exams.

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	47	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	2.4

Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	125

Module Evaluation
تقييم المادة الدراسية

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

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي النظري

	Material Covered
Week 1	Introduction to BIM and Revit
Week 2	Revit interface introduction Revit Essentials: Starting a project
Week 3	Revit Essentials: Walls
Week 4	Mass Modeling 1
Week 5	Mass Modeling 2
Week 6	Revit Essentials: Creating template
Week 7	Midterm Exam
Week 8	Revit Essentials: Floors, Columns
Week 9	Revit Essentials : Beams Revit Essentials : Waffle Slabs
Week 10	Revit Essentials: Stairs, vertical openings, Slabs boundary, Shafts
Week 11	Revit essentials: Rooms
Week 12	Revit essentials: group and mirror
Week 13	Revit Essentials: Massing and Site
Week 14	Revit Essentials : CAD Insert Sheets and revit to CAD Revit to pdf
Week 15	Final Project Work and Preparation
Week 16	**Final Exam**

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	- "Design Integration Using Autodesk Revit 2021" by Daniel John Stine	No
Recommended Texts	• "Revit 2021 for Architecture: No Experience Required" by Eric Wing • "Mastering Autodesk Revit 2021" by Lance Kirby, Marcus Kim, and Edwin Prakoso • "BIM and Integrated Design: Strategies for Architectural Practice" by Randy Deutsch	No
Websites	Autodesk Revit Learning Path - https://learn.autodesk.com/become-an-expert/revit Revit Forum - https://www.revitforum.org/ BIM Academy - https://www.bimacademy.global/ BIM+, an online magazine dedicated to BIM - https://bim.plus/	

APPENDIX:

GRADING SCHEME مخطط الدرجات				
Group	**Grade**	التقدير	**Marks (%)**	**Definition**
Success Group (50 - 100)	**A** - Excellent	امتياز	90 - 100	Outstanding Performance
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	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX** – Fail	مقبول بقرار	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required
Note:				

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MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Structure 1**			**Module Delivery**	
Module Type	**Supportive**			**x Theory** **x Lecture** **☐Lab** **x Tutorial** **☐Practical** **☐Seminar**	
Module Code	**ARCH3127**				
ECTS Credits	**4**				
SWL (hr/sem)	**100**				
Module Level	3		**Semester of Delivery**	5	
Administering Department	Architectural		**College**	Engineering	
Module Leader	Ahmed Khudher Abdulridha		**e-mail**	ahmed.khudher@coeng.uobaghdad.edu.iq	
Module Leader's Acad. Title	Teacher		**Module Leader's Qualification**	Ph.D.	
Module Tutor	Ahmed Khudher Abdulridha		**e-mail**	ahmed.khudher@coeng.uobaghdad.edu.iq	
Peer Reviewer Name	None		**e-mail**	none	
Scientific Committee Approval Date			**Version Number**	1.0	

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	Static, strength	**Semester**	4
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	The subject aims at familiarizing the student with the subject of forces and their analysis and distribution on the facilities, as well as introducing the reactions in the buildings. The subject includes a summary about trusses and their types, the distribution of force on them, and their structural behavior.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	The student will be able to understand the load type, and the influence of each type of load on the simple structure and body. In addition to the structural behavior of building materials that will be used in construction.
Indicative Contents المحتويات الإرشادية	Hours of of students work included many of assaments and exams100

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The subject will be presented to students through a specified series of lectures and tutorials assisted by notes. It will be supported by utilizing of computer assisted packages. The learning element will be evaluated by a set of assignments on computer element and tests to ensure outcomes are achieved.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	63	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	4.2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	37	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	2.46
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**100**		

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

					Outcome
Formative assessment	**Quizzes**	2	5% (5)	5, 10	LO# 1,2,3, 4
	Assignments	7	10% (10)	2,4, 6, 8, 10, 12, 14	LO# 4, 5 , 8 ,9,11,13
	Projects / Lab.				
	Report				
Summative assessment	**Midterm Exam**	2hr	40% (40)	8	1-9
	Final Exam	3hr	60% (60)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Introduction
Week 2	Moment of Inertia
Week 3	Moment of Inertia
Week 4	Axial Force, Shear Force, and Bending Moment Digrams
Week 5	Axial Force, Shear Force, and Bending Moment Diagrams
Week 6	Axial Force, Shear Force, and Bending Moment Diagrams
Week 7	Axial Force, Shear Force, and Bending Moment Diagrams
Week 8	Stresses
Week 9	Stresses
Week 10	Stresses
Week 11	Stresses
Week 12	Strain
Week 13	Strain
Week 14	Strain
Week 15	Strain
Week 16	Exam

Learning and Teaching Resources

مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	- STRUCTURALANALYSIS EIGHTH EDITION R. C. HIBBELER - MECHANICSOF MATERIALS EIGHTH EDITION R. C. HIBBELER	Yes
Recommended Texts		Yes
Websites		

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

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	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information
معلومات المادة الدراسية

Module Title	HISTORY OF ARCHITECTURE / WORLD ARCHITECTURE 2	**Module Delivery**	
Module Type	CORE	☒ **Theory** ☒ **Lecture** **Lab** **Tutorial** ☒ **Practical** ☒ **Seminar**	
Module Code	ARCH3105		
ECTS Credits	3		
SWL (hr/sem)	75		

Module Level	3	**Semester of Delivery**	5
Administering Department	Arch	**College**	Engineering
Module Leader	Asmaa Sadeq Abdulkareem	**e-mail**	asmaa.sadeq@coeng.uobaghdad.edu.iq
Module Leader's Acad. Title	Lecturer	**Module Leader's Qualification**	MSc.
Module Tutor	None	**e-mail**	None
Peer Reviewer Name	Dr. Ghada Al Slik	**e-mail**	ghada.alslik@coeng.uobaghdad.edu.iq
Review Committee Approval		**Version Number**	

Relation With Other Modules
العلاقة مع المواد الدراسية الأخرى

Prerequisite module	History of Architecture/Iraqi Architecture 1	**Semester**	
Co-requisites module		**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	1. The subject aims to expand the student's information and ability of analyzing various architectural styles around the world, especially in Europe, since ancient times till the rise and spread of Christianity. 2. Developing the students' knowledge of the natural (environmental) and human influences on architecture, including geography, climate, geology, as well as social and religious and political influences, and analyzing their effects on the architecture of regions and eras. 3. Supporting the designing abilities of the students through developing their abilities to recognize and understand architectural forms, solutions, and details, and practicing how to produce accurate compositions in proportions and details, especially how and when to be inspired by history and heritage. 4. The subject deals with forms of historical masterpieces and their aesthetic values, as well as intelligence in structural solutions. 5. Comparing between different styles, which creates identification and recognition of each style, and how styles are connected or separated.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. The student learns the meaning of the term (Architectural Style), and gains the ability to compare between styles in general and in details. 2. Exploring the most famous masterpieces of architecture all over the world through different eras. 3. Awareness of the concepts of architectural masterpieces and understanding the integration between intellect and architecture. 4. Enhancing the student's sense in dealing with architectural elements and compositions. 5. Learning the importance of materials and how they affect architectural design. 6. Concentrating on the main aspects of design in successful architectural examples, and that includes, how did styles deal with: ▪ Forms and shapes, their characteristics and how man perceives them. ▪ Interior spaces, and their relation with perception and function ▪ Structural systems and constructional solutions ▪ Ornamentation and artistic affects. ▪ Openings and ▪ Scale of buildings ▪ Urban planning and open spaces

	7. Understanding the accumulation in constructional solutions and forms. 8. Enhancing the awareness of the relation between time and architecture. 9. The previously mentioned learning outcomes are demonstrated through the following: a) The meaning of early Prehistoric architecture and the meaning of settlements. b) Main aspects of Mesopotamian architecture in comparison with regional and world architecture. c) Egyptian ancient monuments (pyramids and temples) and their main characteristics. d) Aegean main features in defense of cities and architectural solutions, especially in Crete Minoan civilization e) Greek architecture especially temples and intellectual- formal perceived treatments such as optical illusion, Orders, proportions and details. f) Roman architecture and their wide spread and variety in buildings, as well as distinguished structural solutions especially domes and vaults, and creating new building materials. g) The transition from pagan to Christian architecture and the rise of early Christian basilicas. 10. Strengthening the ability of drawing sketches and enhancing sense of design.
Indicative Contents المحتويات الإرشادية	**Indicative content includes the following.** 1. The connection between civilizations and their architecture. 2. The development of architecture through time. 3. The effect of place and environment on architecture 4. The role of Man in recruiting architecture to his thoughts.
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	1. Learning depends mainly on academic lectures that are introduced inside class room enhanced by a daily power point presentation, as well as showing modules and sketch panels. 2. Student participation in lectures by discussions and question-answer activity. Also they submit assignments and reports.

	3. Students submit sketch panels that represent architectural drawings of buildings and examples. This will enhance their understanding and recognition of the examples and their proportions and details. 4. Encouraging students to present seminars on building or subjects that they have visited or studied precisely.

Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	48	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	3.2
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/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	2	10% (10)	4, 9	LO #1-8, and 9 (a, b, f)
	Assignments	2	10% (10)	6, 10	LO # 1-8 and 9 (d, e, g)
	Projects / sketch panel	1	15% (15)	11	LO # 10
	Report/ (or seminar)	1	5% (5)	8	LO #1-9
Summative assessment	**Midterm Exam**	3 hr	10% (10)	12	LO # 1-8 and 9 (a-f)
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Rising of Civilizations, Mesopotamian Architecture Review & Prehistoric Architecture.
Week 2	Egyptian Architecture – Influences, Tombs & Cult Temples
Week 3	Egyptian Architecture – Mortuary Temples & Columns & Ornament & quiz
Week 4	Aegean Architecture- Influences & main features
Week 5	Aegean Architecture- Minoan Civilization
Week 6	Greek Architecture- Influences & Acropolis & assignment
Week 7	Greek Architecture-Parthenon and Erechtheion
Week 8	Greek Architecture- Optical correction, Golden Section and Orders
Week 9	Roman Architecture- Influences & construction methods
Week 10	Roman Architecture- Temples (Pantheon)& quiz
Week 11	Roman Architecture- variety of features & spread
Week 12	Roman Architecture- Amphitheatre (Collosoum)& First semester Exam
Week 13	Rise of Christianity and Early Christian Architecture
Week 14	Early Christian Architecture – Development of church & assignment
Week 15	**Preparatory Week**
Week 16	**Final Exam**

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	• Banister Fletcher. A History of Architecture on the Comparative Method. • Francis Ching. A Global History of Architecture	Yes Yes
Recommended Texts	• *The Usborne Encyclopedia of the Ancient World.* • Owen Hopkins. *Architectural Styles. A Visual Guide*.	No No
Websites	https://illustrarch.com/articles/13585-greek-and-roman-classical-architecture.html	

APPENDIX:

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

NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

ملاحظة: هذا النموذج تم وضعه وتقديمه من قبل مديرية ضمان الجودة في وزارة التعليم العالي والبحث العلمي

	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information
معلومات المادة الدراسية

Module Title	PHYSICS, LIGHTING	**Module Delivery**	
Module Type	SUPLEMENT	☒ **Theory** ☒ **Lecture** **Lab** **Tutorial** ☒ **Practical** ☒ **Seminar**	
Module Code	ARCH3123		
ECTS Credits	4		
SWL (hr/sem)	100		
Module Level	3	**Semester of Delivery**	5
Administering Department	Arch	**College**	Engineering
Module Leader	Asst. Prof.: Dr. Amjad Mahmood albadry Lect. :Dr. Hala Shamsi Mohammed Aldiwani	**e-mail**	amjadalbadry@coeng.uobaghdad.edu.iq hala.shamsi@coeng.uobaghdad.edu.iq
Module Leader's Acad. Title		**Module Leader's Qualification**	
Module Tutor	None	**e-mail**	None
Peer Reviewer Name	Prof. Dr. Hoda Al-Alwan	**e-mail**	hoda-alwan@coeng.uobaghdad.edu.iq
Review Committee Approval	01/09/2024	**Version Number**	1.0

Relation With Other Modules
العلاقة مع المواد الدراسية الأخرى

Prerequisite module	None	**Semester**	\
Co-requisites module	None	**Semester**	\

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	1- Identify the student with the main principles of the electrical systems like the lighting system. 2- The student identifies the requirements of Lighting how to measure the areas required to be contained and the basics of their projection in the building' space. 3- The methods of calculating the electrical power of Lighting in relation to the coverage of building' space requirements lighting.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	- The student learns what is the Lighting? And its importance on architecture during the history. - The student will learn about of the basic Lighting and its relation about the Perfect Environment in Interior Design. - The student will learn about types of Lighting in interior design - Enhancing the student's intellectual framework for the basic and types of Artificial lighting techniques in Landscape and Interior Design. - The student learns how is to deal of artificial lighting to achieve The concept of energy conservation. - The student will learn the types of techniques that dealing of lighting to achieve the concept of energy conservation. - The student will know the types of lighting lamps and the the criteria of its choices. - The student will learn how to calculate the electrical power to light a space in a building. - The student will learn how to calculate the illumination of a space in a building. - The student will learn how to calculate the cross-section of an electrical wire.
Indicative Contents المحتويات الإرشادية	**Indicative content includes the following.** •The concepts of lighting in architecture according to the intellectual proposals of scientists and their intellectual contributions throughout history •Physical information about light radiation. •The Constituents of lighting systems that of its impact Perfect Environment like lighting types, quality of lighting, perfect illumination, Gloomy, etc. •Artificial lighting system techniques and their use in landscape and interior design in terms of (lighting shape, location, lighting intensity, etc.) • Explanation of lamps in terms of types, characteristics, reasons for choosing them, etc. • Calculations dealing with lighting system like: the electrical power, illumination, etc.

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	Type something like: The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. It will be achieved through academic lectures and intellectual discussions with students, submitting reports and assignments, field visits.

Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	48	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	3.2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	52	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	3.4
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	100		

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Quizzes**	2	20% (20)	4, 9	LO #1-,4,9
	Project	1	5% (5)	6	LO #4
	Assignments	1	5% (5)	11	LO # 9,10
	Report	1	10% (10)	12	LO # 1-5 and 6 ,8
Summative assessment	**Midterm Exam**	3 hr	10% (10)	7	LO # 1-6
	Final Exam	3hr	50% (50)		All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	**Material Covered** Introduction – General information about lighting.
Week2	**Explain Lighting and the Criteria of Perfect Environment in Interior Design (1).**
Week 3	**Explain Lighting and the Criteria of Perfect Environment in Interior Design (2).**

	The student will have Informed about the first quiz.
Week 4	**Artificial lighting techniques in Landscape and Interior Design** The student will complete a first quiz. The student will have Informed about the project.
Week 5	**Artificial lighting and energy conservation techniques (1).**
Week 6	**Artificial lighting and energy conservation techniques (2).** The student will complete a project. The student will have informed about a report
Week 7	**Mid-term Exam**
Week 8	**Types of lighting lamps.** The student will have informed about the Second quiz.
Week 9	**Electrical power of lighting systems. (1)** The student will complete a Second quiz.
Week 10	**Electrical power of lighting systems. (2)** The student will have informed about an assignment.
Week 11	**Electrical power of lighting systems (3)**. The student will complete an assessment
Week 12	The student will complete a report **Seminar and discussion.**
Week 13	**Seminar and discussion.**
Week 14	**Seminar and discussion.**
Week 15	**Preparatory Week**
Week 16	**Final Exam**

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	الاضاءة النهارية والصناعية في العمارة – رزق نمر شعبان حماد Lighting_Modern_Buildings -Derek Phillips 2000	Yes Yes
Recommended Texts	Architectural Lighting Design, 3rd Edition | Wiley 2008	No
Websites	Different architectural websites. - illuminated-integration- - led-professional - architectmagazine	

APPENDIX:

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

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Ministry of Higher Education and Scientific Research - Iraq
University of Baghdad
College of Engineering
Department of Architectural Engineering

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information
معلومات المادة الدراسية

Module Title	ARCHITECTURAL DESIGN 6	**Module Delivery**	
Module Type	CORE	☒ **Theory** ☒ **Lecture** **Lab** **Tutorial** ☒ **Practical** ☒ **Seminar**	
Module Code	ARCH3201		
ECTS Credits	10		
SWL (hr/sem)	250		
Module Level	UGIII	**Semester of Delivery**	6
Administering Department	Arch	**College**	College of Engineering COG
Module Leader	Dr. Osamah A. AL-tameemi Dr. Fawzia Irhayyim Hussein Dr. Sally Fakhri Khalaf	**e-mail**	osamah.altameemi@oeng.uobaghdad.edu.iq fawziaasadi@coeng.uobaghdad.edu.iq s.fakhri@coeng.uobaghdad.edu.iq
Module Leader's Acad. Title	Asst. Prof.	**Module Leader's Qualification**	Ph.D.
Module Tutor		**e-mail**	
Peer Reviewer Name	Dr. Ghada Musa	**e-mail**	Ghada.alslik@coeng.uobaghdad.edu.iq
Review Committee Approval	1-9-2024	**Version Number**	1.0

Relation With Other Modules
العلاقة مع المواد الدراسية الأخرى

Prerequisite module	Architectural Design 5	**Semester**	5
Co-requisites module		**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	The aims of the course is to build a database in the field of architecture, where the student identifies complex projects in terms of their various service areas. Structural decisions and implementation technology are at the forefront of the design presentation, through the selection of short- and medium and large span projects that require construction courses and can be implemented using reinforced concrete or steel structure. The student identifies the most important structural details they need to know in this regard, in addition to a practical application accompanying the Construction (III) course throughout the academic year. The principle of this course is to introduce and enable the student to design a complete project, from a sketch to final drawings. This aim is done through: 1- Support the practical design projects for the student designs with theoretical background. 2- Be able to do site surveys and studies. 3- Be able to do studies related to a specific project program. 4- Be able to design a specific program. 5- Design with understanding the surroundings impact. 6- Be able to understand different design approaches and methods. 7- Understand the impact of social and cultural environment. 8- Understand the impact of weather and natural environment. 9- Understand heritage and traditional architecture and their impact on design. 10- Be able to understand basic structure system and design with it. 11- Be able to understand building services 12- Be able to understand interior and exterior space relationship 13- Be able to design interior spaces layouts and details 14- Be able to understand and design project landscape 15- Be able to design and present the project in an expressive way. 16- Be able to communicate and discuss his or her ideas.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	Design program presents a complex project containing small and medium and large size spaces like study halls and multi-purpose halls (academic or commercial complexes or medium size industrial projects or entertainment complexes built by reinforced concrete structures or iron structures with the adoption of some constructional details in the subject of building construction III that accompany the current project. I
Indicative Contents المحتويات الإرشادية	Indicative content includes the following: Part A – lecture –Theory part Studying the importance of project's site and its dimensions, and the

	impact of surroundings as well as social and natural environment. Studying properties of exterior spaces and courts, also discussing the properties of interior spaces. Exploring the functional requirements . Getting to know the constructional methods including structure , and contemporary specializations. Studying landscape standards. Exploring aesthetic values and materials of elevations. Part B – practical part The student designs a horizontal educational project, to learn through it the principles of design for functional requirements of a typical, recurring nature, and to review some of the construction details directed for this purpose, in addition to the possibility of applying what the student learned in the subject of health services, air conditioning and lighting services given to him in the first and second semesters. The study includes a set of quick tests to identify the student's ability to make the right design decisions within a short period of time.
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The learning strategy aims to develop students' skills comprehensively and gradually, in line with the complexity of the subjects being taught. Since they learn at this stage to design concrete buildings with long, medium, and short spans, in addition to large horizontal projects, the educational strategies include the following: • Project-Based Learning • Collaborative Learning • Hands-On Workshops • Presentations and Constructive Criticism • Integration of Theory and Practice • Continuous Assessment

Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	155	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	10.3
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	95	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	6.3
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	250		

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Report	3	5% (5)	1, 2	from 1 to 9
	Homework	11	20% (20)	3, 4, 5, 6	from 6 to9
	Day sketch	2	10% (10)	5, 8	from 5 to 15
	Class work	2	5% (5)	4, 7	from 5 to 15
Summative assessment	Midterm	4	10% (10)	7, 8	from 5 to 15
	educational project (Final)	1	30% (30)	14	All especially 15
	educational project (pre-final)	7	10% (10)	12, 13	10, 11, 16
	educational project [pre-lim. (01+02]	1	5% (5)	10,11	10,11, 16, 15
	Final Exam	1	5% (5)	15	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي النظري

	Material Covered
Week 1	Educational Project: Study (group work: function, environment, expression, structure, similar examples)
Week 2	Educational Project: Study (upgrading study reports through discussion and analysis / submission)
Week 3	Educational Project: Concept (first concept as sketches, diagrams, and 3D model)
Week 4	Educational Project: Concept (upgrading concept through plans and model)
Week 5	Educational Project: Development of concept/ upgrading of plan and section/ furnishing
Week 6	Educational Project: Upgrading plans and sections proposals.
Week 7	Educational Project: Upgrading elevations and prespectives proposals
Week 8	Educational Project: Prelim 01.
Week 9	Educational Project: upgrading project according to staff notices after Prelim 01.
Week 10	Educational Project: Prelim 02.
Week 11	Educational Project: upgrading project according to staff notices after Prelim 02.
Week 12	Educational Project: Pre-final presentation (Sheets / model/ other techniques).
Week 13	Educational Project: upgrading project according to last staff notices.
Week 14	Educational Project: Final presentation.
Week 15	Semester Exam.

Week 16	--------

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	-------	
Recommended Texts	○ A Pattern Language. by Christopher Alexander ○ Design Strategies in Architecture: An Approach to the Analysis of Form/ G. Baker ○ Complexity and Contradiction in Architecture by Robert Venturi ○ "Architectural Design: A Process-Oriented Approach" by Damon G. Douglas ○ "The Architecture of the City" by Aldo Rossi ○ "The Image of the City" by Kevin Lynch	Yes Yes Yes Yes Yes Yes
Websites	1. Academic Libraries and Journals: • Google Scholar: A search engine for academic research that includes articles and books on architectural design and building materials. • JSTOR: Contains academic articles and books covering various aspects of architecture and engineering. • ScienceDirect: A scientific library that contains research articles on building materials and building design. 2. Drawing and Design Resources: • Houzz: Provides a large collection of architectural images and projects, especially in interior and exterior design. 3. Architectural Forums and Communities: • Archinect: An architectural community that provides articles, forums, and announcements of competitions and projects.	

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	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information
معلومات المادة الدراسية

Module Title	BUILDING CONSTRUCTION 4	**Module Delivery**	
Module Type	CORE	☒ **Theory** ☒ **Lecture** **Lab** **Tutorial** ☒ **Practical** **Seminar**	
Module Code	ARCH3206		
ECTS Credits	5		
SWL (hr/sem)	125		
Module Level	3	**Semester of Delivery**	6
Administering Department	Arch	**College**	Engineering
Module Leader	Dr. Anas Hameed Majeed	**e-mail**	anas.h.majeed@coeng.uobaghdad.edu.iq
Module Leader's Acad. Title	Lecturer	**Module Leader's Qualification**	Ph. D.
Module Tutor	None	**e-mail**	None
Peer Reviewer Name	Dr. Ahmed A.Kubba	**e-mail**	~~Dr. Ahmed A.Kubba @yahoo.com~~
Review Committee Approval	[illegible]	**Version Number**	1.0

Relation With Other Modules
العلاقة مع المواد الدراسية الأخرى

Prerequisite module	Building Construction 3	**Semester**	1
Co-requisites module	None	**Semester**	\

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	This course aims to identify the importance of the skeletal system of mid-span steel structure and its close relationship with the process of architectural design where choosing the suitable structural skeleton for each building directly interacts with the building's function and exterior final form. The course also deals with the importance roles of the architectural details in the building design and their importance in the process of implementation to ensure the correctness of implementation. This process increases the designer's accurate presentation of the basic features of the building as well. In addition, The course touches on the types of plans produced by the architect like the designing, working, manufactured and existing plans and whatever each of these plans requires to be appropriate for the purpose for which they were found. The scientific part of the course involves teaching the student the method of producing and organizing the working detailed plans in general and how to present them and concentrating on multistory structures built by mid-span steel structures, in addition to identifying the student with the system of organizing and encoding plans (CL/SFB) being one of the international system in the engineering bureaus and consultative parties. The course includes theoretical lectures and applied projects and three term examinations and daily practical quizzes and day-sketches inside studios. The course of the theoretical lectures, which are shown in the table, are included within every week during the second semester and they are applied through single project. The project trains the students to prepare detailed plans of mid-span hall built by steel with all their details. Moreover, it is possible to specify the final three weeks of designing project to make detailed plans for a selected part of the project which will provide a chance for the students to identify the various structural solutions and complete details.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. Achieve and improve the students' imagination for supporting their conceptual framework of mid-span steel structure. 2. Learn how develop the students' concepts into active design project of mid-span steel structure that can be implemented in the reality. 3. Develop their ability to put design that meets reasonable costs and efforts. 4. The student will be able design and draw by different tools and materials. 5. Build the students' capacity to work with a team to integrate their efforts with the others. 6. Students will be able to face any constructive problems in design, profession or study, in a creative intelligent way, and suggest types of innovations to previous outputs. 7. With communication skills, the students will be able to communicate with people related to building construction through architectural field via drawing skills and digital skills.

	8. The student will learn the nature of buildings and the structural behavior. 9. The student will learn the principles of steel construction. 10. The student will learn the principles of concrete foundations with steel structure. 11. The student will learn the principles of steel floors structures. 12. The student will learn the principles of steel finishing in the steel structure. 13. The student will learn the principles of internal divisions. 14. The student will learn the principles of steel stairs and ladders. 15. The student will learn the principles of roof structures, shell roofs and grid structures.
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. **Part A –Theory part (lecture)** - A project introducing function and basic structural knowledge. - A whole building construction, with inside and outside treatment and specific functions of details. **Part B – Practical part (homework and classwork)** - The applied exercise of a project introducing function and basic structural knowledge. - The applied exercise of a whole building construction, with inside and outside treatment and specific functions of details.
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their practical and constructive thinking skills. It will be achieved through academic lectures and intellectual discussions with students, exercises, field visits, and making working drawing sheets.

Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	150	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	5
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل		**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	150		

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Concept exercises**	2	4% (4)	2,8	LO # 1-6
	Development stages	7	14%(14)	2,3,8,9,10,11 ,12	LO # 1-6, 8 and 9
	Day-sketch	2	16% (16)	6, 11	LO # 1,3,4,5,and 6 for first day sketch And all for the second day-sketch
	Studying Report	2	6% (6)	1,7	LO # 9
Summative assessment	**Prelim - presentation**	2	15% (15)	3,13	All
	Pre-final presentation	2	20% (20)	4,14	All
	Final presentation	2	25% (25)	5,15	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي

	Material Covered
Week 1	Types of the basic constructional structures of steel and its basic constructional divisions
Week 2	Methods of bonding the components to the basic divisions of steel structures and the methods of bonding the basic divisions with each other.
Week 3	Methods of strengthening the steel structures against the bracing and horizontal forces
Week 4	Steel structures / the steel material: its extraction, components, types, characteristics, and negative sides
Week 5	Methods of the exterior enveloping steel structures of the ceilings and walls and their methods of bonding and environmental, thermal and acoustical insulation with the openings details.
Week 6	Steel stairs: their types, and methods of construction, the concrete and its details.
Week 7	Roof structures: The functional requirements of roofs, their methods of classification, their

	building material, and the characteristics of every type and its building materials
Week 8	Trusses and girders: Rigid (portal) Frames : their types, and methods of construction
Week 9	Shell roofs: their types, their constructional materials and methods of construction Folded slab (plates) roofs Grid roof structures – continued
Week 10	Tension roof structures: Air stabled or pneumatic roof structures
Week 11	-Developing the exercise. And explain the site plan -Developing the exercise, and site plan
Week 12	-Developing the exercise, and explain the plan. -Developing the exercise and the plan.
Week 13	preliminary presentation / individual criticism and developing the concept
Week 14	Pre-final presentation
Week 15	Final presentation

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	-Ernst Neufert, Architects' Data, 2012 -Francis D. K. Ching, Steven P. Juroszek, Architecture: Form, Space, and Order, 2004	Yes
Recommended Texts	Recommended books and references (scientific journals, reports…): -Many local and international projects, and many examples -Annual -Architectural record	
Websites	Different architectural websites. -Arch daily : https://www.archdaily.com/ -Arch h2o : https://www.arch2o.com/ -Arch space : https://thearchspace.com/ -Dezeen : https://www.dezeen.com/ -Architizer : https://architizer.com/ - أركين : https://www.arcign.com/projects/	

APPENDIX:

GRADING SCHEME
مخطط الدرجات

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

Note:

NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.



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	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information
معلومات المادة الدراسية

Module Title	HISTORY OF ARCHITECTURE / WORLD ARCHITECTURE 2	**Module Delivery**	
Module Type	CORE	☒ **Theory** ☒ **Lecture** **Lab** **Tutorial** ☒ **Practical** ☒ **Seminar**	
Module Code	ARCH3205		
ECTS Credits	4		
SWL (hr/sem)	100		

Module Level	UGIII	**Semester of Delivery**	6
Administering Department	Arch	**College**	CEC
Module Leader	Asmaa Sadeq Abdulkareem	**e-mail**	asmaa.sadeq@coeng.uobaghdad.edu.iq
Module Leader's Acad. Title	Lecturer	**Module Leader's Qualification**	MSc.
Module Tutor	None	**e-mail**	None
Peer Reviewer Name	Dr. Saba Sami	**e-mail**	sabasami1000@yahoo.com
Review Committee Approval	[illegible]	**Version Number**	1.0

Relation With Other Modules
العلاقة مع المواد الدراسية الأخرى

Prerequisite module	History of Architecture/ World Architecture 1	**Semester**	5
Co-requisites module	History of Architecture/ Modern Architecture	**Semester**	7

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	1. The subject aims to continue expanding the student's information and ability of analyzing various architectural styles around the world, especially in Europe since the beginning of the first millennium, and the styles related to Christianity. 2. Learning how architecture has developed gradually in Europe, and its firm connection with religion, as well as its connection with ancient Classical architecture (Greek & Roman) 3. Developing the students' knowledge of the natural (environmental) and human influences on architecture, including geography, climate, geology, as well as social and religious and political influences, and analyzing their effects on the architecture of regions and eras. 4. Supporting the designing abilities of the students through developing their abilities to recognize and understand architectural forms, solutions, and details, and practicing how to produce accurate compositions in proportions and details, especially how and when to be inspired by history and heritage. 5. The subject deals with forms of historical masterpieces and their aesthetic values, as well as intelligence in structural solutions. 6. Comparing between different styles, which creates identification and recognition of each style, and how styles are connected or separated. 7. Understanding the main architectural characteristics of historical European Architecture, and distinguishing the similarities and differences between the architecture in European countries.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. The students continue learning the meaning of Architectural Style, and recognizing main differences between ancient styles and later styles. 2. Identifying the strong relationship between Classical architecture (Greek & Roman|) with Christianity and Medieval architecture. 3. Exploring the most famous masterpieces of Christian architecture all over Europe through different styles. 4. Awareness of the concepts of architectural masterpieces and understanding the integration between intellect and architecture. 5. Enhancing the student's sense in dealing with architectural elements and compositions. 6. Learning the importance of materials and how they affect architectural design. 7. Learning various constructional treatments for lintels and different shapes of arches.

	8. Understanding the advanced techniques used in roofing, in the second millennium in Europe, and considering their constructional, environmental and aesthetic advantages. 9. Successful constructional inventions and constructional revivals. 10. Concentrating on the main aspects of design in successful architectural examples, and that includes, how did styles deal with: ▪ Forms and shapes, their characteristics and how man perceives them. ▪ Interior spaces, and their relation with perception and function ▪ Structural systems and constructional solutions ▪ Ornamentation and artistic affects. ▪ Openings and ▪ Scale of buildings ▪ Urban planning and open spaces. ▪ The relation between architecture and art. 11. Understanding the accumulation in constructional solutions and forms. 12. Enhancing the awareness of the relation between time and architecture. 13. The previously mentioned learning outcomes are demonstrated through the following: a) Byzantine architecture through regions that were parts of the Byzantine Empire or influenced by its power. . b) Romanesque architecture as a continental style through Europe with common characteristics. c) Gothic Architecture and its various appearances in European countries, especially in north and west Europe. d) Renaissance architecture and Baroque architecture, with enhancement on the social and intellectual influences, and their spread to Europe and the new world (America), e) Rococo art and rising of individual approaches of architects, artists and theorists. 14. The student understands how architectural styles are still alive, either through their continuous effect on recent architecture and designing process or through the Revival approaches of these styles (Neo Classicism, Gothic Revival, and eclecticism). 15. Learning the effect of the wide production and use of new material (glass & steel) on architecture in the era of Industrial revolution, and how it changed many aspects of architecture. 16. Strengthening the ability of drawing sketches and enhancing sense of design.

Indicative Contents المحتويات الإرشادية	**Indicative content includes the following.** 1. The connection between civilizations and their architecture. 2. The development of architecture through time. 3. The effect of place, material, and environment on architecture 4. The role of Man in recruiting architecture to his thoughts and abilities.
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	1. Learning depends mainly on academic lectures that are introduced inside class room enhanced by a daily power point presentation, as well as showing modules and sketch panels. 2. Student participation in lectures by discussions and question-answer activity. Also they submit assignments and reports. 3. Students submit sketch panels that represent architectural drawings of buildings and examples. This will enhance their understanding and recognition of the examples and their proportions and details. 4. Encouraging students to present seminars on building or subjects that they have visited or studied precisely.

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	
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	100		

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	4, 9	LO #1-12, and 13 (a, d, e)
	Assignments	2	10% (10)	6, 10	LO # 13 (a) , 14, 15
	Projects / sketch panel	1	15% (15)	11	LO # 16
	Report/ (or seminar)	1	5% (5)	8	LO #13 (b)
Summative assessment	Midterm Exam	3 hr	10% (10)	12	LO # 1-12 and 9 (a-c)
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي النظري

	Material Covered
Week 1	Byzantine Architecture – Influences & main features
Week 2	Byzantine Architecture – Aya Sophia & constructional methods (pendentive)
Week 3	Byzantine Architecture – variety of domes/ornamentation & columns/ Spread in Russia & quiz
Week 4	Romanesque Architecture – Influences & main features & Groin vault
Week 5	Romanesque Architecture – Pisa Ecclesiastes complex – Report submission
Week 6	Romanesque Architecture- spread & assignment.
Week 7	Gothic Architecture – Influences & main features
Week 8	Gothic Architecture- Constructional Solutions
Week 9	Gothic Architecture –Notre-dame Cathedral- English Gothic & Semester Exam
Week 10	Renaissance Architecture –Intellectual influences & main characteristics
Week 11	Renaissance Architecture – Villa Capra & Piazzas-
Week 12	Late Renaissance Architecture – Baroque & Rococo & quiz
Week 13	Architecture of Revivals (Neo Classicism, Gothic Revival, and eclecticism).
Week 14	Architecture of Industrial Revolution & assignment
Week 15	**Preparatory Week**
Week 16	**Final Exam**

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	• Banister Fletcher. A History of Architecture on the Comparative Method. • Francis Ching. A Global History of Architecture	Yes Yes
Recommended Texts	• Owen Hopkins. *Architectural Styles. A Visual Guide*. • Louis Rocah. *The Architecture Timecharts*. University of Illinois, Chicago	No No
Websites	https://artincontext.org/medieval-architecture/	

APPENDIX:

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

NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

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	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Electrical Engineering	

MODULEDESCRIPTORFORM نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Sanitary Design**			**Module Delivery**	
Module Type	**S**			☑ **Theory** ☑ **Lecture** ☐ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	ARCH3224				
ECTS Credits	2				
SWL (hr/sem)	50				
Module Level	UGIII		**Semester of Delivery**	6	
Administering Department	ARCH		**College**	University of Baghdad	
Module Leader	**Bahaa Al-Atta**		**e-mail**	balatta@coeng.uobaghdad.edu.iq	
Module Leader's Acad. Title	LECTURER		**Module Leader's Qualification**	P.hD in Structural Engineering	
Module Tutor	**Bahaa Al-Atta**		**e-mail**	balatta@coeng.uobaghdad.edu.iq	
Peer Reviewer Name			**e-mail**		
Review Committee Approval	1/9/2024		**Version Number**	1.0	

Relation with other modules العلاقة مع المواد الدراسية الاخرى			
Prerequisite module		**Semester**	-
Co-requisites module		**Semester**	-
Module Aims, Learning Outcomes and Indicative Contents **أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية**			
Module Aims **أهداف المادة الدراسية**	1. Recognize and describe common sanitary fixtures used in residential and commercial buildings, including their functions and installation requirements. 2. Interpret and apply layout principles for arranging sanitary fixtures within toilets, considering space, user comfort, and plumbing efficiency. 3. Understand and use fundamental flow formulas relevant to water movement in pipes, including basic principles of hydraulic design. 4. Describe the components and operation of water supply systems in buildings, including source connection, distribution, and pressure management. 5. Understand the role of water storage tanks in buildings and apply basic principles for selecting and sizing tanks. 6. Perform water pipe sizing calculations using appropriate methods and standards to ensure adequate flow and pressure. 7. Identify key components of foul water drainage systems and understand their design, including venting, pipe slopes, and connection details. 8. Explain the purpose, operation, and basic design considerations of on-site wastewater systems such as septic tanks and soak-away pits.		
Module Learning Outcomes **مخرجات التعلم للمادة الدراسية**	1- Graduates will be able to identify and describe common sanitary fixtures used in buildings, including their functions and installation requirements. 2- Graduates will be able to analyze and design the layout of sanitary fixtures in toilets, considering spatial, ergonomic, and plumbing factors. 3- Graduates will be able to apply fundamental flow formulas to determine water flow through pipes and evaluate pressure and velocity conditions. 4- Graduates will be able to explain the operation and design of water supply systems in buildings, including distribution methods and pressure control. 5- Graduates will be able to understand the types, roles, and basic sizing principles of water storage tanks used in building systems. 6- Graduates will be able to calculate pipe sizes for water supply networks based on fixture units, pressure loss, and velocity constraints. 7- Graduates will be able to describe the components and working principles of foul water drainage systems in buildings, including layout interpretation. 8- Graduates will be able to explain the function and design considerations of septic tanks and soak-away pits used for on-site wastewater management.		

Indicative Contents **المحتويات الإرشادية**	1. Introduction to **sanitary fixtures**, including types, materials, and functional roles in buildings. 2. Principles for the **layout of sanitary fixtures** in toilets and wet areas based on comfort, accessibility, and plumbing requirements. 3. Overview of **flow formulas** used in pipe hydraulics (e.g., Hazen-Williams, Darcy-Weisbach), covering the relation between flow rate, pressure, and pipe diameter. 4. Understanding the **structure of water supply systems** in buildings including source connection, pumping, gravity systems, and distribution networks. 5. Introduction to **water tanks**, their importance in ensuring supply continuity, and the basic parameters for sizing and placement. 6. Theoretical background on **pipe sizing methods**, pressure loss due to friction, and fixture unit calculations. 7. Design principles and elements of **foul water drainage systems**, including trap systems, ventilation, and pipe gradients. 8. Fundamentals of **on-site wastewater treatment systems**, focusing on **septic tanks and soak-away pits**, with design considerations and environmental impact. Tutorials will be focusing on: a) Drafting **fixture layout plans** for toilets and wet areas using standard spacing and clearance rules. b) Performing **basic pipe sizing calculations** using given data on flow rates and fixture units. c) Creating **simple schematic diagrams** of water supply and drainage systems within a building. d) Reviewing a case study of **a building's sanitary system**, identifying components such as tanks, pipes, and outlets. e) Sketching or modeling a **basic septic system layout**, including tank dimensions, inlet/outlet locations, and soak-away pit positioning.

Learning and Teaching Strategies **استراتيجيات التعلم والتعليم**	
Strategies	The course will encourage student participation through practical tasks such as layout drawing, pipe sizing, and drainage design. Early in the semester, students will conduct short observations of existing sanitary systems in buildings to relate theory to practice. Teaching will be delivered through interactive lectures, tutorials, and guided exercises focused on water supply, drainage, and septic systems, aiming to build both technical understanding and applied design skills.

Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	64	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	36	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	2
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	100		

Module Evaluation تقييم المادة الدراسية

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

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي النظري

	Material Covered
WEEK 1	**Introduction to Common Sanitary Fixtures**
WEEK 2	**Layout of Sanitary Fixtures in Toilets.**
WEEK 3	**Formula for Flow Through Pipes (Part 1)**
WEEK 4	**Formula for Flow Through Pipes (Part 2)**
WEEK 5	**Water Supply in Buildings (Part 1)**
WEEK 6	**Water Supply in Buildings (Part 2)**
WEEK 7	**Introduction to Water Tanks in Buildings (Part 1).**

WEEK 8	**Introduction to Water Tanks in Buildings (Part 2).**
WEEK 9	**Water Pipe Sizing in Buildings (Part 1)**
WEEK 10	**Water Pipe Sizing in Buildings (Part 2)**
WEEK 11	**Foul Water Drainage in Buildings (part 1)**
WEEK 12	**Foul Water Drainage in Buildings (part 2)**
WEEK 13	**Seminars and Presentations**
WEEK 14	**Septic Tanks and Soak Away Pits**
WEEK 15	**Preparatory Week**
WEEK 16	**Final Exam**

Learning and Teaching Resources
مصادر التعلم والتدريس

Required Texts	Design and Practical Handbook on Plumbing (C.R. Mohan and Vivek Anand) 2003.
Recommended Texts	
Websites	

GRADING SCHEME
مخطط الدرجات

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	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information
معلومات المادة الدراسية

Module Title	COMPUTER DIGITAL ARCHITECTURE2	**Module Delivery**	
Module Type	BASIC		
Module Code	ARCH3207	**Lab** **Practical**	
ECTS Credits	5		
SWL (hr/sem)	125		

Module Level	UGIII	**Semester of Delivery**	6
Administering Department	Arch	**College**	Engineering
Module Leader	Hisham Alaa Husain	**e-mail**	hisham.husain@coeng.uobaghdad.edu.iq
Module Leader's Acad. Title	Lecturer	**Module Leader's Qualification**	Ph.D.
Module Tutor	Ahmed Isam Ali Al-Kadhim	**e-mail**	a.i.alkadhim@coeng.uobaghdad.edu.iq
Peer Reviewer Name	None	**e-mail**	None
Review Committee Approval		**Version Number**	1.0

Relation With Other Modules
العلاقة مع المواد الدراسية الأخرى

Prerequisite module	Computer, digital arch. 1	**Semester**	Five
Co-requisites module		**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	• **Develop Advanced Mass Modeling Techniques:** Gain expertise in leveraging Revit's mass modeling tools to create complex and parametrically driven architectural forms. • **Enhance Parametric Design Skills:** Utilize Revit's parametric capabilities to design adaptive components and dynamic models for a wide range of architectural concepts. • **Integrate Mass Modeling with BIM Workflows:** Master the process of integrating mass models into BIM workflows, including energy analysis, structural systems, and construction planning. • **Achieve Precision in Conceptual Design:** Refine conceptual massing techniques to produce high-quality, data-rich models suitable for early-stage design decision-making and client presentations.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. **Develop the ability to design and model intricate**, visually compelling architectural forms using Revit's mass modeling tools, pushing the boundaries of traditional design. 2. **Achieve expertise in parametric design** by creating adaptive components and dynamic models that respond seamlessly to changing design parameters and project requirements. 3. **Ensure mass models are seamlessly integrated into BIM processes**, enabling accurate data flow for energy analysis, structural planning, and collaboration across multidisciplinary teams. 4. **Deliver precise and data-rich conceptual models** that are scalable, suitable for early-stage client presentations, and instrumental in supporting informed design decisions.
Indicative Contents المحتويات الإرشادية	
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	In class Drawing In-Class Questions, Discussions and sketches. Lectures using data show. Homework. Reports and Presentations. Tests and Exams.

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)	47	**Unstructured SWL (h/w)**	2.4

الحمل الدراسي غير المنتظم للطالب خلال الفصل		الحمل الدراسي غير المنتظم للطالب أسبوعيا	
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	125		

Module Evaluation
تقييم المادة الدراسية

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

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي النظري

	Material Covered
Week 1	Conceptual Massing: introduction
Week 2	Conceptual Massing: Creating Forms
Week 3	Conceptual Massing : Modifying Forms
Week 4	Conceptual Massing: axis and form
Week 5	Conceptual Massing: Reference points and path
Week 6	Conceptual Massing: Organic Surfaces
Week 7	Midterm Exam
Week 8	Conceptual Massing: Spaceframe Panels
Week 9	Conceptual Massing: parameters
Week 10	Conceptual Massing: columns, doors, and windows
Week 11	Conceptual Massing: Export to project
Week 12	Test
Week 13	Revit Advance Application: Quantities and material take off
Week 14	Revit Advance Application: cost, and time phasing
Week 15	Final Project Work and Preparation
Week 16	**Final Exam**

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	- "Design Integration Using Autodesk Revit 2021" by Daniel John Stine	No
Recommended Texts	• "Revit 2021 for Architecture: No Experience Required" by Eric Wing • "Mastering Autodesk Revit 2021" by Lance Kirby, Marcus Kim, and Edwin Prakoso • "BIM and Integrated Design: Strategies for Architectural Practice" by Randy Deutsch	No
Websites	Autodesk Revit Learning Path - https://learn.autodesk.com/become-an-expert/revit Revit Forum - https://www.revitforum.org/ BIM Academy - https://www.bimacademy.global/ BIM+, an online magazine dedicated to BIM - https://bim.plus/	

APPENDIX:

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

NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Structure 2**			**Module Delivery**	
Module Type	**Supportive**			**x Theory** **x Lecture** **☐Lab** **x Tutorial** **x Practical** **☐Seminar**	
Module Code	**ARCH3227**				
ECTS Credits	**4**				
SWL (hr/sem)	**100**				
Module Level	3		**Semester of Delivery**	Six	
Administering Department	Architectural		**College**	Engineering	
Module Leader	Ahmed Khudher Abdulridha		**e-mail**	ahmed.khudher@coeng.uobaghdad.edu.iq	
Module Leader's Acad. Title	Teacher		**Module Leader's Qualification**	Ph.D.	
Module Tutor	Ahmed Khudher Abdulridha		**e-mail**	ahmed.khudher@coeng.uobaghdad.edu.iq	
Peer Reviewer Name	None		**e-mail**	none	
Scientific Committee Approval Date			**Version Number**	1.0	

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	structure 1	**Semester**	5
Co-requisites module	None	**Semester**	

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Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	The subject of structures is specified to cover the structural principles of the buildings designed by using reinforced concrete and through presenting the general concept and bases of forces distribution, method of finding the static of the structure, stresses calculations, and the strain of the construction members. In addition to analyze and design of concrete and steel members in building.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	The student will be able to analyze and design the concrete and steel members in building. Moreover, the student will have a decent visualization of the structural performance of the concrete and steel members in building with structural challenging.
Indicative Contents المحتويات الإرشادية	Hours of of students work included many of assaments and exams100

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The subject will be presented to students through a specified series of lectures and tutorials assisted by notes. It will be supported by utilizing of computer assisted packages. The learning element will be evaluated by a set of assignments on computer element and tests to ensure outcomes are achieved.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	63	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	4.2
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/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	5% (5)	5, 10	LO# 1,2,3, 4
	Assignments	7	10% (10)	2,4, 6, 8, 10, 12, 14	LO# 4, 5 , 8 ,9,11,13
	Projects / Lab.				
	Report				
Summative assessment	Midterm Exam	2hr	40% (40)	8	1-9
	Final Exam	3hr	60% (60)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي النظري

	Material Covered
Week 1	Introduction
Week 2	determinacy of structures Stability and
Week 3	Stability and determinacy of structures
Week 4	Concrete Buiding design
Week 5	Beams-Concrete Buiding design
Week 6	short colums-Concrete Buiding design
Week 7	long colums-Concrete Buiding design
Week 8	one way slabs-Buiding design Concrete
Week 9	two way slabs-Concrete Buiding design
Week 10	Steel Structures
Week 11	Steel Structures-Compression members
Week 12	Steel Structures-Tension members
Week 13	Steel Structures-Beam column members
Week 14	Steel Structures-Connection design
Week 15	Steel Structures-Design methods
Week 16	Exam

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	- Structural Analysis by Aslam Kassimali. - Design of Reinforced Concrete 10th Edition by Jack C. McCormac, Russell H. Brown. - Steel Structures: Design and Behavior Charles G Salmon; John E Johnson; Faris A Malhas.	Yes
Recommended Texts		Yes
Websites		

Grading Scheme
مخطط الدرجات

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

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	ARCHITECTURAL DESIGN 7			**Module Delivery**	
Module Type	CORE			☐ **Theory** ☒ **Lecture** ☒ **Lab** ☒ **Tutorial** ☒ **Practical** ☒ **Seminar**	
Module Code	ARCH4101				
ECTS Credits	10				
SWL (hr/sem)	250				
Module Level		4	**Semester of Delivery**		7
Administering Department		Arch	**College**		COENG
Module Leader	DR. ZAYNAB RADI ABAAS Dr. Zainab Khalid Ahmed		**e-mail**		DR.ZAYNABR.A@COENG.UOBAGHDAD.EDU.IQ zainab.khalid@coeng.uobaghdad.edu.iq
Module Leader's Acad. Title		/	**Module Leader's Qualification**		/
Module Tutor	/		**e-mail**		None
Peer Reviewer Name		Prof. Dr. Mohammed Qasim Al-Ani	**e-mail**		dr.mohammed.qasim@nahrainuniv.edu.iq
Review Committee Approval		01/9/2024	**Version Number**		1.0

Relation with Other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	Arch.design 6	**Semester**	6
Co-requisites module			
Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية			
Module Aims أهداف المادة الدراسية	•Expanding the horizons of the architectural student and moving them from thinking about designing a single, individual building with a specific function to designing building complexes within the general framework of the city. •Training on how to link the project to the urban fabric of the city by dealing with the basics of urban design. Interacting with the fabric of the city and the extension of visual and movement axes, and the impact of the characteristics of the urban fabric and the specific area on the design of student design projects.		
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	• Building imagination to support ideas. • Learn how to develop ideas into a design project that can be implemented in reality. • Develop students' ability to develop a design that meets reasonable costs and efforts. • Develop the ability to deal with urban areas. • Develop the ability to recognize multi-functional projects. • Building imagination to support their conceptual framework in performing assignments and homework. • Building the ability to work with a team to integrate their efforts with others. • Learn to manage a project with students		
Indicative Contents المحتويات الإرشادية	- The first design project aims to enable the student to deal with major design problems through an integrated design of a complex project with multiple kinetic, structural, service, and functional systems at the same time. It can be either a healthcare project (a hospital, for example) or an educational or academic project; a university or college as part of it. Hence, the student deals with the project in two parts: the first stage consists of a basic plan of the main components (the main departments) and how to design the mass space. The program aims to identify the student with the importance of the complete design of the space mass, where the space represents the basic and organized part of the basic mass and the components of the project, dealing with the basic plan as part of the city structure, relating it to the urban fabric of the city, and		

	interacting with the project's special area limitations. Then the student moves on to the design of the plans for the departments and their functions. The project contains a group of small-size administrative spaces and a group of middle-size spaces like the hospital departments in a clear typical repetition and a group of large-size spaces like study halls in addition to the basic services and a big hall where he deals with different span structural skeletons ranging from small, middle, large, and very large and taking into concentration the services and joints, etc., with the complete study of their service systems. Over the fifteen weeks the students will learn to develop the project within several stages started with: Project studies, site analysis, concept, plans, elevations, Sections, and 3d modeling and perspectives,
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	1. Supporting theoretical lectures. 2. Individual project submission and weekly development critique 3. Interactive lessons. 4. Study groups. 5. Reports and presentations. 6. Tests and Day-sketches. 7. Questions and discussions inside the classroom. Group and individual criticism of projects designed by students.

Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	155	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	8
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	95	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	2
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	250		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment 150	**REPORTS & STUDIES**	5	5% (5)	1,2	from 1 to 2
	ASSAINMNETS	11	10% (10)	3-10	from 3 to 10

		10	10%		from 3 to 12
	DAY SKETCH	4	20%	3,6,9,12	from 3 to 12
	PRELIM (2)-PRE	3	30%	8,11,13	
Summative assessment 95+5	**MID EXAM**	1*5	5%		MID COURSE
	FINAL PROJECT	1*30	15%	15	WEEK 15
	FINAL EXAM	1*5	5%	15	WEEK 14-15
	Daily - preparation HomeWorks	10*2		3-10	from 3 to 12
	Project preparation	10*2		4,7,13, 15	from 3 to 12
	SEMENAR	10*1.5		1-12	from 1 to 10
			100%		
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي

	Material Covered	
Week 1	- STUDIES	WITH SEMENARS , **Daily - Preparation Homeworks, AND** CLASS WORK
Week 2	- CONCEPT	
Week 3	- GROUND FLOOR- OUTPATIENT+ DAY SKETCH	
Week 4	- X-RAY & LABS	
Week 5	- ENTRY AND SITE	
Week 6	- FINAL CONCEPT+ DAY SKETCH	
Week 7	- SECOND FLOOR OPERATION	
Week 8	- PRELIM 1+ ICU& PCU	
Week 9	- WARDS+ DAY SKETCH	
Week 10	- BASEMENT + with 2 facades	
Week 11	- PRELIM 2+ 2 SECTIONS	
Week 12	- Criticism +DAY SKETCH	
Week 13	- PREFINAL	
Week 14	- Criticism	
Week 15	- FINAL	

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	Architecture and the Modern Hospital Nosokomeion Lean-Led Hospital Design Creating the Efficient Hospital of the Futur Naida Grunden and Charles Hagood - General hospitals Neufert المعايير التصميمية للمستشفيات والمنشات الصحية- المركز القومي لبحوث الاسكان -	
Recommended Texts	LEED for Healthcare Committee	
Websites	- https://www.healthfacilityguidelines.com/FPUs - https://www.cfm.va.gov/til/dGuide.asp - https://www.wbdg.org/dod -	

APPENDIX:

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

NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information
معلومات المادة الدراسية

Module Title	INTERIOR DESIGN	**Module Delivery**	
Module Type	C	☐ **Theory** ☒ **Lecture** ☐ **Lab** ☒ **Tutorial** ☒ **Practical** ☒ **Seminar**	
Module Code	ARCH4108		
ECTS Credits	4		
SWL (hr/sem)	100 HOURS		
Module Level	4	**Semester of Delivery**	7
Administering Department	ARCH	**College**	College of Engineering
Module Leader	DR RAND H. M. AGHA	**e-mail**	rand.h.m.agha@coeng.uobaghdad.edu.iq
Module Leader's Acad. Title	Assistant professor	**Module Leader's Qualification**	Ph.D. /Intelligent Building
Module Tutor		**e-mail**	
Peer Reviewer Name	/	**e-mail**	/
Review Committee Approval		**Version Number**	

Relation with Other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module		**Semester**	1
Co-requisites module	yes		
Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية			
Module Aims أهداف المادة الدراسية	To identify the students with the most specialized aspects involved in interior architecture and interior design from those aspects in architectural design in general. The theoretical part: In the first level, the intellectual, cultural and artistic trends are taught especially those overlapping with the industrial design, craftsmen production, materials and those trends that overlap with the artistic intellect of ornamenting, services and light systems, pieces of furniture. It also includes a general historical presentation and a detailed presentation of the developments of these thoughts and trends during the twentieth century concerning the conclusion of the different attitudes of the contemporary interior design thoughts and explaining what they mean in a way that guarantees the student's understanding of the different circumstances that have led to evolution of these thoughts in their places in order to reach the ability to recognize what thoughts can be benefited from in the designs presented by the students and in accordance with the peculiarity of the Iraqi community and the special environmental and territorial conditions and far away from the strange ideas or presentations which are socially, environmentally and culturally inappropriate. The second level is being put forward according to man's perception and acceptance of the interior surrounding space, the human variables at the individual and different communities' level in the perceptional and appreciative values in understanding and using the spaces and their functional standards and studying the characteristics of spaces' sequences and moving among them and their abstract and symbolic influences on man. The practical part: The term includes two projects: one of them lasts for four-five weeks and aims to enlarge the students' imagination and creativeness at the intellectual levels and using the basic interior design elements in shape, color, light, furniture and their role in the concentration on the real aspects. The second project lasts for two months and it adopts a real and local framework of a special characteristic in thought and the real executive application of real spaces and is put forward as a design problem in all its functional and executive levels in addition to the intellectual, abstract and philosophical levels and the style of expressing the		

	nature and specialty of the Iraqi community.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	
Indicative Contents المحتويات الإرشادية	
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	1- Brainstorming 2- Discussion or work groups to encourage the exchange of experiences 3- Competition, comparison, and effective communication between different groups 4- Trips for related projects. 5- Reports and presentations.

Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	64	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	46	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	100		

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes (2)	2	6% (6)	3, 9	1-3, 4-9
	Responded to online question	2	4% (4)	5, 11	1-5, 6-11
	Prepper elements scale 1/1	1	10% (10)	8	
	Groupe discussion	15	5% (5)	1-15	1-14
	Error!Groupe study	1	5% (5)	2	
	Day sketch	2	10% (10)	4,10	
	Project	14	12% (12)	1-14	
	Final project	1	8% (8)	15	
Summative assessment	**Final exam**	4h	40% (40)		All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي

	Material Covered	
	Theoretical part	**Practical parts**
Week 1	Introductory lecture	Defining the proposed project and requirements of study groups
Week 2	Architectural space and interior space	A field visit of the proposed project site, with a visit to similar examples
Week 3	Classification of interior spaces	Preliminary analytical study of the project + reality model 1:50
Week 4	Indicators of internal spaces language	A final presentation of the project study + a final model of the external boundaries of the proposed space 1:20
Week 5	The Physical indicators in interior spaces	Initial presentation of the philosophical/ design idea + model with the ceiling reflecting the idea 1:20
Week 6	The visual indicators in interior spaces	Design idea development + sketch design

Week 7	The specificity of internal spaces language	A detailed presentation of the movement system and its relationship to the proposed furniture
Week 8	The nature of the internal spaces' language	Confirming the design idea and providing integrated horizontal with vertical plans
Week 9	Review of programs used in designing interior spaces +quiz	A detailed presentation of finishing floors, walls, and ceilings + sketch design 2
Week 10	Theoretical background of interior spaces in the Renaissance era	Detailed presentation of the color system
Week 11	Theoretical background of interior spaces in Eastern/Japanese	A detailed introduction to the artificial lighting system and its relationship to natural lighting
Week 12	Theoretical background of modern interior spaces	Providing details of the electrical, heating and cooling systems, as well as the safety and security system + sketch design 3
Week 13	Theoretical background of post-modern interior spaces	Integrated pre-final submission
Week 14	Theoretical background of contemporary interior spaces	Perspectives and details 1:10-1:5
Week 15	Analyses and discuss examples of real-life projects and student projects from previous years	Final submission of the project Model 1:20 Detailed and perspectives sheets 1:10-1:5

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Agha, Rand. (2010) Technology of architecture and Interior Design	Yes
Recommended Texts	Al-Akkam, Akram. (2010) Aesthetics of Architecture and Interior Design -Ching, Francis D. K, Architecture: Form, Space, Nostrand Reinhold, New York, 2023 -Ching, Francis D. K., Interior Design Illustrated, Van Nostrand Reinhold Company, New York, 2007. -Agha, RHM and Alinizi EA (2024)	Yes

	Effect of Blended Learning on Students' Products of Desi of Interior Space Doaa Hazim and Agha RHM (2023) Using Modern Techniques in the Formation of Flexible Interior Spaces: Insights from Iraq. Agha, Rand. (2003) Technology and Lighting in Interior Design Agha, Rand. (2002) The Effect of Technology on Interior Design. Agha, Rand. (2002) The Technological Indicators of the Relationship between Structure and Form in Contemporary Interior Space. Abererombie Stanley, 1990 A philosophy of Interior Design, Harper and Ron Publisher, New York Kurtich , John and Eakin, 1993 Garret. Interior Architecture, Von Nostrand, New York.	
Websites	www.Arch Daily.com www.Interior Design.com www.Pinterest.com	

APPENDIX:

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

Note:

NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information
معلومات المادة الدراسية

Module Title	HISTORY OF ARCH, MODERN ARCH 4	**Module Delivery**	
Module Type	BASIC	**Lecture** **Theory**	
Module Code	ARCH4105		
ECTS Credits	4		
SWL (hr/sem)	100		

Module Level	UGIV	**Semester of Delivery**	Seven
Administering Department	Arch	**College**	Engineering
Module Leader	Hisham Alaa Husain	**e-mail**	hisham.husain@coeng.uobaghdad.edu.iq
Module Leader's Acad. Title	Lecturer	**Module Leader's Qualification**	Ph.D.
Module Tutor	None	**e-mail**	None
Peer Reviewer Name	None	**e-mail**	None
Review Committee Approval		**Version Number**	1.0

Relation With Other Modules
العلاقة مع المواد الدراسية الأخرى

Prerequisite module	History of Arch. World Arch 3	**Semester**	Six
Co-requisites module	History of Arch. Islamic Arch. 5	**Semester**	Eight

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	The course will focus on the evolution of modern and contemporary architecture in the twentieth century: • Studying architectural styles, movements, and trends that have influenced global architectural identity. • Achieving a comprehensive and in-depth understanding of the evolution of architecture through the ages. • Exploring the works of pioneers who played a pivotal role in shaping the path of architecture. • Highlighting groundbreaking innovations and significant milestones in the development of modern and contemporary architecture. • Analyzing the evolution of architecture from both theoretical and practical perspectives. • Considering the impact of various contexts—social, cultural, economic, and environmental—on architectural thought and its application.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. **Enhanced Design Thinking:** Students learn to draw on historical knowledge and innovative practices to inform their design process. 2. **Cultural and Historical Awareness:** They gain a global perspective, appreciating the diversity of architectural responses to different challenges. 3. **Professional Preparedness:** Learners develop skills to analyze, innovate, and apply architectural principles in a professional setting. 4. **Contribution to the Field:** The course inspires students to contribute meaningfully to the evolution of architecture through informed, contextualized, and creative designs. 5. **Critical Evaluation Skills:** Students develop the ability to critically evaluate architectural works and movements. This fosters intellectual independence, enabling students to construct informed opinions and make evidence-based decisions in their professional careers. 6. **Interdisciplinary Insight:** By examining the influence of social, cultural, economic, and environmental contexts, students gain an interdisciplinary understanding of architecture.
Indicative Contents المحتويات الإرشادية	
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	• **Methodological Lectures** Structured and organized lectures designed to provide students with a clear understanding of key concepts, theories, and historical developments in architecture, following a systematic approach. • **Open Classroom Discussions with Students** Interactive discussions where students and instructors engage in critical conversations, share ideas, and analyze architectural topics in an open and collaborative environment, encouraging active participation and diverse perspectives. • **Closed + Open Exams**

	A combination of assessment methods: - **Closed Exams:** Focus on testing students' knowledge and retention of the course material through structured questions. - **Open Exams:** Encourage creative thinking and problem-solving by allowing students to apply their knowledge and analyze architectural issues with fewer constraints. • **Student-Prepared Reports** Students research and compile detailed reports on specific topics, styles, or architectural pioneers, developing their analytical, writing, and research skills while deepening their understanding of the subject matter. • **Use of Visual Media (Videos)** Incorporating videos to enhance the learning experience by showcasing real-world examples, historical documentaries, and case studies, making complex architectural concepts more tangible and engaging for students.

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
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	100		

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Open Exam**	1	10% (10)	4	LO #1,5
	Closed Exam	1	10% (10)	12	LO #2,3,6
	Report-Paper	1	10% (10)	Between 10-14	LO #1,4,6
	Report-Poster	1	10% (10)	13	LO #1,4,6
Summative assessment	**Midterm Exam**	2 hr	10% (10)	8	LO #2,3,6,5
	Final Exam	3 hr	50% (50)	16	LO #All
Total assessment			100% (100)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Introduction to the 20th century timeline context and its impact upon the modern world especially on shaping the future of modern and contemporary architecture.
Week 2	Late 19th Century Eclecticism, the impact of the Industrial Revolution and on architecture, Chicago School, Arts and Crafts, Art Nuevo and Prairie School.
Week 3	Architectural schools and currents: Expressionism, Futurism, De-Stijl, Bauhaus, Rationalism.
Week 4	**Open Exam**
Week 5	The First Moderns and Modernism (International Style)
Week 6	Modernism Currents in the 20th century
Week 7	Modernism in Iraq and the Critique of Modernism
Week 8	**Midterm Exam**
Week 9	Postmodernism
Week 10	Contemporary Current (Minimalism, Ticino School, Neo-Rationalism, High-tech)
Week 11	Deconstruction and Folding
Week 12	**Closed Exam**
Week 13	Contemporary Architecture (trends and styles) after the year 2000
Week 14	Open Discussion about the future of architecture and architectural styles
Week 15	Final Poster Submission
Week 16	**Final Exam**

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	شيرين احسان شيرزاد: الحركات المعمارية الحديثة	YES
Recommended Texts	Story of modern architecture/ Jürgen Tilez The Story of contemporary architecture/ Pablo Favelo Architecture-The Ground Breaking Moment/Isabile Khul	No
Websites		

APPENDIX:

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

Note:

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	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Electrical Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information
معلومات المادة الدراسية

Module Title	**Environment sciences /Chemistry**	Module Delivery
Module Type	Core	☑ Theory ☑ Lecture ☐ Lab ☐ Tutorial ☑ Practical ☐ Seminar
Module Code	ARCH4109	
ECTS Credits	6	
SWL (hr/sem)	150	

Module Level	4	Semester of Delivery	7
Administering Department	Type Dept. Code	College	Type College Code
Module Leader	Dr. Ghada M. Ismael Kamoona	e-mail	g.kamoona@coeng.uobaghdad.edu.iq
Module Leader's Acad. Title	Assistnt Professor	Module Leader's Qualification	Ph.D.
Module Tutor	None	e-mail	None
Peer Reviewer Name	None	e-mail	None
Review Committee Approval	01/09/2024	Version Number	

Relation With Other Modules
العلاقة مع المواد الدراسية الأخرى

Prerequisite module	None	Semester	

Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Aims **أهداف المادة الدراسية**	1. Identify the student with a wide database of the whole basic concepts of the reciprocal relationship between the natural environment and architecture. 2. Clarify the impact of climatic factors on the internal environments of the building and how to design climate-responsive interior spaces. 3. Clarify the importance of application the solar energy in the buildings. 4. Introducing the concepts of the basics of heat transfer through the outer shell of the building 5. Illustrate the environmentally sustainable concepts. 6. Clarify the importance of environmentally sustainable architecture in minimizing consumption of: energy, resources and materials, as well as provide healthy indoor environments for building's occupants. 7. Illustrate the importance of sustainable development.
Module Learning Outcomes **مخرجات التعلم للمادة الدراسية**	1. Understand and perceive the concepts and factors of climate and natural environment, and their effects on the buildings. 2. Understand and apply the principles, techniques, skills and design strategies, of environmentally sustainable building's design. 3. Be able to analyze and design: form, functions and interiors of environmental buildings in hot – arid regions. 4. Be able to apply modern knowledge, science, engineering and technology on sustainable building design. 5. Develop the student's ability to apply the theoretical information (Theoretical side) on the real experiment (Practical side).
Indicative Contents **الإرشادية المحتويات**	Indicative content includes the following. Part A - Environmental aspects including climatic factors and other factors of the natural environment. Part B - The impact of environmental factors on architecture in terms of its effect the building envelope and the internal environment of the building. Part C - Designing buildings compatible with the natural environment.

Learning and Teaching Strategies
استراتيجيات التعلم والتعليم

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

Student Workload (SWL)
الحمل الدراسي للطالب

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	93	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	6.2
Unstructured SWL (h/sem(	57	Unstructured SWL (h/w) أسبوعيا للطالب المنتظم غير الدراسي الحمل	3.8
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	الحم 150		

Module Evaluation
تقييم المادة الدراسية

		Time/ Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)		
	Assignments	2	10% (10)		
	Projects	1	10% (10)		
	Report	1	5% (5)		
Summative assessment	Midterm Exam	2 hr	15% (15)		
	Final Exam	2 hr	50% (50)	16 All	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	Introduce the curriculum during the course and clarification the general environmental and climatic concepts.
Week 2	Clarification the concept and principles of natural ventilation in the buildings.
Week 3	Clarification the concept of thermal comfort and its fundamental variables.
Week 4	Clarifying thermal comfort achieving importance within building spaces, as well as studying the concept of bioclimatic assessment and its fundamental variables.
Week 5	Clarification the concept of ecological and ecological principles, as well as ecological architecture.
Week 6	Definition the solar radiation and studying the concept of solarization with its achieving in the building spaces, then clarifying the impact of solar radiation on the directions of the building, especially the buildings in hot - arid regions.
Week 7	Clarification passive and active design strategies in the buildings.
Week 8	Studying the importance of the form and formation in architecture especially the buildings in hot – arid regions.
Week 9	Studying the building envelope and its basic elements, then clarifying the basics and methods of thermal transfer through the building's envelope.
Week 10	Clarification the global environmental problems, climatic changes and the concept of sustainability.
Week 11	Clarification sustainable buildings.
Week 12	Studying design strategies of environmentally sustainable architecture at the level of the building.
Week 13	Studying design strategies of environmentally sustainable architecture at the Urban level.
Week 14	Explain environmentally sustainable design strategies in the Iraqi traditional buildings.
Week 15	Preparatory Week
Week 16	Final Exam

Learning and Teaching Resources مصادر التعلم والتدريس		
Required Texts	Lectures of Dr. Ghada Kamoona Lectures of Climate and Architecture (By: Dr. Bahjat Rashad Shahin)	
Recommended Texts	Many Books, researches and articles about sustainable architecture and climate in hot arid regions.	

APPENDIX:

GRADING SCHEME مخطط الدرجات				
Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	**A** - Excellent	إمتياز	90 - 100	Outstanding Performance
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	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX** – Fail	مقبول بقرار	(45 – 49)	More work required but credit awarded
	F – Fail	راسب	(0 – 44)	Considerable amount of work required

Note:

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ملاحظة: هذا النموذج تم وضعه وتقديمه من قبل مديرية ضمان الجودة في وزارة التعليم العالي والبحث العلمي

	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information
معلومات المادة الدراسية

Module Title	URBAN PLANNING AND DESIGN	**Module Delivery**	
Module Type	CORE	☐ **Theory** ☒ **Lecture** ☐ **Lab** ☒ **Tutorial** ☒ **Practical** ☒ **Seminar**	
Module Code	ARCH4111		
ECTS Credits	4		
SWL (hr/sem)	100		

Module Level	4	**Semester of Delivery**	7
Administering Department	Arch	**College**	CEC
Module Leader	ZAYNAB RADI ABAAS	**e-mail**	DR.ZAYNABR.A@COENG.UOBAGHDAD.EDU.IQ
Module Leader's Acad. Title	/	**Module Leader's Qualification**	/
Module Tutor	/	**e-mail**	None
Peer Reviewer Name	/	**e-mail**	/
Review Committee Approval	[redacted]	**Version Number**	1.0

Relation with Other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module		**Semester**	
Co-requisites module			
Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية			
Module Aims أهداف المادة الدراسية	• Introducing the student to the basic vocabulary of the concept and theories of urban design, its perception and the terms associated with it according to theorists in a descriptive manner and through analytical methods. • Realizing the quality of urban form and its most important spatial indicators		
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	The lesson organizes analytical applications of the various urban theories and formations, which provides the student with an intellectual tool that enables him to understand the theory and its spaces, organizational relationships, patterns, orders and communications associated with it.		
Indicative Contents المحتويات الإرشادية	Reports Daily Interactive Quizzes Oral Quizzes Semester Quizzes Brainstorming Questions Theory Analysis		
Learning and Teaching Strategies استراتيجيات التعلم والتعليم			
Strategies	1. Lectures. 2. Tutorials. 3. Homework and Assignments. 4. Interactive lessons and brainstorming tests. 3. Assignments and reports in the online class 4. Daily and semester tests and exams 5. In-Class Questions and Discussions. 6. Connection between Theory and Application. 7. Extracurricular Activities. 8. Seminars. 9. In- and Out-Class oral conservations. 10. Reports, Presentations, and Posters.		

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	2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	37	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	2
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	100		

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment 3+60	**Lecture**	4*10	10	10	
	Practical exam	2*4	20	4	
	Seminar	1*3	10	3	
	Mid exam	2*2	30	2	
	Assignments	5*1	10	3	
Summative assessment 37	**Daily exam**	2*3	10	1	
	Tuter	3*2			
	Extracurricular activity	2*3			
	Reports	5*2	10	2	
	Daily lesson preparation	2*3			
	Labs	1		1	
	clinical	1		1	
	Online lecture	1		1	
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي

	Material Covered
Week 1	- Introduction to the subject and curriculum
Week 2	- Urban Design and planning Concept

Week 3	- Resources of urban design theories - Interactive daily exam
Week 4	- Theories for studying space-place relations of the urban environment
Week 5	- Theories of the quality of urban form
Week 6	- Exam 1
Week 7	- Cityscape Theories and Definition of Urban Space - Interactive daily exam
Week 8	- Spatial Theories
Week 9	- Theories of Urban Space Morphology
Week 10	- Interactive daily exam
Week 11	- Morphological Theories
Week 12	- Urban Environmental-Behavioral Theories
Week 13	- Exam 2
Week 14	- Urban sustainability theory
Week 15	- Reports

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Urban Design Reader, Matthew Carmona & Steve Tiesdell The Image Of The City, Kevin Lynch Good City Form : Kevin Lynch The Concise Townscape By Gordon Cullen - Finding Lost Space: Theories Of Urban Design, Roger Trancik	 Yes Yes
Recommended Texts	A Pattern Language Towns' Buildings' Construction: Christopher Alexander The Death & Life Of Great American Cities, Jane Jacobs The Street: A Quintessential Social Public Space, Vikas Mehta Urban Design: Green Dimensions, Cliff Moughtin & Peter Shirley House Form & Culture By: Amos Rapoport City, William H. Whyte Urban Social Sustainability: Theory, Policy and Practice, By: M. Reza Shirazi and Ramin Keivani	 Yes Yes

	The Architecture of the City: by Aldo Rossi	
Websites	Prof. Julian Beinart-MIT https://ocw.mit.edu/courses/architecture/4-241j-theory-of-city-form-spring-2013/ My Channal https://studio.youtube.com/channel/UCnhxMduJzVtlL4CV7-1O6eg/videos/upload?filter=%5B%5D&sort=%7B%22columnType%22%3A%22date%22%2C%22sortOrder%22%3A%22DESCENDING%22%7D E-classroom https://classroom.google.com/u/0/c/NjYyNTYxMjM3MzYx -	

APPENDIX:

GRADING SCHEME مخطط الدرجات				
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Ministry of Higher Education and Scientific Research - Iraq
University of Baghdad
College of Engineering
Department of Architectural Engineering

MODULEDESCRIPTORFORM نموذج وصف المادة الدراسية

Module Information
معلومات المادة الدراسية

Module Title	**Airconditioning**	**Module Delivery**	
Module Type	**S**	■ **Theory** ■ **Lecture** ☐ **Lab** ☐ **Tutorial** ■ **Practical** ☐ **Seminar**	
Module Code	**ARCH 4125**		
ECTS Credits	**2**		
SWL (hr/sem)	**50**		

Module Level	4	**Semester of Delivery**	7
Administering Department	ARCH	**College**	University of Baghdad
Module Leader	**Osam Hassan Attia**	**e-mail**	osamhsattai@uobaghdad.edu.iq
Module Leader's Acad. Title	Assi. Prof.	**Module Leader's Qualification**	Ph.D. in Mechanical Engineering
Module Tutor		**e-mail**	
Peer Reviewer Name		**e-mail**	
Review Committee Approval	1-9-2024	**Version Number**	1.0

Relation with other modules
العلاقة مع المواد الدراسية الاخرى

Prerequisite module	\	**Semester**	\
Co-requisites module		**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims **أهداف المادة الدراسية**	1. Introducing the student to some aspects of air conditioning field that the architect must know in order to develop his design equanimity. 2. Introducing the student to some aspects of technical air conditioning systems related to building information that the architect must know in order to develop his design and construction capacity. 3. This course deals with the basic concept of air conditioning and Simple types of systems are introduced to the students. 4. To understand how types of air conditioning systems effect on both inside and outside architectural design. 5. This is the basic subject for all simple of air conditioning systems, detailed sections in buildings while effects of each detail take in consideration. 6. To understand how cooling and heating loads of building effect on architectural design. 7. To understand construction material including doors, windows and partitions effect of insulation material on heat loss which reflected on the architectural design.
Module Learning Outcomes **مخرجات التعلم للمادة الدراسية**	1- Graduates will be able to evaluate human comfort requirements which are handling by air conditioning process that be done on air. 2- Graduates will have the ability to determine or estimate cooling and heating loads. 3- According to the building function, graduates will be able to select suitable air conditioning system with respect to environment and load. 4- Forming a knowledge base that qualifies the student to understand local materials, their expressive properties, and ways of using them in construct to save energy loss. 5- Graduates will be able with other engineering in group work, or work with group team with other specializations to improve building designer's skills. 6- Graduate will be able to lead and positively interact, with other engineers working on any project, like structural, sanitary, electrical mechanical or surveying engineers. 7- Graduates will be able to read air conditioning working drawing set.

Indicative Contents **المحتويات الإرشادية**	Indicative content includes the following: -The 6th semester includes theoretical of air conditioning concept, In order to maintain required conditions inside the conditioned space, energy has to be either supplied or extracted from the conditioned space. -The energy in the form of sensible as well as latent heat has to be supplied to the space in winter and extracted from the conditioned space in case of summer. -An air conditioning system consists of an air conditioning plant and a thermal distribution system. -The air conditioning (A/C) plant acts either as a heat source (in case of winter systems) or as a heat sink (in case of summer systems). -Air, water or refrigerant are used as media for transferring energy from the air conditioning plant to the conditioned space. -A thermal distribution system is required to circulate the media between the conditioned space and the A/C plant. - Another important function of the thermal distribution system is to introduce the required amount of fresh air into the conditioned space so that the required Indoor Air Quality (IAQ) can be maintained. Selection of a suitable air conditioning system depends on: 1. Capacity, performance and spatial requirements 2. Initial and running costs 3. Required system reliability and flexibility 4. Maintainability 5. Architectural constraints

Learning and Teaching Strategies **استراتيجيات التعلم والتعليم**	
Strategies	The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises through active participation and encouraging students after graduation to choose appropriate methods to solve problems and errors facing the architect. While at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students.

Student Workload (SWL)
الحمل الدراسي للطالب

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	64	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	36	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	2
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	100		

Module Evaluation
تقييم المادة الدراسية

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

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي النظري

	Material Covered
WEEK 1	**Introduction to air conditioning.**
WEEK 2	**Meaning of human comfort and parameters effect on it.**
WEEK 3	**Factors affecting optimum effective temperature.**
WEEK 4	**Psychometric chart of air conditioning +Quiz.**
WEEK 5	**Process on air with assistance by psychometric chart.**
WEEK 6	**Selection of apparatuses dealing with air conditioning throw psychometric chart.**
WEEK 7	**Mid-term Exam +parameters effect on heating load estimation.**

WEEK 8	**Heating load estimation**
WEEK 9	**Parameters effect on cooling load estimation**
WEEK 10	**Cooling load dependencies and Cooling load estimation.**
WEEK 11	**Building survey and load estimation + Quiz.**
WEEK 12	**Ducting and piping principles**
WEEK 13	**Air conditioning system selection to establish human comfort.**
WEEK 14	**Architect design mistake related with A/C and correction method.(part one)**
WEEK 15	**Architect design mistake related with A/C and correction method.(part two)**
WEEK 16	**Final Exam**

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	HANDBOOK OF AIR CONDITIONING AND REFRIGERATION, Shan K. Wang, Second Edition, McGraw-Hill, 2000	Yes
Recommended Texts	1. REFRIGERATION AND AIR CONDITIONING, Ramesh Chandra Arora, 2010. 2. Refrigeration & Air-Conditioning, Copyright by MADE EASY Publications Pvt. Ltd. Fifth Edition: 2022 3. Air Conditioning and Refrigeration, REX MILLER, McGraw-Hill, 2006. 4. Building Construction Details /Practice Drawings/Hans bans\1983 5. New Architecture and Technology /Gylula Sebastian/2003 6. Mitchells –introduction to building -3rd edition ,2002	yes
Websites	- air conditioning books - building construction details - new architecture and technology	

APPENDIX:

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

Note:

NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

ملاحظة: هذا النموذج تم وضعه وتقديمه من قبل مديرية ضمان الجودة في وزارة التعليم العالي والبحث العلمي

Ministry of Higher Education and Scientific Research - Iraq
University of Baghdad
College of Engineering
Department of Architectural Engineering

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information
معلومات المادة الدراسية

Module Title	ARCHITECTURAL DESIGN 8	**Module Delivery**	
Module Type	CORE	☐ **Theory** ☒ **Lecture** ☒ **Lab** ☒ **Tutorial** ☒ **Practical** ☒ **Seminar**	
Module Code	ARCH4201		
ECTS Credits	10		
SWL (hr/sem)	250		
Module Level		**Semester of Delivery**	8
Administering Department	Arch	**College**	COENG
Module Leader	DR. ZAYNAB RADI ABAAS DR. ZAINAB KHALID AHMED	**e-mail**	DR.ZAYNABR.A@COENG.UOBAGHDAD.EDU.IQ zainab.khalid@coeng.uobaghdad.edu.iq
Module Leader's Acad. Title	/	**Module Leader's Qualification**	/
Module Tutor	/	**e-mail**	None
Peer Reviewer Name	Prof. Dr. Mohammed Qasim Al-Ani	**e-mail**	dr.mohammed.qasim@nahrainuniv.edu.iq
Review Committee Approval	01/9/2024	**Version Number**	1.0

Relation with Other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	Arch design 7	**Semester**	7
Co-requisites module			
Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية			
Module Aims أهداف المادة الدراسية	•Expanding the horizons of the architectural student and moving them from thinking about designing a single, individual building with a specific function to designing building complexes within the general framework of the city. •Training on how to link the project to the urban fabric of the city by dealing with the basics of urban design. Interacting with the fabric of the city and the extension of visual and movement axes, and the impact of the characteristics of the urban fabric and the specific area on the design of student design projects.		
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	• Building imagination to support ideas. • Learn how to develop ideas into a design project that can be implemented in reality. • Develop students' ability to develop a design that meets reasonable costs and efforts. • Develop the ability to deal with urban areas. • Develop the ability to recognize multi-functional projects. • Building imagination to support their conceptual framework in performing assignments and homework. • Building the ability to work with a team to integrate their efforts with others. • Learn to manage a project with students • Learn drawing and design programs and develop presentation skills		
Indicative Contents المحتويات الإرشادية	- Multi-family residential complex design project. The first stage is specified to team work while the second stage focuses on part of the project for each student of the first stage team. - The first stage is the urban housing design stage (the master plan for the neighborhood), through which the student learns about the components of the residential neighborhood and how to plan a sustainable housing complex with a relatively high population density to obtain the largest number of residential units and thus house the largest group of families		

	in a specific location and with the best environmental/social health conditions with the social and technical infrastructure services of the residential complex. This is done as a first stage after identifying the characteristics of the residential, environmental and social area. The project also aims to link the design complex to the urban environment of the city by understanding the urban fabric of the integrated sector surrounding the project and linking it with the axes of movement, visual axes and signs in the city and forming a basic urban design for the complex with distinctive characteristics by studying the relationship between space and mass to obtain the highest features and characteristics of multi-family housing in the city to ensure decent housing for all families. The second phase represents the transition phase from the block formation and basic planning to the integrated detailed design of the residential complex with all its components and levels, including all the details of a single residential unit, provided that the project includes a homogeneous mixture and an integrated segment of the local community containing different groups of family sizes and thus groups of different sizes of residential units ranging from one and two bedrooms for the small family to three and four bedrooms for the medium and large family. While working to raise the residential standard of the residential unit with its integrated services, whether at the level of the residential unit, the residential complex, or the social infrastructure, in a manner consistent with the characteristics of the local environment and global sustainability standards. Over the fifteen weeks the students will learn to develop the project within several stages started with: Project studies, site analysis, concept, plans, elevations, Sections, and 3d modeling and perspectives,
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	1. Supporting theoretical lectures. 2. Individual project submission and weekly development critique 3. Interactive lessons. 4. Study groups. 5. Reports and presentations. 6. Tests and Day-sketches. 7. Questions and discussions inside the classroom. Group and individual criticism of projects designed by students.

Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	155	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	8
Unstructured SWL (h/sem)	95	**Unstructured SWL (h/w)**	2

الحمل الدراسي غير المنتظم للطالب خلال الفصل		الحمل الدراسي غير المنتظم للطالب أسبوعيا	
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	250		

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment 150	**REPORTS & STUDIES**	5	5% (5)	1,2	from 1 to 2
	ASSAINMNETS	11	10% (10)	3-10	from 3 to 10
		10	10%		from 3 to 12
	DAY SKETCH	4	20%	4,6,12, 14	from 3 to 12
	PRELIM (2)-PRE	3	30%	7,11,13	
Summative assessment 95+5	**MID EXAM**	1*5	5%		MID COURSE
	FINAL PROJECT	1*30	15%	15	WEEK 15
	FINAL EXAM	1*5	5%	15	WEEK 14-15
	Daily - preparation HomeWorks	10*2		3-10	from 3 to 12
	Project preparation	10*2		4,7,13, 15	from 3 to 12
	SEMENAR	10*1.5		1-12	from 1 to 10
			100%		
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي

		Material Covered
Week 1	- Submission of studies	-
Week 2	- Preliminary submission of masterplan urban design	
Week 3	- Final masterplan urban design	
Week 4	- Preliminary submission of urban assembly + Day sketch	
Week 5	- Advanced submission of urban assembly	
Week 6	- Urban design unit with assembly	

Week 7	- Submission of apartment plans within the elected urban assembly- Prelim 1	
Week 8	- Development of apartment plans with assembly - facades	
Week 9	- Sections + Day sketch	
Week 10	- Aggregation and plan magnifier 1:100	
Week 11	- Prelim 2	
Week 12	- Criticism, explanation and evaluation + Day sketch	
Week 13	- Pre-final	
Week 14	- Day sketch	
Week 15	- Final housing project	

Learning and Teaching Resources

مصادر التعلم والتدريس

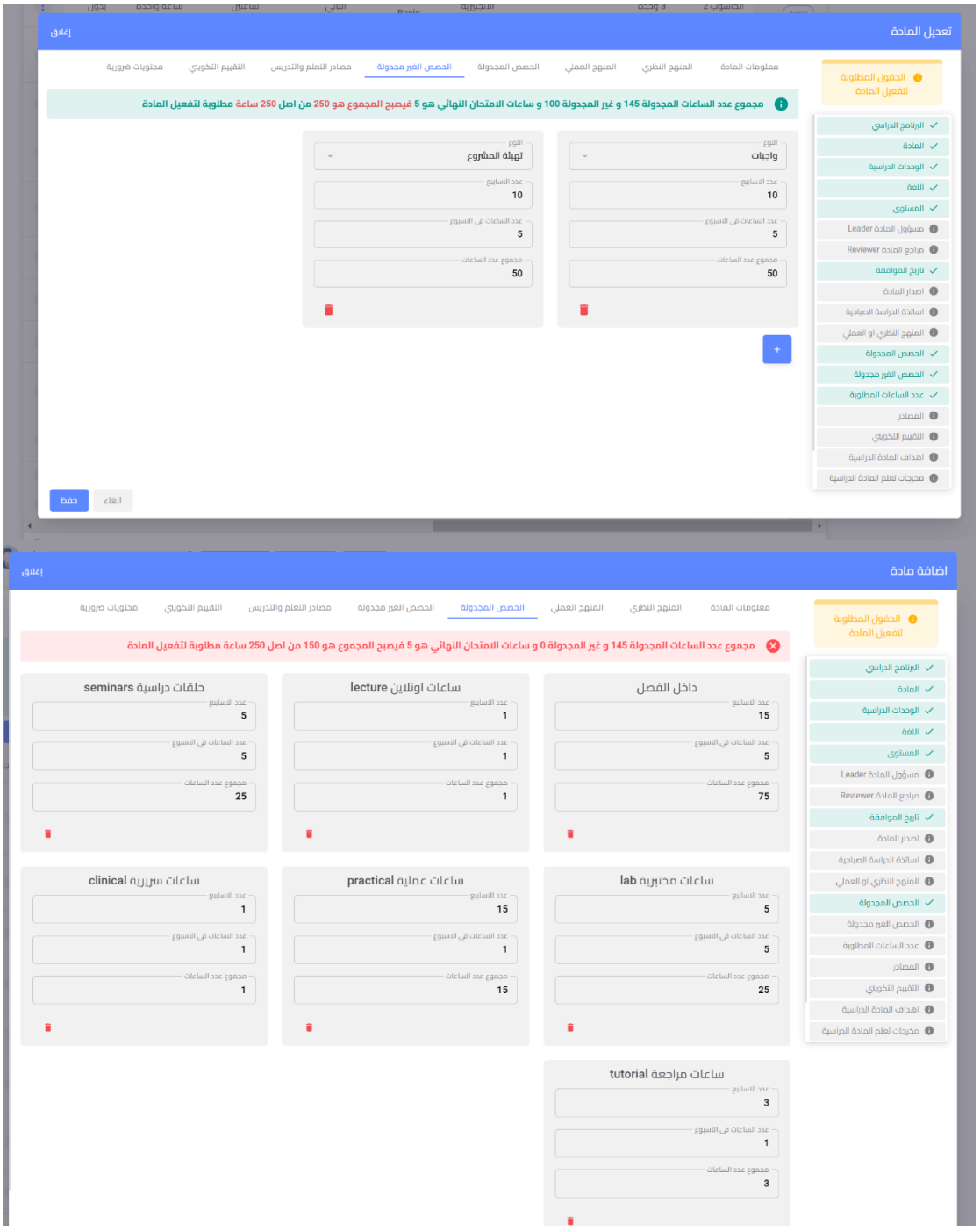
	Text	Available in the Library?
Required Texts	An Introduction to Urban Housing Design At home in the city, Graham Towers Housing As If People Mattered: Site Design Guidelines for t Planning of Medium-Density Family Housing, Clare Cooper Marcus; Wendy Sarkissian - New Trends in Urban Planning. Studies in Housing, Urban Design and Planning, Dan Soen	
Recommended Texts	Sustainable Urban Planning Tipping the Balance, Robert Riddell Sustainable Urban Housing in China: Principles and Case Studies for Low-Energy Design Urban Public Housing in Northern Nigeria: The Search for Indigeneity and Cultural Practices in Design	
Websites	-	

APPENDIX:

GRADING SCHEME مخطط الدرجات				
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تعديل المادة
إغلاق
معلومات المادة
المنهج النظري
المنهج العملي
الحصص المجدولة
الحصص الغير مجدولة
مصادر التعلم والتدريس
التقييم التكويني
محتويات ضرورية
مجموع عدد الساعات المجدولة 145 و غير المجدولة 100 و ساعات الامتحان النهائي هو 5 فيصبح المجموع هو 250 من اصل 250 ساعة مطلوبة لتفعيل المادة
الحقول المطلوبة لتفعيل المادة
البرنامج الدراسي
المادة
الوحدات الدراسية
اللغة
المستوى
مسؤول المادة Leader
مراجع المادة Reviewer
تاريخ الموافقة
اصدار المادة
اساتذة الدراسة الصباحية
المنهج النظري او العملي
الحصص المجدولة
الحصص الغير مجدولة
عدد الساعات المطلوبة
المصادر
التقييم التكويني
اهداف المادة الدراسية
مخرجات تعلم المادة الدراسية
النوع
واجبات
عدد الاسابيع
10
عدد الساعات في الاسبوع
5
مجموع عدد الساعات
50
النوع
تهيئة المشروع
عدد الاسابيع
10
عدد الساعات في الاسبوع
5
مجموع عدد الساعات
50
حفظ
الغاء

اضافة مادة
إغلاق
معلومات المادة
المنهج النظري
المنهج العملي
الحصص المجدولة
الحصص الغير مجدولة
مصادر التعلم والتدريس
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الحقول المطلوبة لتفعيل المادة
داخل الفصل
عدد الاسابيع 15
عدد الساعات في الاسبوع 5
مجموع عدد الساعات 75
ساعات اونلاين lecture
عدد الاسابيع 1
عدد الساعات في الاسبوع 1
مجموع عدد الساعات 1
حلقات دراسية seminars
عدد الاسابيع 5
عدد الساعات في الاسبوع 5
مجموع عدد الساعات 25
ساعات مختبرية lab
عدد الاسابيع 5
عدد الساعات في الاسبوع 5
مجموع عدد الساعات 25
ساعات عملية practical
عدد الاسابيع 15
عدد الساعات في الاسبوع 1
مجموع عدد الساعات 15
ساعات سريرية clinical
عدد الاسابيع 1
عدد الساعات في الاسبوع 1
مجموع عدد الساعات 1
ساعات مراجعة tutorial
عدد الاسابيع 3
عدد الساعات في الاسبوع 1
مجموع عدد الساعات 3

	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

Module descriptor form of landscape design

نموذج وصف مادة تصميم فضاءات خارجية

Module information معلومات المادة الدراسية			
Module title	**landscape design**	**Module Delivery**	
Module type	**Core**	***Theory** ***Lecture** **Lab** **Tutorial** ***Practical** ***Seminar**	
Module code	**ARCH4212**		
ECTS Credits	**5**		
SWL (hr/sem)	**125**		
Module Level	**4**	**Semester of Delivery**	**8**
Administering Department	**BSc-ARCH**	**College**	
Module Leader	**Dr.Nisreen Razaq Ibraheem Khamees**	**e-mail**	**gnisreen@coeng.uobaghdad.edu.iq**
Module Leader's Acad. Title	**Lecturer**	**Module Leader's Qualification**	**Ph.D.**
Module Tutor	**Dr.Inas Hasan Shukur**	**e-mail**	**enas.hasan@coeng.uobaghdad.edu.iq**
Peer Reviewer Name	**Dr.Huda Abdul Sahib Al Alwan**	**e-mail**	**hodaalwan@coeng.uobaghdad.edu.iq**
Review Committee Approval		**Version Number**	**1.0**

Relation With Other Modules العلاقة مع المواد الدراسية الاخرى			
Prerequisite module	**None**	**Semester**	
Co-requisites module	**None**	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الارشادية	
Module Aims **أهداف المادة الدراسية**	**1. Provide the students with potentials to face different landscape**

	design tasks, and acquire the interactive methodologies linking advanced sciences with local identity and environment. **2. Prepare the students to work with different scales of landscape design, ranging from single function to urban scale.** **3. Provide the students with knowledge in various aspects of specialization in architectural landscape design, ranging from small gardens to urban scale, which give the graduates more options in choosing their line of practice in future.** **4. Prepare the students for a wide variety of post -graduate studies, in theoretical aspects and in professional training programs in landscape design.** **5. This course deals with the basic concept of landscape design.** **6. This is the basic subject for designing all open spaces in all Iraqis environments from marshes in the south to the mountain in the north.**
Module Learning Outcomes **مخرجات التعلم للمادة الدراسية**	**1.Demonstrate competence and critical judgment in applying intellectual and technical skills necessary for site and landscape-scale design, in particular skills of problem-solving using site inventory/ analysis; spatial/temporal analysis; programming; synthesis; oral, written, and visual communication; construction implementation; and post-occupancy evaluation.** **2. Recognize the nature of landscape and its elements. Building the idea and dealing with it.** **3. Demonstrate critical thinking and the ability to explore ideas and synthesize information, both independently and in collaboration with interdisciplinary team members to identify and solve complicated landscape design and planning problems.** **4. Understand, analyze, and apply design and planning theories and principles to urban and rural landscapes to benefit human living conditions.** **5. List the Basic principles of designing landscape: the site and its components.** **6. Summarize what is meant by landscape design.** **7. Discuss the meaning of the Italian Renaissance Gardens, French and English Renaissance gardens, Japanese and Chinese Gardens.** **8. Describe The use of water in landscape design.** **9. Define Structural components in landscape.** **10. Identify the basic elements of and their applications in designing a**

	landscape project. **11. Identify Islamic gardens, and their main characters.** **12. Understand, apply, and evaluate the principles, theories, and recent research findings in the discipline of landscape architecture.** **13. Integrate humanistic, scientific, legal, political, economic, social, ecological, and technological dimensions in solving novel design and planning problems concerning the betterment of rural and urban natural and cultural landscapes.**
Indicative Contents **المحتويات الارشادية**	**Indicative content includes two sides, theoretical and applied-practical** **Theoretical Part :** **Introducing the basic principles in the design of external spaces, or what can be called the garden landscape, and its integration with the building and with the general urban landscape. The foundations and principles required in choosing the site and projecting the building within it are exposed. Addressing the problems of the site and investing its characteristics and components to serve the integrated landscape, and exposure to the requirements of natural and structural treatment complementary to the landscape. The topic includes a study of the development of gardens throughout history, with a focus on the temporal and spatial aspects related to the idea of designing and directing gardens** **applied-practical part:** **On the practical side, the student prepares detailed designs for one of the productive outdoor spaces. Among other requirements, the student presents the practical side by preparing detailed designs for one of the productive outdoor spaces. Among other requirements, the student submits a report on one of the relevant topics specified by the course professor. In advance, distinguished projects are elected for the purpose of presenting them to students in the form of a lecture or discussion with student participation.**
Learning and Teaching Strategies **استراتيجيات التعلم والتعليم**	
Strategies	**The main strategy that will be adopted in delivering Learning Landscape design helps the students to develop skills that will be necessary for their professional performance such as problem solving, structures of landscape design, and the understanding of processes, all**

	contextualized in a real-life environment. This module is to encourage students' participation in the exercises, while designing a real project. At the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of a real project involving some sampling activities that are Interesting to the students.

Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	64	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	4.26
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	61	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	4.06
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	125		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes.	1	5% (5)	7	Lo # 2, 3,4, 6,8,and 9.
	day sketches.	2	5% (5)	6	Lo # 1, 12, and 13.
	Project.	1	25% (25)	Continuous	Lo # 1, 12, and 13.
	Report	1	5% (5)	13	All
Summative assessment	Midterm Exam	1 hr	10% (10)	12	All
	Final Exam	2 hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج االسبوعي النظري	
	Material Covered
Week-1	An introductory lecture / explaining the nature of the lesson and its elements /

	sources and reports. Basic principles of design: the site and its components, building the idea and dealing with it.
Week-2	The use of water in the garden landscape.
Week-3	Plants in the garden landscape
Week-4	Plants and rocks....
Week-5	Structural components in the garden landscape.
Week-6	Day Sketch exam.
Week-7	Historic Gardens: Antiquity. Quiz no. (1)
Week-8	Italian Renaissance Gardens + Film Screening.
Week-9	French and English Renaissance gardens.
Week-10	Japanese and Chinese Gardens + Film Screening.
Week-11	Islamic gardens-1.
Week-12	Islamic gardens-2/ Midterm Exam
Week-13	Seminars for elected reports.
Week-14	Seminars for elected reports.
Week-15	Preparatory Week
Week-16	Final Exam

Delivery Plan (Weekly Architectural studio . Syllabus) المنهاج الاسبوعي للمرسم	
	Material Covered
Week-1	Design project, submission and site visit.
Week-2	Studies stage: preliminary presentation.
Week-3	Studies... final introduction, general criticism.
Week-4	Site analysis. General criticism.
Week-5	Introducing the initial design idea, general criticism.
Week-6	Exam No. (1) Day Sketch.
Week-7	Initial idea development
Week-8	1st prelim presentation.
Week-9	Criticism and development of ideas.
Week-10	Presentation of a second 2nd Prelim.

Week-11	**Individual development and criticism.**
Week-12	**Pre Final Presentation.**
Week-13	**Individual development and criticism.**
Week-14	**Individual development and criticism.**
Week-15	**Final Presentation.**

Learning and Teaching Resources **مصادر التعلم والتدريس**		
	Text	**Available in the Library?**
Required Texts	**Articles, texts from books, texts prepared by professors related to landscape design , no certain text book in required.**	**yes**
Recommended Texts	**Articles, texts from books, texts prepared by professors from the internet, no certain text book in required.**	**no**
Websites	**Available website related to landscape design** **Team work in field case study.**	

APPENDIX:

GRADING SCHEME **مخطط الدرجات**				
Group	**Grade**	**التقدير**	**Marks (%)**	**Definition**
Success Group (50 - 100)	**A** - Excellent	**امتياز**	90 - 100	Outstanding Performance
	B - Very Good	**جيد جدا**	80 - 89	Above average with some errors
	C - Good	**جيد**	70 - 79	Sound work with notable errors
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Fail Group (0 – 49)	**FX** – Fail	**مقبول بقرار**	(45-49)	More work required but credit awarded
	F – Fail	**راسب**	(0-44)	Considerable amount of work required
Note:				

NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Housing**			**Module Delivery**	
Module Type	**Core learning activity**			**x Theory** **x Lecture** **☐Lab** **x Tutorial** **☐Practical** **☐Seminar**	
Module Code	**ARCH4213**				
ECTS Credits	**5**				
SWL (hr/sem)	**125**				
Module Level	4		**Semester of Delivery**	8	
Administering Department	Architectural		**College**	Engineering	
Module Leader	Dr. Ahmed Natiq		**e-mail**	a.alshammaa@coeng.uobaghdad.edu.iq	
Module Leader's Acad. Title	Teacher		**Module Leader's Qualification**	Ph.D.	
Module Tutor			**e-mail**		
Peer Reviewer Name	None		**e-mail**	none	
Scientific Committee Approval Date	1-9-2024		**Version Number**	1.0	

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

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	Studying a housing course in an Architectural department equips students with the knowledge and skills to design sustainable, functional, and culturally relevant housing solutions. It emphasizes the importance of addressing social, environmental, and economic factors, while fostering an understanding of urban and rural development, sustainability, and technical design principles. Students learn to create spaces that meet diverse community needs and contribute to solving global housing challenges.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	The outcomes of a housing course in architecture include the development of design skills for creating sustainable, functional housing, along with technical expertise in construction, building codes, and environmental systems. Students gain problem-solving abilities for addressing housing challenges, cultural and social awareness for context-sensitive designs, and the capacity to collaborate with other professionals. They also acquire research skills to analyze housing needs and become professionally prepared to tackle real-world housing issues.
Indicative Contents المحتويات الإرشادية	Hours of of students work included many of assaments and exams100

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The subject will be presented to students through a specified series of lectures and tutorials assisted by notes. It will be supported by utilizing of computer assisted packages. The learning element will be evaluated by a set of assignments on computer element and tests to ensure outcomes are achieved.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	63	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	none
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	37	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	none
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**100**		

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	5	5% (5)	3, 5, 7, 10, 12	LO# 1,2,3, 4
	Assignments	6	10% (10)	2,4, 6, 8, 11, 14	LO# 4, 5 , 8 ,9,11,13
	Projects / Lab.				
	Report				
Summative assessment	Midterm Exam	2hr	40% (40)	8	1-9
	Final Exam	3hr	60% (60)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Defining the living place, housing, the concept of single family and multi-families housing
Week 2	Defining the house and the abstract concept of house
Week 3	The development of horizontal and vertical housing and with models of the local environment horizontal/vertical
Week 4	The vertical and horizontal residential (formal) patterns
Week 5	Population density – definitions, connections, effects
Week 6	The family in housing planning
Week 7	The territoriality concepts in residence
Week 8	Exam
Week 9	Privacy and the concept of protected space (the special and general in single family and multi-families housing
Week 10	The philosophical concept of the house (directions, connections, extensions and their relation with the urban space in the house)
Week 11	Place in the house, the entrance, boarders and their relation with privacy and the protected space and the special and general progression, identity and character
Week 12	The residential districts, their graduation and divisions

Week 13	The housing standard and some high-density housing limitations in the concepts of the vertical circulation and emergency evacuation and fire limitations and some housing specialties Lecturer & in dry hot
Week 14	The housing standard and some high-density housing limitations in the concepts of the vertical circulation and emergency evacuation and fire limitations and some housing specialties in dry hot
Week 15	Seminar
Week 16	Exam

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	- Morris (Society , Family and Housing) _ Polservice (Housing Standards and Codes of Practice)	Yes
Recommended Texts		Yes
Websites		

Grading Scheme
مخطط الدرجات

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

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	HISTORY OF ARCH. ISLAMIC ARCH. 5			**Module Delivery**	
Module Type	CORE			☒ **Theory** ☒ **Lecture** ☐ **Lab** ☐ **Tutorial** ☒ **Practical** ☒ **Seminar**	
Module Code	ARCH4205				
ECTS Credits	4				
SWL (hr/sem)	100				
Module Level	4		**Semester of Delivery**	8	
Administering Department	ARCH		**College**	College of Engineering	
Module Leader	DR. ZAINAB KHALID AHMED		**e-mail**	zainab.khalid@coeng.uobaghdad.edu.iq	
Module Leader's Acad. Title	/		**Module Leader's Qualification**	/	
Module Tutor	/		**e-mail**	None	
Peer Reviewer Name	Dr. Nadia Abdul Majeed Al Salam		**e-mail**	dr.nadia@iurp.uobaghdad.edu.iq	
Review Committee Approval	[redacted]		**Version Number**	1.0	

Relation with Other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	History 4	**Semester**	2
Co-requisites module			
Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية			
Module Aims أهداف المادة الدراسية	• Identifying the Prophet's Islamic cultural legacy throughout the Islamic world, from China to Spain over centuries, from the mission of the Holy Prophet until modern era. • Studying the concept of Islamic city development, it's characteristics, general characteristics and the technological components of the city and it's most important characteristics with connection to the natural and cultural environment, and the impact of humans and religion on it. • Introducing the aspects of this architecture, embodied in various architectural models and components, starting essentially from the city, reaching the finest details of Islamic art, ornament and decoration. • studying the concept of Islamic style such as the Rashidun, Umayyad, Abbasid, Tulunid, Fatimid, Ayyubid, Mamluk and Ottoman and comparisons between them. • Learn the distinctive features of Arab-Islamic architecture and develop the inherited architectural vocabulary that emphasizes the importance of cultural communication in Islamic architecture to inspiration and employ it in contemporary architecture, especially student projects.		
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. Promoting the student's cognitive aspect on the Islamic architecture 2. Understanding how to establish Islamic cities 3. Building imagination to support the conceptual framework of the idea inspired by Islamic civilization. 4. Learn the develop ideas inspired by Islamic architecture into a design project that can be implemented with minimum costs and efforts. 5. The possibility of developing designs inspired by Islamic architecture. 6. Enabling the student to learn about many aspects of Islamic architecture, embodied in distinct and diverse architectural models, starting from the city passing through individual buildings, to the finest details of Islamic art and decoration. 7. Building the ability of imagination to do homework and assignments. 8. Learn to manage work with students with a team to integrate their efforts		

	with others.
Indicative Contents المحتويات الإرشادية	Islamic architecture is considered one of the theoretical subjects, that studies the Islamic urban heritage during different eras, which opens the way to learn about the Islamic architecture components and its features with the similarities and differences. in addition, analyzing the urban achievements witches remain till now through a historical descriptive perspective with studied the intellectual backgrounds behind the emergence and development Islamic architecture. Lectures enhance the cognitive aspect. Discussions expand creative thinking and the possibility of borrowing from Islamic vocabulary and thought in our current cities.
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	1. Supporting theoretical lectures. 2. Interactive lessons (Questions and discussions inside the classroom). 3. Study groups. 4. Reports and presentations. 5. Tests and quizzes. 6. Educational posters (models).

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	3
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	37	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	1
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	100		

Module Evaluation تقييم المادة الدراسية					
Assessment		**Time/Number**	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment **63**	**REPORTS & PRESENTATIONS ASSAINMNETS**	1	5%	1-14	6-8
	TESTS &	5- more	5%	Continuous	2,4

	QUIZZES.				
	MID EXAM	1	15%	MID COURSE	1-8
	INTERACTIVE LESSONS PARTICIPATION (QUESTIONS AND DISCUSSIONS)	5-more	5%	1-6,8,10-14	1-5
	FINAL EXAM	1	60%	End COURSE	1-8
	LECTURES HOMEWORK	1-15		2-15	1-8
	REPORTS HOMEWORK.	1-2	5%	2-14	6-8
	EDUCATIONAL POSTERS (MODELS) PREPARATION.	1	5%	10	6-8
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي

	Material Covered
Week 1	- Islamic civilization, the impact of the natural and cultural environment and shaping architecture. - definition Islamic architecture and its characteristics. - Islamic urbanism. - Necessary conditions for starting an Islamic city. - Motivational test.
Week 2	- The role of Islamic planning. - Islamic cities classification. - Examples of Islamic cities. - Present and discuss student reports. - Quiz.
Week 3	- Islamic Architectural components-traditional houses. - Islamic dwelling types (Yemeni style, Gulf style etc.). - Islamic dwelling components (Shanashul, talar etc.)

	- Quiz.
Week 4	- Islamic Architectural components-Khans. - Islamic Architectural components-schools.
Week 5	- Architectural components-city bathes (Hammams). - Architectural components–Rribats and castles. - Quiz.
Week 6	- Present and discuss student reports. - Islamic Architectural components–shops (Souq).
Week 7	- Mid exam.
Week 8	- Islamic Architectural components–water fountain (Sabeel). - Islamic Architectural components-Al-Takaya.
Week 9	- A scientific visit (Iraqi Museum or Iraqi Islamic archaeological sites).
Week 10	- Architectural components- hospitals (Bimaristanat). - Architectural components- palaces. - Quiz.
Week 11	- Architectural - mosques and the first mosques, Islamic styles - the Prophet's and Rashidun era. - The architectural Components and design elements of mosques (domes, minarets, etc.)
Week 12	- The Umayyad era and style. - The Abbasid and Seljuk era and style.
Week 13	- Andalusian era and style. - The Tulunid, Fatimid and Mamluk era and style.
Week 14	- Present and discuss student reports. - The Ayyubid and Mongol era.
Week 15	- The Ottoman era and style. - The sources of Islamic art. - Architectural models inspired by Islamic architecture in the twenty-first century. - Present and discuss student models and posters. - Quiz.
End COURSE	Final exam

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	- Arab architecture in the Islamic era in Iraq - Dr. Ghazi Rajab	
Recommended Texts	- Arabic architecture Aestheticism, unity and diversity - Dr. Afif Bahnasi - Research and studies in Islamic architecture (first	

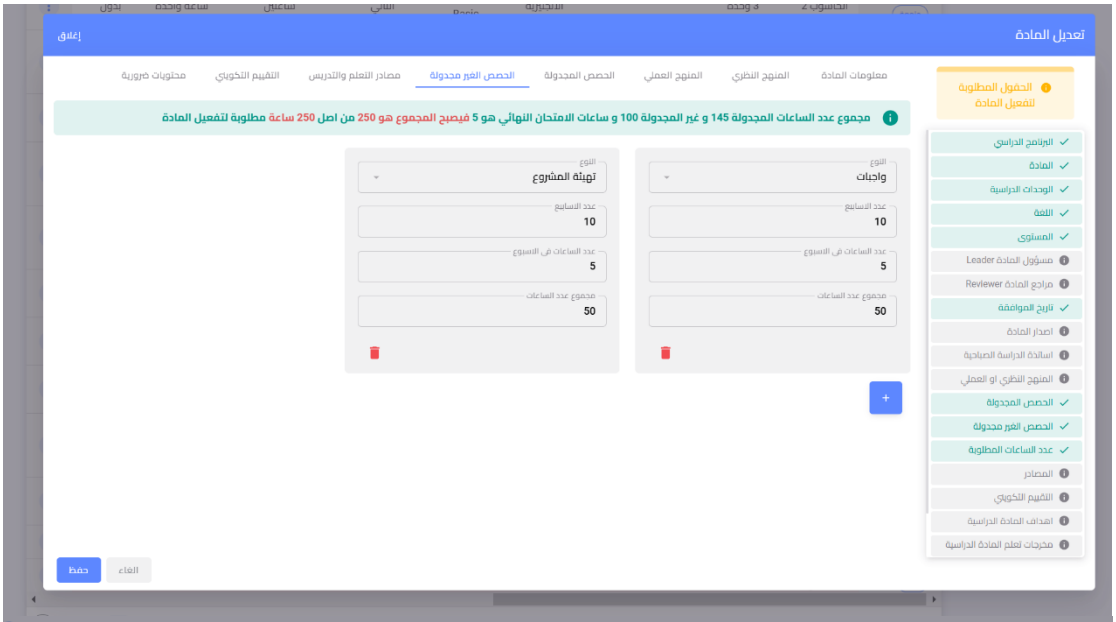
	part) - Dr. Muhammad Hamza Ismail - The Arab Islamic city - The impact of legislation on shaping the built environment - Dr. Saleh Al-Hathlool - Architecture of land in Islam M - D. Jamil Abdul Qadir Akbar	
Websites	- Explanatory topics and videos related to Islamic architecture.	

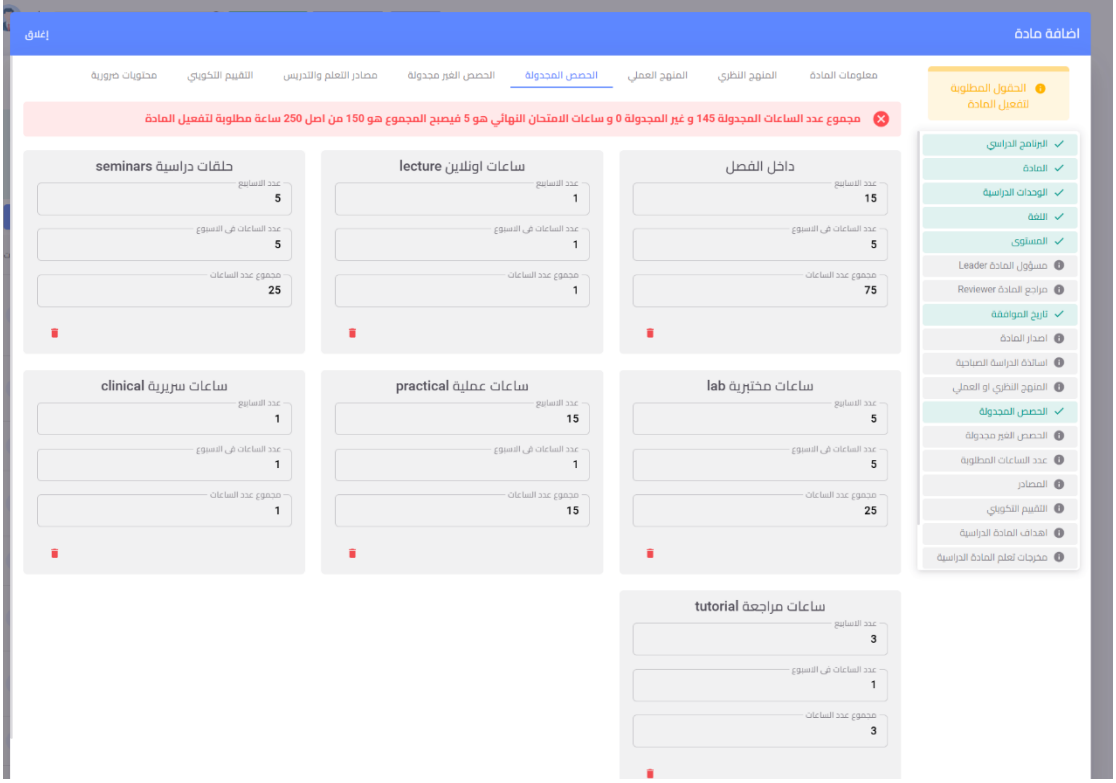
APPENDIX:

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

Note:

NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.


تعديل المادة
إغلاق
معلومات المادة
المنهج النظري
المنهج العملي
الحصص المجدولة
الحصص الغير مجدولة
مصادر التعلم والتدريس
التقييم التكويني
محتويات ضرورية
الحقول المطلوبة لتفعيل المادة
مجموع عدد الساعات المجدولة 145 و غير المجدولة 100 و ساعات الامتحان النهائي هو 5 فيصبح المجموع هو 250 من اصل 250 ساعة مطلوبة لتفعيل المادة
النوع
واجبات
عدد الاسابيع
10
عدد الساعات في الاسبوع
5
مجموع عدد الساعات
50
النوع
تهيئة المشروع
عدد الاسابيع
10
عدد الساعات في الاسبوع
5
مجموع عدد الساعات
50
البرنامج الدراسي
المادة
الوحدات الدراسية
اللغة
المستوى
مسؤول المادة Leader
مراجع المادة Reviewer
تاريخ الموافقة
اصدار المادة
اساتذة الدراسة الصباحية
المنهج النظري او العملي
الحصص المجدولة
الحصص الغير مجدولة
عدد الساعات المطلوبة
المصادر
التقييم التكويني
اهداف المادة الدراسية
مخرجات تعلم المادة الدراسية
حفظ
الغاء


اضافة مادة
إغلاق
معلومات المادة
المنهج النظري
المنهج العملي
الحصص المجدولة
الحصص الغير مجدولة
مصادر التعلم والتدريس
التقييم التكويني
محتويات ضرورية
الحقول المطلوبة لتفعيل المادة
مجموع عدد الساعات المجدولة 145 و غير المجدولة 0 و ساعات الامتحان النهائي هو 5 فيصبح المجموع هو 150 من اصل 250 ساعة مطلوبة لتفعيل المادة
داخل الفصل
عدد الاسابيع
15
عدد الساعات في الاسبوع
5
مجموع عدد الساعات
75
ساعات اونلاين lecture
عدد الاسابيع
1
عدد الساعات في الاسبوع
1
مجموع عدد الساعات
1
حلقات دراسية seminars
عدد الاسابيع
5
عدد الساعات في الاسبوع
5
مجموع عدد الساعات
25
ساعات مختبرية lab
عدد الاسابيع
5
عدد الساعات في الاسبوع
5
مجموع عدد الساعات
25
ساعات عملية practical
عدد الاسابيع
15
عدد الساعات في الاسبوع
1
مجموع عدد الساعات
15
ساعات سريرية clinical
عدد الاسابيع
1
عدد الساعات في الاسبوع
1
مجموع عدد الساعات
1
ساعات مراجعة tutorial
عدد الاسابيع
3
عدد الساعات في الاسبوع
1
مجموع عدد الساعات
3
البرنامج الدراسي
المادة
الوحدات الدراسية
اللغة
المستوى
مسؤول المادة Leader
مراجع المادة Reviewer
تاريخ الموافقة
اصدار المادة
اساتذة الدراسة الصباحية
المنهج النظري او العملي
الحصص المجدولة
الحصص الغير مجدولة
عدد الساعات المطلوبة
المصادر
التقييم التكويني
اهداف المادة الدراسية
مخرجات تعلم المادة الدراسية

	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	PHYSICS /ACOUSTICS			**Module Delivery**	
Module Type	CORE			☒ **Theory** **Lecture** **Lab** **Tutorial** **Practical** **Seminar**	
Module Code	ARCH4214				
ECTS Credits	4				
SWL (hr/sem)	75				
Module Level	4		**Semester of Delivery**	8	
Administering Department	Arch		**College**	Engineering	
Module Leader	\		**e-mail**	\	
Module Leader's Acad. Title			**Module Leader's Qualification**		
Module Tutor	None		**e-mail**	None	
Peer Reviewer Name			**e-mail**	\	
Review Committee Approval			**Version Number**	1.0	

Relation With Other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	The students learn about sound distribution in halls, ways of preventing echo, types of acoustic designs according to types of halls: music halls multifunction halls , theatres , opera and kinds and specifications of materials used for acoustic demands.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. Identify the principles of acoustic behavior in a closed spaces 2. The nature of the acoustic phenomenon in a closed space through the concepts of acoustic reflection, absorption, propagation and penetration, as well as the concepts of auditory response to it. 3. The most important acoustic principles and standards adopted in evaluating verbal and musical auditory spaces, 4. The most important acoustic defects and their treatment, and methods of designing acoustic halls . 5. Studying noise and its types, and focusing on methods of reducing it in public and residential buildings.
Indicative Contents المحتويات الإرشادية	**Indicative content includes the following.** • General concepts of the acoustic phenomenon. • Design standards for auditory space. • Study of noise and ways to reduce it.
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. It will be achieved through academic lectures and intellectual discussions with students, submitting reports and assignments, and field visits.

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)	37	**Unstructured SWL (h/w)**	2.4

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

Module Evaluation
تقييم المادة الدراسية

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

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي النظري

	Material Covered
Week 1	Introduction - The basic concepts which clarify the specifications of the acoustic phenomenon (frequency, wave length, sound intensity, sound pressure).
Week 2	Levels of sound intensity and sound pressure, the sound power level -Give the student a first quiz.
Week 3	- The acoustic phenomena which clarify sound behavior in the close space (absorption, reflection, penetrating, diffusion, diffraction).
Week 4	How to employ reflection in designing the reflective ceiling and absorption in the treatment of the acoustic defect.
Week 5	- The reverberation standard and identifying this standard and its calculation methods and its importance in design and acoustic evaluation.
Week 6	- Exercises about calculating the reverberation time and its actual and ideal value in lecture and musical halls.
Week 7	Examination
Week 8	- Identifying the sound defects (echo, flutter echo, focalization, resonance, coloring, noise, blurring…)
Week 9	- The acoustic defects and the methods of their sensual and mathematical diagnosis and methods of treatment. -Give the student a second quiz.
Week 10	- The basic classification of auditory halls and their designing standards and the engineering limitations of their specifications (size, shape, lining materials, …..

	dimensions) examples.
Week 11	- The speech halls and their specifications (size, shape, lining materials, rates dimensions) examples.
Week 12	- The musical halls and their specifications (size, shape, lining materials, rates dimensions) examples.
Week 13	- Identifying noise, its types, sources, methods of transmission.
Week 14	- Treating noise in the residential complexes at the planning and designing levels and details.
Week 15	**Preparatory Week**
Week 16	**Final Exam**

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	Architectural Acoustics/ Marshall Long Book , Second Edition, 2014	No
Recommended Texts	Advances in Architectural Acoustics / Nikolaos M. Papadakis, Massimo Garai, AND Georgios E. Stavroulakis Book, June 2022	No
Websites	The Journal of the Acoustical Society of America	

APPENDIX:

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

NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.



ملاحظة: هذا النموذج تم وضعه وتقديمه من قبل مديرية ضمان الجودة في وزارة التعليم العالي والبحث العلمي

	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information
معلومات المادة الدراسية

Module Title	SURVEYING	**Module Delivery**	
Module Type	S	☐ **Theory** ☒ **Lecture** ☐ **Lab** ☒ **Tutorial** ☒ **Practical** ☒ **Seminar**	
Module Code	ARCH4228		
ECTS Credits	2		
SWL (hr/sem)	50		
Module Level	4	**Semester of Delivery**	8
Administering Department	Arch	**College**	CEC
Module Leader	PROFESSOR DR. MAYTHM AL-BAKRI Lecturer Luma Khalid Jasim Lecturer Raghad Hadi Hasan	**e-mail**	m.albakri@coeng.uobaghdad.edu.iq luma.k@coeng.uobaghdad.edu.iq raghad.h@coeng.uobaghdad.edu.iq
Module Leader's Acad. Title	Professor & Lecturer	**Module Leader's Qualification**	/
Module Tutor	Lecturer Luma Khalid Jasim Lecturer Raghad Hadi Hasan	**e-mail**	luma.k@coeng.uobaghdad.edu.iq raghad.h@coeng.uobaghdad.edu.iq
Peer Reviewer Name	/	**e-mail**	/
Review Committee Approval	1-9-2024	**Version Number**	1.0

Relation with Other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module		**Semester**	
Co-requisites module			
Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية			
Module Aims أهداف المادة الدراسية	To provide architecture students with the fundamental knowledge and practical skills of surveying techniques used in construction and site analysis. The course introduces students to measurement methods, field equipment, and data interpretation necessary for architectural design and planning.		
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	By the end of this module, students will be able to: 1. Understand and explain the basic principles of surveying and measurement. 2. Use surveying instruments such as total stations, levels, and tapes. 3. Apply surveying techniques in real-world architectural site settings. 4. Interpret and record field data accurately and prepare basic site plans. 5. Collaborate effectively in groups during fieldwork exercises.		
Indicative Contents المحتويات الإرشادية	• Introduction to surveying and its relevance to architecture • Measurement. • Leveling: types and procedures. • Theodolite and total station use. • Angle and distance measurement. • Topographic survey basics. • Contour mapping and site analysis • Fieldwork and data recording		
Learning and Teaching Strategies استراتيجيات التعلم والتعليم			
Strategies	The module combines theoretical understanding with hands-on practice. Teaching strategies include interactive tutorials, supervised fieldwork, practical demonstrations, and collaborative group activities. Emphasis is placed on experiential learning through real-world surveying tasks on-site. Continuous feedback is provided to support student progress and skill development		

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

Module Evaluation تقييم المادة الدراسية					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Lecture**	13		weekly	
	Practical exam	/		/	
	Seminar	1	25%	14	
	Mid exam	1	10%	7-8	
	Assignments	10		weekly	
Summative assessment	**Daily exam**	5	50%	Every two weeks	
	Tuter				
	Extracurricular activity				
	Reports	1	15%	13	
	Daily lesson preparation				
	Labs				
	clinical				
	Online lecture				
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي	
	Material Covered
Week 1	- Introduction/ Type of surveying
Week 2	- scales
Week 3	- Relationship between points
Week 4	- Surveying Instrument
Week 5	- Angles & Directions
Week 6	- Bearing & Azimuth
Week 7	- Mid Exam
Week 8	- Type of angles
Week 9	- Relationship between angle & direction
Week 10	- Compute coordinates
Week 11	- Forward computations/ Inverse computations
Week 12	- Leveling/ Method of leveling (H.I.) method/ Method of leveling (R.&F.) method
Week 13	- Profile & cross section
Week 14	- Seminar
Week 15	- Area of cross section

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	- Bannister, A., Raymond, S., & Baker, R. (1998). Surveying (7th Edition). Pearson Education. - Uren, J., & Price, W. F. (2010). Surveying for Engineers (5th Edition). Palgrave Macmillan. - Chandra, A. M. (2015). Higher Surveying. New Age International Publishers	

Recommended Texts	- Ghilani, C. D., & Wolf, P. R. (2017). Elementary Surveying: An Introduction to Geomatics (15th Edition). Pearson. - Schofield, W., & Breach, M. (2007). Engineering Surveying (6th Edition). Butterworth-Heinemann. - Duggal, S. K. (2013). Surveying Volume 1 and 2. McGraw-Hill Education.	
Websites	- https://www.geomatics.org.uk (https://www.geomatics.org.uk/) – The Chartered Institution of Civil Engineering Surveyors (CICES) - https://www.topconpositioning.com (https://www.topconpositioning.com/) – Surveying instruments and tutorials - https://www.learncivilengineering.com (https://www.learncivilengineering.com/) – Civil and surveying basics for students	

APPENDIX:

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

NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM

نموذج وصف المادة الدراسية

Module Information **معلومات المادة الدراسية**				
Module Title	**Architectural Design 9**		**Module Delivery**	
Module Type	**CORE**		▪ Theory ▪ Lecture ▪ Tutorial ▪ Practical ▪ Seminar ▪ Visits to the project site ▪ Day sketches	
Module Code	**ARCH5101**			
ECTS Credits	**12**			
SWL (hr/sem)	**300**			
Module Level	5	**Semester of Delivery**	9	
Administering Department	Arch	**College**	CEC	
Module Leader	Dr. Ghada M.Ismael Kamoona Dr. Rand H.M. Agha	**e-mail**	g.kamoona@coeng.uobaghdad.edu.iq rand.h.m.agha@coeng.uobaghdad.edu.iq	
Module Leader's Acad. Title		**Module Leader's Qualification**		
Module Tutor	None	**e-mail**	None	
Peer Reviewer Name	Dr. Ghada Al-slik	**e-mail**	ghada.alslik@coeng.uobag.edu.iq	
Review Committee Approval	**1-9-2024**	**Version Number**	1.0	

Relation With Other Modules
العلاقة مع المواد الدراسية الأخرى

Prerequisite module	ARCH Design 8	**Semester**	Level 4, Semester 8
Co-requisites module		**Semester**	

Module Aims, Learning Outcomes and Indicative Contents
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Aims **أهداف المادة الدرلسية**	This subject is considered the student's final stage in the design practice. It concentrates on the concept of urban development through the direct field documentation of traditional areas or central areas in the Iraqi cites. By doing so, developmental alternatives are set forth as a basic in the concepts of conservation, development and building material and through an organizing method which is dependent on the rules and legislations of Baghdad municipality and the municipalities of the governorates. The aim is to prepare the student to enter the world of architecture intellectually, conceptually and practically as a basic working rule. Moreover, the subject aims at identifying the student with the concept of architecture by identifying the basic principles of design, composition, three dimensions, the human scale, the surroundings of the urban environment, etc., and developing the student's expressive language of those items. The subject, also, concentrates on developing the student's artistic and creative sense, the style of analytic and synthetic thinking, in addition to developing his awareness and sensation of the natural and built environment and to respect this environment starting from realizing and appreciating the classical urban environment and studying the presentational, plastic and compositional relationships of its elements and components.
Module Learning Outcomes **مخرجات التعلم للمادة الدراسية**	1. Analyze and archive buildings of most important area in city center. 2. Be aware of many kinds urban design problems and many types of buildings. 3. Relation between architectural and urban design. 4. Solving urban design problems. 5. Learn how to produce complete huge projects. 6. Learning how development their concepts into active design project that can be implemented in the reality. 7. Learn more about urban spaces details. 8. The student will be able to realize the significant of urban spaces and their types and its relation with human scale and the circulation on the urban level.
Indicative Contents **المحتويات الإرشا\دية**	1. Lectures. 2. Tutorials. 3. In-Class Questions and Discussions. 4. Connection between Theory and Application. 5. Working drawing projects. 6. In- and Out-Class oral conservations. 7. Site visits and documentation. 8. Models.

Learning and Teaching Strategies إستراتيجيات التعلم والتعليم	
Strategies	The main strategy followed in teaching this unit is to encourage students' participation in dealing with mass and space at the urban level as a reality through field visits, theoretical lectures, intellectual discussions, and assignments, as well as expanding their critical and analytical abilities in diagnosing urban problems and finding appropriate solutions for them by presenting design proposals at the urban level for the site under study in the form of presenting their design work and drawings using papers and models.

Student Workload (SWL) الحِمل الدراسي للطالب			
Structured SWL (h/sem) **الحِمل الدراسي المنتظم للطالب خلال الفصل**	185	**Structured SWL (h/w)** **الحِمل الدراسي المنتظم للطالب إسبوعياً**	12.3
Unstructured SWL (h/sem) **الحِمل الدراسي غير المنتظم للطالب خلال الفصل**	115	**Unstructured SWL (h/w)** **الحِمل الدراسي غير المنتظم للطالب إسبوعياً**	7.6
Total SWL (h/sem) **الحِمل الدراسي الكُلي للطالب خلال الفصل**	300		

Module Evaluation
تقييم المادة الدراسية

		Time/ Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment (40%)	**Report:** Providing plans, a study and complete analysis of the site, with a diagnosis of its urban problems (Group work). Final of the field study of the real condition of the urban site: Model, site, plans, sections, elevations (Group work).	3-4	4%	1, 2 and 3	1 and 2
	Assignment: (Homework of projects) Submitting proposals for urban site development (under study): Prelim 1 and Prelim 2 (Group work).	5-7	16%	3, 4, 5, 6 and 8	3, 4, 5 and 6
	Lab: (Class work of projects)	5-7	5%	4,5, 6, 7, 8,9 and 11	3, 4, 5 and 6
	Day sketches	2	15%	9, 11	All
Summative as Mid exam (10%)	**Mid exam:** Exercise of developing urban space (Day sketch)	1	10%	7	All
Summative assessment as a final exam (50%)	**Project:** Pre-final presentation (Group work).	1	8%	10	All
	Project: Final presentation (Group work).	1	12%	12	All
	Project: Pre-final presentation (Individual work).	1	10%	13	All
	Project: Final presentation (Individual work).	1	15%	14	All
	Final Exam	1	5%	15	All
Total assessment		**100% (100 Marks)**			

Delivery Plan (Weekly Syllabus) المنهاج الإسبوعي	
Week 1	The field study of the real condition through the field measurements and photographing and freehand drawing and reviewing the valid rules and limitations (Distribute students into groups - Group work).
Week 2	Providing plans, a study and a complete analysis of the site (urban site) as a reality, with a diagnosis of its urban problems (Group work).
Week 3	Final of the field study of the real condition of the urban site (Group work). Presenting a suggested basic plan of the developmental alternative that supports the well established intellectual base for the urban site (Under studied), (Group work).
Week 4	Presenting a suggested basic plan of the developmental alternative that supports the well established intellectual base for the urban site (Under studied), (Group work).
Week 5	Developing the basic plan of the alternative that supports the well established intellectual base for the urban site (Under studied), (Group work).
Week 6	Prelim 1 of the urban development project: site, plans, sections, elevations (Group work).
Week 7	**Mid exam:** Exercise of developing urban space (Day sketch)
Week 8	Prelim 2 of the urban development project: site, plans, sections, elevations (Group work).
Week 9	**Day sketch**
Week 10	Pre-final presentation of the suggested alternative (a 3d mass model with a suitable measure and basic plans of all the project which clarify the general application and the distribution of the adopted functions), (Group work).
Week 11	**Day sketch**
Week 12	Final presentation of the suggested alternative (a 3d model with a suitable measure and basic plans of all the project which clarify the general application and the distribution of the adopted functions), (Group work).
Week 13	Pre-final of the architectural details and important parts in the site which are divided on the student individually (Individual work).
Week 14	Final of the architectural details and important parts in the site which are divided on the student individually (Individual work).
Week 15	**Final Exam**

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	• Any books or magazines related to urban design. • Site visits.	
Recommended Texts	• References that dealt with the analysis and study of the urban site (under study). • Scientific Videos.	
Websites	https://www.archdaily.com/search/projects/categories/urban-design https://urbandesignlab.in/what-is-urban-design/?srsltid=AfmBOoq1uiT8hA3j42t8w6RHZqznC1Wf4XWp366kqHO_qCO-8TcrARUA https://assets.publishing.service.gov.uk/media/5a796fbde5274a2acd18cd0f/158490.pdf	

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

Note:

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	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM

نموذج وصف المادة الدراسية

Module Information **معلومات المادة الدراسية**				
Module Title	**Graduation p. seminar 1**		**Module Delivery**	
Module Type	**CORE**		▪ Theory ▪ Lecture ▪ Tutorial ▪ Practical ▪ Seminar ▪ Visits to the project site ▪ Day sketches	
Module Code	**ARCH5115**			
ECTS Credits	**3**			
SWL (hr/sem)	**75**			
Module Level	5		**Semester of Delivery**	9
Administering Department	Arch		**College**	CEC
Module Leader	Dr. Ghada M.Ismael Kamoona Dr. Rand H.M. Agha		**e-mail**	g.kamoona@coeng.uobaghdad.edu.iq rand.h.m.agha@coeng.uobaghdad.edu.iq
Module Leader's Acad. Title			**Module Leader's Qualification**	
Module Tutor	None		**e-mail**	None
Peer Reviewer Name	Dr. Ghada Al-slik		**e-mail**	ghada.alslik@coeng.uobag.edu.iq
Review Committee Approval	**1-9-2024**		**Version Number**	1.0

Relation With Other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module		**Semester**	
Co-requisites module		**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims **أهداف المادة الدرلسية**	The final project is considered the final stage of the knowledge, which has been given to the student during his years of study, represented by intellectual maturity, the basics of the design work and its belonging to the place and its relation to the values and deep roots of his country, nation, society, tradition and culture and letting the student to express these values through his intellectual and design presentations of the selected project which we emphasize to be one of the real projects proposed by different state offices and which have clear dependable curriculum, or proposed by professors in order to solve a particular problem. The work of the final project starts by collecting information in addition to the information of the similar examples, searching for the intellectual and designing presentation of similar projects in order to be a database for the student to discuss during the first academic year with the subject professors and with the participation of all the students. The work of the final project starts by collecting information in addition to the information of the similar examples, searching for the intellectual and designing presentation of similar projects in order to be a database for the student to discuss during the first academic year with the subject professors and with the participation of all the students, presenting a detailed report of these works at the end of the first part of the fifth academic year and, thus, forming a base of all the designing planning Intellectual presentations of the project that will be carried out during the second academic term.
Module Learning Outcomes **مخرجات التعلم للمادة الدراسية**	At the end of the first semester, the student will be able to: 1. Analyze and archive individual project of specific function. 2. 2. Analyze the project site accurately and comprehensively 3. Be aware of many kinds design process and how to solve different related problems connected to building. 4. 3. Relation between architectural and structural form. 5. 4. Learn how to produce complete single complete project. 6. 5. Learn more about architectural details.
Indicative Contents **المحتويات الإرشا\دية**	1. Lectures. 2. Tutorials. 3. In-Class Questions and Discussions. 4. Connection between Theory and Application. 5. Working drawing projects (Day sketches). 6. In- and Out-Class oral conservations. 7. Site visits and documentation.

Learning and Teaching Strategies إستراتيجيات التعلم والتعليم	
Strategies	The main strategy followed in teaching this unit is to encourage students to deal with various big projects related to the local reality (realistic projects required by local departments and institutions in terms of function and location) through field visits, theoretical lectures, intellectual discussions, and assignments, in addition to expanding their critical and analytical abilities in diagnosing all aspects of the project (in terms of location, function, project size, functional program, structural construction, and examples similar to the project that applied in real) by presenting a complete study of the project.

Student Workload (SWL) الحِمل الدراسي للطالب			
Structured SWL (h/sem) **الحِمل الدراسي المنتظم للطالب خلال الفصل**	48	**Structured SWL (h/w)** **الحِمل الدراسي المنتظم للطالب إسبوعياً**	3.2
Unstructured SWL (h/sem) **الحِمل الدراسي غير المنتظم للطالب خلال الفصل**	27	**Unstructured SWL (h/w)** **الحِمل الدراسي غير المنتظم للطالب إسبوعياً**	1.8
Total SWL (h/sem) **الحِمل الدراسي الكُلي للطالب خلال الفصل**	75		

Module Evaluation
تقييم المادة الدراسية

		Time/ Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment (40%)	**Assignment:** (Homework of Project study) Presenting comprehensive and detailed analytical study of the project site.	1-2	5%	2 and 3	1 and 2
	Presenting comprehensive and detailed analytical study of the project function	3-4	5%	4 and 5	3
	Presenting examples of existing building projects similar to the graduation project.	1	3%	7	4
	Pre-final seminars of the graduated project.	1	12%	9	All
	Day sketches	2	15%	6, 10	All
Summative as Mid exam (10%)	Day sketch	1	10%	8	All
Summative assessment as a final exam (50%)	**Seminars:** Final Seminars of the graduated project (Final discussions of the graduation project study).	5	35%	11, 12, 13 and 14	All
	Report: Presenting complete graduation project study (Printed on paper and bound form)..	1	10%	15	All
	Final Exam	1	5%	15	All
Total assessment		**100% (100 Marks)**			

Delivery Plan (Weekly Syllabus) المنهاج الإسبوعي	
Week 1	Each student must present three proposals for the graduation project, as well as the site where the project will be designed.
Week 2	Presenting comprehensive and detailed analytical study of the graduation project site.
Week 3	Presenting comprehensive and detailed analytical study of the graduation project site.
Week 4	Presenting comprehensive and detailed analytical study of the graduation project function, as well as functional program of the project.
Week 5	Presenting comprehensive and detailed analytical study of the graduation project function, as well as functional program of the project.
Week 6	Day sketch
Week 7	Presenting examples of existing building projects similar to the graduation project.
Week 8	Mid Exam (Day sketch)
Week 9	Pre-final seminars of the graduated project.
Week 10	Day sketch
Week 11	Final Seminars of the graduated project (Final discussions of the graduation project study).
Week 12	Final Seminars of the graduated project (Final discussions of the graduation project study).
Week 13	Final Seminars of the graduated project (Final discussions of the graduation project study).
Week 14	Final Seminars of the graduated project (Final discussions of the graduation project study).
Week 15	**Final Exam** + Presenting complete graduation project study (Printed on paper and bound form).

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	• Any books or magazines related to project design. • Site visits.	
Recommended Texts	• References that dealt with the project design. • Scientific Videos.	
Websites	https://www.architecturegraduationprojects.com/ https://www.pinterest.com/atheer_40/graduation-project/	

GRADING SCHEME مخطط الدرجات				
Group	**Grade**	**التقدير**	**Marks (%)**	**Definition**
Success Group (50 - 100)	A – Excellent	إمتياز	90 – 100	Outstanding Performance
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Fail Group (0 – 49)	FX – Fail	مقبول بقرار	(45 – 49)	More work required but credit awarded
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MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	Theory of architecture and design			**Module Delivery**	
Module Type	Core			☒ **Theory** **Lecture** **Lab** ☐ **Tutorial** **Practical** × **Seminar**	
Module Code	ARCH5116				
ECTS Credits	4				
SWL (h/sem)	100				
Module Level	5		**Semester of Delivery**	9	
Administering Department	ARCHITECTURE		**College**	College of Engineering	
Module Leader	Dr. Ghada Al Slik		**e-mail**	Ghada.alslik@coeng.uobaghdad.edu.iq	
Module Leader's Acad. Title	Professor		**Module Leader's Qualification**	PhD	
Module Tutor	Lecturer: Amal fadhel ,Amna Basim		**e-mail**	E-mail	
Peer Reviewer Name			**e-mail**	E-mail	
Scientific Committee Approval Date	01/09/2024		**Version Number**		

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	History of architecture/modern architecture	**Semester**	
Co-requisites module	none	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Aims أهداف المادة الدراسية	The aim of this course is to get the student to be acquainted with: 1- All architectural design ways and methods since the beginning of the 20th cent 3- Support the practical design projects the student designs with theoretical background. 4- Enhance the student's ability to face different design tasks 5- Enhance the creative potential of the students by introducing various thinking ways/
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	A1) develop creative minds with flexibility in thinking and expressing their thoughts in projects. (A2) develop an analytical capability, by which the student can go through various design discussions in the future. (A3) support the students ability to use different methodologies in design, and choose the way best for him/her to use.
Indicative Contents المحتويات الإرشادية	Craft and design, development of the design activity, the relationship between design and implementation. The designer , character , psychology and culture The design , act, process , and method Design thinking , intuition , imagination and design methodology The scientific model and relation with logic. The linguistic model and relation with language. Introduction to parametric design.

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	Lectures and classroom discussion, seminars, homework presentations. Site visits, video lectures, online workshops with other universities students.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem):48 الحمل الدراسي المنتظم للطالب خلال الفصل	63	**Structured SWL (h/w):3.2** الحمل الدراسي المنتظم للطالب أسبوعيا	4.2
Unstructured SWL (h/sem);52 الحمل الدراسي غير المنتظم للطالب خلال الفصل	37	**Unstructured SWL (h/w);3.44** الحمل الدراسي غير المنتظم للطالب أسبوعيا	2.46

Total SWL (h/sem):100 الحمل الدراسي الكلي للطالب خلال الفصل	100

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Quizzes**	2	20% (20)	5, 10	1,2
	Assignments	2	10% (10)	2, 12	2
	Projects / Lab.	1	10%(10)	11	3
	composition				
Summative assessment	**Midterm Exam**	2 hr	10% (10)	7	1,2.3
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي النظري

	Material Covered
Week 1	The activity of design , relation of architectural design with other kinds of design , Design over time , different places and periods
Week 2	The act of design between craft and modern way.
Week 3	The designer psychology, intuition, potentials, and motivations
Week 4	Philosophy and design , branches of philosophy , introduction to logic and kinds of logic
Week 5	The scientific model and the designer as a model , the cognitive science thought about design
Week 6	Typological design , the designer and culture
Week 7	Methodologies in design ,

Week 8	Problem solving theory
Week 9	System thinking
Week 10	Discussion of assignments
Week 11	The linguistic model relation with structuralism
Week 12	The utilization of metaphor in design
Week 13	The deconstructive thought of design
Week 14	Parametric design
Week 15	Seminar for student's project
Week 16	**General discussion**

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	
Week 2	
Week 3	
Week 4	
Week 5	
Week 6	
Week 7	

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	**Available in the Library?**
Required Texts	1-Timeless way of building by Christopher Alexander 2-Complexity and Contradiction in architecture Robert Venturi	Yes

	3-Existing Space and architecture Christian Norberg Schulz 4-The architecture of the city Aldo Rossi 5-The art of problem Solving Ackoff 6-Poetics of architecture Antoniades 7 – Pattern Language by Christopher Aexander. 8- Redesigning the future. By Acoff 9- Architecture and its interpretation by Bonta.	
Recommended Texts	All are recommended	
Websites	Many websites.	

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

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information
معلومات المادة الدراسية

Module Title	IRAQ/ REGIONAL CONTEMPRARY ARCH	**Module Delivery**	
Module Type	CORE	☒ **Theory** ☒ **Lecture** **Lab** **Tutorial** ☒ **Practical** ☒ **Seminar**	
Module Code	ARCH5117		
ECTS Credits	4		
SWL (hr/sem)	100		
Module Level	Ugx5 1	**Semester of Delivery**	1 9
Administering Department	Arch	**College**	Engineering
Module Leader	Dr. Fawzia Irhayyim Hussein	**e-mail**	\
Module Leader's Acad. Title		**Module Leader's Qualification**	
Module Tutor	None	**e-mail**	None
Peer Reviewer Name	Dr. Haydar Naji	**e-mail**	\
Review Committee Approval	[redacted]	**Version Number**	1.0

Relation With Other Modules
العلاقة مع المواد الدراسية الأخرى

Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	1. Develop knowledge of Iraq's artistic and cultural history and the ability to deal with the challenges and social, cultural, and economic variables surrounding contemporary Iraqi architecture. 2. Students learn about Iraqi architecture in the 20th century up to now, the rea of 30s , 50s and the work of pioneer Irqi architects up to now. 3. Regional architecture in the same period is given also with the works of main architects. 4. Developing the student's thought about the architecture of modernity in Iraq and its development towards the path of modern Iraqi architecture through the introduction of heritage elements to the architecture of modernity in Iraq 5. Introducing students to the path of development of contemporary Iraqi architecture from the beginning of the twentieth century until now 6. Introducing students to the most important pioneers of contemporary Iraqi architecture and their most important products 7. Deepening the student's sense of the importance of the product of the Iraqi architectural school 8. The student will be familiar with the information base of the reality of contemporary Regional architecture at the level of thought and application 9. The student will be able to analyze the contemporary problems of Islamic cities and architecture and methods of solving the problem of linking heritage and contemporary to achieve an architecture that bears the meanings of the historical, cultural and intellectual heritage and keeping pace with contemporary technologies and modern changes in the Arab Islamic & regional society.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. Developing analytical and critical thinking skills in the field of contemporary Iraqi architecture. 2. The ability to analyze, interpret and evaluate contemporary Iraqi architectural designs and understand the factors affecting their design. 3. Develop knowledge of Iraq's artistic and modern cultural history and the ability to deal with the challenges and social, cultural, and economic variables surrounding contemporary Iraqi architecture. 4. Encouraging the student to design according to the principles of

	contemporary Iraqi architecture by developing knowledge him to the potentiality of the product to enhance the identity of architecture 5. The student will be familiar with the information base of the reality of contemporary Arab-regional architecture at the level of thought and application 6. The student will get acquainted with the theories of contemporary regional architecture and the modern trends of Arab architects 7. The student will get acquainted with important contemporary architects from the region and their architectural works 8. The student will get acquainted with more important circumstances which were influenced architecture and led to the evolution of both form and building materials used 9. The student will be able to analyze the contemporary problems of Iraqi and regional cities and architecture and methods of solving the problem of linking heritage and contemporary to achieve an architecture that bears the meanings of the historical, cultural, and intellectual heritage while keeping pace with contemporary technologies and modern changes in the Arab Islamic society.
Indicative Contents المحتويات الإرشادية	• Developing analytical and critical thinking skills in the field of contemporary Iraqi architecture. • The ability to analyze, interpret and evaluate contemporary Iraqi architectural designs and understand the factors affecting their design. • Develop knowledge of Iraq's artistic and cultural history and the ability to deal with the challenges and social, cultural, and economic variables surrounding contemporary Iraqi architecture. • develop and enlarge the student database concerning contemporary Arab and regional architecture at the intellect and application levels • the student identifies the theories of contemporary And regional architecture. • The subject also deals with regional architecture, the methods of solving the problem of joining tradition and modernism in order to achieve an architecture that bears the historical, cultural, and intellectual heritage, and accompanying the contemporary techniques and the modern variables in the And regional Arab community and the term includes tests and general discussions
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The topic focuses on the study of Iraqi architecture from the late nineteenth century until the end of the twentieth century, with a focus on the most important conceptual and applied transformations during the different decades of the stage, and diagnosing the most important civilizational and cultural influences that accompanied these transformations. The lectures also aim to develop and expand the student's information base on the reality of contemporary Iraqi, Arab، and regional architecture at the level of thought and application (and in a very brief way) for one semester, where the student gets

	acquainted with the modern trends of Iraqi and Arab architects and at the level of neighboring regions, analyzing contemporary problems of architecture and methods of solving the problem of linking between Heritage and Contemporary To achieve an architecture that bears the meanings of the historical, cultural and intellectual heritage and to keep pace with contemporary technologies and modern changes in Iraqi and Arab society. The above is done through the student getting acquainted with a number of distinguished Iraqi and Arab architects and contemporary architectural productions and presenting a number of contemporary productions and the trends that express them in various Arab countries.

Student Workload (SWL)
الحمل الدراسي للطالب

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	48	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	3
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	52	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	3.4
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	100		

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Quizzes**	3	15% (15)	2, 9,13	LO #1, 2, 6 and 7
	Assignments	2	10% (10)	3,11	LO # 3,4 and 8
	Projects / model	1	10% (10)	6	LO # 5
	Report	1	5% (5)	13	LO # 8
Summative assessment	**Midterm Exam**	3 hr	10% (10)	8	LO # 1-5
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي النظري

	Material Covered
Week 1	* Baghdad from the end of the Abbasid state until the Ottoman occupation, the most important remaining monuments -the presentation about this topic.

Week 2	*The Ottomans in Iraq, the architecture of Iraq under the Ottoman rule -Give the student a first quiz.
Week 3	* Baghdad in the last decades of the nineteenth century, governors and reformers in Baghdad -the presentation about this topic.
Week 4	* Architectural and structural formations in the architecture of the Ottoman era in Iraq
Week 5	*The Germans in Iraq and their architectural influence * The British in Iraq, Baghdad at the beginning of the occupation, urban development at the -the presentation about this topic.
Week 6	*beginning of the twentieth century * Iraqi architecture under the national rule, architecture in the thirties * The development in the concept of the Iraqi house -the presentation about this topic.
Week 7	*The Germans in Iraq and their architectural influence * The British in Iraq, Baghdad at the beginning of the occupation, urban development at the -the presentation about this topic.
Week 8	Mid-term Exam
Week 9	* Iraqi architectural scientific missions abroad, the first generation of pioneering Iraqi architects * Iraqi architecture in the fifties -Give the student a second quiz.
Week 10	* Pioneering Iraqi Architects, a sequel * The decade of the sixties and seventies, Iraqi architecture between globalism and heritage inspiration -the presentation about this topic.
Week 11	Iraqi architecture in the shadow of the explosion, the architecture of the eighties -the presentation about this topic. - Quiz
Week 12	* Analysis of contemporary trends of Arab and regional architecture * Discussing the different intellectual and philosophical orientations of contemporary architects in general -the presentation about this topic.
Week 13	* Analysis of the concept of heritage and contemporary and what is the Arab-Islamic city Arab- architecture and regional cities * The traditional conservative trend at the level of thought and application (city-wide projects) -the presentation about this topic.
Week 14	* The popular traditional trend at the level of architecture and the pioneering architects in this direction * Classic direction. Pioneering architects. their thoughts. discuss them -the presentation about this topic.
Week 15	* Contemporary trend (linking between heritage and modernity) The different trends of contemporary Architects and the products expressed * The modern pure trend (formal trends, intellectual trends, environmental trends) various

	productions in the Arab world -the presentation about this topic.
Week 16	**Final Exam**

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	-كتاب العمارة الحديثة في العراق / سنوات التأسيس للدكتور خالد السلطاني -كتاب رؤى معمارية للدكتور خالد السلطاني كتاب -العمارة الحديثة في العراق "خليل الرحماني" The architecture of Rasem Badran Arab architects and the contemporary city	Yes Yes
Recommended Texts	- Arab Urban Journal - Arab Architecture Journal	No
Websites	Different architectural websites. - Arch daily - Arch h2o - Arch space - Dezeen	

APPENDIX:

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

Note:

NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.



ملاحظة: هذا النموذج تم وضعه وتقديمه من قبل مديرية ضمان الجودة في وزارة التعليم العالي والبحث العلمي

	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	Professional practice/build. specification 1		**Module Delivery**		
Module Type	CORE		☐ **Theory** ☒ **Lecture** ☐ **Lab** ☒ **Tutorial** ☒ **Practical** ☒ **Seminar**		
Module Code	ARCH5118				
ECTS Credits	3				
SWL (hr/sem)	75				
Module Level	5		**Semester of Delivery**	9	
Administering Department	Arch		**College**	CEC	
Module Leader	SALLY FAKHRI KHALAF		**e-mail**	s.fakhri@coeng.uobaghdad.edu.iq	
Module Leader's Acad. Title	/		**Module Leader's Qualification**	/	
Module Tutor	/		**e-mail**	None	
Peer Reviewer Name	/		**e-mail**	/	
Review Committee Approval			**Version Number**	1.0	

Relation with Other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module		**Semester**	
Co-requisites module			
Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية			
Module Aims أهداف المادة الدراسية	• Introducing the executive matters related to the field of work to prepare the students to work as coordinators for all elements involved in implementation work • Identifying the types of quantities bills, preparing and organizing quantities, costs and final cost bills		
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	The student learns about the types of construction contractors, methods and foundations adopted in Estimation and construction cost calculations, principles of preparation, quantity tables, Technical specifications, and details of the terms of the construction contractor.		
Indicative Contents المحتويات الإرشادية	• Reports • Daily Interactive Quizzes • Oral Quizzes • Semester Quizzes • Brainstorming Questions • Theory and Practical Analysis		
Learning and Teaching Strategies استراتيجيات التعلم والتعليم			
Strategies	• Lectures • Tutorials • Assignments and Homework • Interactive lessons and brainstorming tests. • Tests and exams, in the class and electronic class • In- In-class questions and Discussions • Seminars • Reports, presentations and posters • Connection between Theory and Application		

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

Module Evaluation تقييم المادة الدراسية					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment 3+45	**Lecture**	2*10	10	10	
	Practical exam	2*4	20	4	
	Seminar	2*3	10	3	
	Mid exam	2*1	30	1	
	Daily exam	2*3	20	3	
	Assignments	1*3	10	3	
Summative assessment 27	**Tuter**	2*3			
	Extracurricular activity	2*3			
	Reports	2*4			
	Daily lesson preparation	1*4			
	Labs	1		1	
	clinical	1		1	
	Online lecture	1		1	
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي	
	Material Covered
Week 1	An introductory lecture on estimation in general
Week 2	Feasibility studies

Week 3	Types of Estimation
Week 4	The Approximate Estimate
Week 5	Construction cost estimates and estimation foundations
Week 6	The increases in project costs
Week 7	Typical and Standard Technical Specifications
Week 8	Calculate the construction quantities for the structure works
Week 9	Calculation the construction quantities for the finishing works
Week 10	Studying the types of quantities bills
Week 11	Calculating the construction cost for each construction element and calculating the final cost
Week 12	Calculating the quantities and construction costs of the fence
Week 13	Calculating quantities of irregular shapes
Week 14	Semester Exam
Week 15	Report Discussion

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	- Estimation and Technical Specifications	Yes
Recommended Texts		
Websites	- Volumes of the General Conditions for Construction Contracts, Parts One and Two	

APPENDIX:

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

NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	SUSTAINABILITY		**Module Delivery**		
Module Type	CORE		☒ **Theory** ☒ **Lecture** ☐ **Lab** ☒ **Tutorial** ☐ **Practical** ☒ **Seminar**		
Module Code	ARCH5119				
ECTS Credits	4				
SWL (hr/sem)	100				
Module Level	5		**Semester of Delivery**	9	
Administering Department	Arch		**College**	COG	
Module Leader	PROF. DR. HODA AL-ALWAN		**e-mail**	HODA-ALWAN@COENG.UOBAGHDAD.EDU.IQ	
Module Leader's Acad. Title	/		**Module Leader's Qualification**	/	
Module Tutor	ASST. LECTURER AHMED ESSAM		**e-mail**	a.i.alkadhim@coeng.uobaghdad.edu.iq	
Peer Reviewer Name	/		**e-mail**	/	
Review Committee Approval	[redacted]		**Version Number**	1.0	

Relation with Other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	_	**Semester**	_

Co-requisites module	_		_

Module Aims, Learning Outcomes and Indicative Contents
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Aims أهداف المادة الدراسية	This course aims to expand students' knowledge base for developing solutions towards a sustainable built environment, and to explore how today's human societies can endure and respond to problems such as global warming, climate change, ecosystem degradation and resources limitation, towards creating a more sustainable future. The subject is of vital importance seeking to uncover the principles of the long-term welfare of all the people of the planet.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	**A.Cognitive goals:** A1: Upon successful completion of the course, students will be able to demonstrate a fundamental knowledge of issues, principles, concepts, processes and practices related to sustainability. A2: Students will be able to demonstrate a fundamental knowledge and understanding of the international efforts to advance sustainability from the late 20th century onwards. A3: Students will have an understanding of their social responsibility as future professionals and citizens. **B.The skills goals special to the course:** B1: Acquire specified knowledge on technical systems related to sustainability, provided by engineering, planning and management, through the control of energy and natural resources and the application of principles of green building design. B2: Strong leadership skills: maintaining team resilience, decision making and forward thinking. B3: Creative problem solving.
Indicative Contents المحتويات الإرشادية	Understanding Sustainability - Introduction to Sustainability - Environmental Issues - Carbon Footprint and Conservation Designing for Sustainability - Green and Sustainable Design - Energy and Resource Efficiency - Green Building Standards Managing Resources and Practices - Waste and Water Management - Green Transportation and Site Design - Indoor Environment Quality Tools, Technologies, and Integration - Innovative Materials and Technologies - Building Information Modeling (BIM). - Reports and Discussions

Learning and Teaching Strategies
استراتيجيات التعلم والتعليم

Strategies	As Sustainability is a cross-disciplinary field of study, the course focuses on topics related to engineering and architecture, as well as building solutions that require technical insights into systems provided by engineering, planning and management. The course offers a contextualized understanding of sustainability. The study within the course moves from the broad aspects of man and environment, energy and climate zones, energy renewable resources, through alternative materials and technologies for sustainability, urban sustainable issues and green design , to the specifies of energy and environment assessment, conservation and management.

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

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Quizzes**				
	Assignments				
	Report				
	Seminar				
Summative assessment	**Midterm Exam**				
	Final Exam				
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي	
	Material Covered
Week 1	- Introduction to sustainability
Week 2	- Environmental Disasters: Global Warming, Climate Change, Ozone Layer Depletion.
Week 3	- Carbon Footprint: Ecology and Conservation
Week 4	- Sustainable and Green Design: - Historical & Community Perspective
Week 5	- Integrated Design Process: Energy Efficiency Building Design, Passive and Active Solar systems, Renewable energy Sources
Week 6	- Green Building Rating System: Accreditation & Assessment
Week 7	- Course Exam
Week 8	- Waste Management: The 4Rs: Reduce, Reuse, Recycle and Recover
Week 9	- Storm-water Management: Water Reuse and Recycling
Week 10	- Green Transportation & Sustainable Sites
Week 11	- Indoor Air Quality (IAQ): Reducing Air Pollution
Week 12	- Building Information Modelling
Week 13	- Reports Discussion
Week 14	- Materials, Resources and Technologies
Week 15	- Discussions and Conclusions

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	1- "The Philosophy of Sustainable Design" by Jason F. Mclennan, Ecotone Publishing, 2004. 2- "Engineering for Sustainability: A Practical Guide for Sustainable Design", by Gerald Jonker & Jan Harmsen, Elsevier, 2012.	1-Yes 2- Yes

	3- "Sustainable Engineering: Concepts, Design, and Case Studies", by David T. Allen & David R. Shonnard, Prentice Hall, 2011. 4-"Sustainability in Engineering Design and Construction", by J. K. Yates & Daniel Castro-Lacouture, CRC Press, 2015.	3-Yes 4-Yes
Recommended Texts		
Websites	- Webflow.com /Responsive sustainable - architecture website	

APPENDIX:

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

NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information
معلومات المادة الدراسية

Module Title	GRADUATION PROJECT 2	**Module Delivery**	
Module Type	C		☐ **Theory** ☒ **Lecture** ☐ **Lab** ☒ **Tutorial** ☒ **Practical** ☒ **Seminar**
Module Code	ARCH 5215		
ECTS Credits	14		
SWL (hr/sem)	350 HOURS		
Module Level	5	**Semester of Delivery**	10
Administering Department	ARCH	**College**	College of Engineering
Module Leader	DR RAND H. M. AGHA Dr. Ghada M.Ismael Kamoona	**e-mail**	rand.h.m.agha@coeng.uobaghdad.edu.iq g.kamoona@coeng.uobaghdad.edu.iq
Module Leader's Acad. Title	Assistant professor	**Module Leader's Qualification**	Ph.D. / Ph.D./
Module Tutor		**e-mail**	
Peer Reviewer Name		**e-mail**	
Review Committee Approval	1-9-2024	**Version Number**	1

Relation with Other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	Arch 9,G.P S	**Semester**	9
Co-requisites module			
Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية			
Module Aims أهداف المادة الدراسية	• The final project is considered the final stage of the knowledge, which has been given to the student during his years of study, represented by intellectual maturity. The basics of the design work and its belonging to the place, its relation to the values, and deep roots of his country, nation, society, tradition, culture and letting the student to express these values through his intellectual and design presentations of the selected project. We emphasize to be one of the real projects proposed by different state offices and which have clear dependable curriculum, or proposed by professors in order to solve a particular problem, or a topographically, environmentally distinguished project of designing requirements that bear a highly leveled capital feature, or a project specified to solve a problem or crisis that is raised in the architectural field like projects of housing, industrial projects, a distinguished conservative project in the case of big projects.		
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	At the end of the class, the student will be able to: a. Analyze and archive individual project of specific function. b. Be aware of many kinds design process and how to solve different related problems connected to building. c. Relation between architectural and structural form. d. Learn how to produce complete single complete project. e. Learn more about architectural details.		

Indicative Contents المحتويات الإرشادية	

Learning and Teaching Strategies
استراتيجيات التعلم والتعليم

Strategies	a. Lectures. b. Tutorials. c. In-Class Questions and Discussions. d. Connection between Theory and Application. e. Working drawing projects. f. In- and Out-Class oral conversation. g. Site visits and documentation. h. Models.

Student Workload (SWL)
الحمل الدراسي للطالب

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	215	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	5
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	135	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	350		

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Examinations, Tests, and day sketches	2	10% (10)	5,10	
	Student Engagement during Lectures	14	5% (5)	1-14	
	Working drawing projects	14	35%(30)		
Summative assessment	Final project (Exam)	5h	50% (50)		All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي

	Material Covered
Week 1	An attempt to reflect the conclusions of the previous study in a compositional concept which gives us primary conception of the whole designing concept without going into accurate executive details.
Week 2	
Week 3	The implementation a group of plans inferred from the comprehensive database of the whole work
Week 4	
Week 5	Note: The academic term involves discussions with students' participation to enrich the study.
Week 6	
Week 7	The student repeats the attempt to present a comprehensive compositional concept in the form of three-dimensional figure and plain plans which give a preliminary conception of the proposed project.
Week 8	
Week 9	
Week 10	
Week 11	Detailed studies of the project's main parts and solving the designing items and reaching a clear expression of elevations and the project's interior features.
Week 12	
Week 13	Are specified for the final preparation of the final project.
Week 14	

Week 15	Note: All the stages of presentation are subjected to the public discussion with professors and students. Moreover, there are quick tests to accompany the student's ability.

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	Any book or magazine related to their projects	Yes
Recommended Texts		
Websites	a. Available websites related to the subject. b. Extracurricular activities.	

APPENDIX:

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

NB Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	Theory of architecture and criticism			**Module Delivery**	
Module Type	Core			☒ **Theory** **Lecture** **Lab** ☐ **Tutorial** **Practical** × **Seminar**	
Module Code	ARCH5216				
ECTS Credits	4				
SWL (h/sem)	100				
Module Level	5		**Semester of Delivery**	10	
Administering Department	ARCHITECTURE		**College**	College of Engineering	
Module Leader	Dr. Ghada Al Slik		**e-mail**	Ghada.alslik@coeng.uobaghdad.edu.iq	
Module Leader's Acad. Title	Professor		**Module Leader's Qualification**	PhD	
Module Tutor	Lecturer Amal Fadhel,Aman Basim		**e-mail**	E-mail	
Peer Reviewer Name			**e-mail**	E-mail	
Scientific Committee Approval Date	O1/09/2024		**Version Number**		

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	Theory of architecture and design	**Semester**	1
Co-requisites module	none	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Aims أهداف المادة الدراسية	The aim of this course is to : 1- Introduce the student to different ways of analysis of architecture. 2- Enable the student to understand the relation between the designer and the p 3- Enable the student to understand types of criticism and the effect of criticism in New movements in architecture. 4- Enable the student to understand various architectural movements in the world. 5- Enable the student to understand the relation between history , theory and critic 6- Enable the student to get acquainted with the standards of worlds awards in arc 7- Enable the student to understand the Iraqi situation and be able to diagnose arch And urban problems.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	A1) develop analytic minds with flexibility in thinking and expressing thoughts in discussions and presentations . (A2) develop understanding of the local circumstances and problems and be able to give suggestion to deal with them (A3)be able to be part of juries and assessment teams of projects .
Indicative Contents المحتويات الإرشادية	Criticism and theory , criticism and history , criticism and design , the critic , the act of criticism and perception , criticism and judgment , criticism and alternative suggestions .

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	Lectures and classroom discussion, seminars, homework presentations. Site visits, video lectures, online workshops with other universities students.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem):48 الحمل الدراسي المنتظم للطالب خلال الفصل	63	**Structured SWL (h/w):3.2** الحمل الدراسي المنتظم للطالب أسبوعيا	4.2
Unstructured SWL (h/sem);52 الحمل الدراسي غير المنتظم للطالب خلال الفصل	37	**Unstructured SWL (h/w);3.44** الحمل الدراسي غير المنتظم للطالب أسبوعيا	2.46
Total SWL (h/sem):100 الحمل الدراسي الكلي للطالب خلال الفصل	100		

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	3	20% (20)	5, 10	1,2
	Assignments	2	10% (10)	2, 12	3,1
	Projects / Lab.	0	0	0	0
	composition	1	10% (10)	13	3,1
Summative assessment	Midterm Exam	2 hr	10% (10)	7	1,2
	Final Exam	2hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	What is criticism, relation with history and theory.
Week 2	The criticism and: perception, understanding, cognition and judgment.
Week 3	The critic , attributes of the critic. Main critics of architecture
Week 4	General and specific kinds of criticism of architecture
Week 5	Tools of criticism , examples and discussion
Week 6	Role of criticism in the rise of modernity , and articulation of new movement , main critics
Week 7	Criticism of modernity and rise of postmodernity , main critics and theorists
Week 8	Criticism of postmodernity, the deconstruction movement ,main critics and theorists
Week 9	Criticism of deconstruction . the folding architecture main critics and theorists
Week 10	General discussion
Week 11	Criticism in Iraqi architecture , problems facing architecture and urban design in Iraq .
Week 12	Identity of architecture and the concept of revivalism
Week 13	Heritage architecture, tangible and intangible heritage , danger facing heritage architecture
Week 14	Main Iraqi and Arab critics and theorists of architecture

Week 15	**Seminars of students work**
Week 16	**General discussions**

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	
Week 2	
Week 3	
Week 4	
Week 5	
Week 6	
Week 7	

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	**Available in the Library?**
Required Texts	1-Timeless way of building by Christopher Alexander 2-Complexity and Contradiction in architecture Robert Venturi 3-Existing Space and architecture Christian Norberg Schulz 4-The architecture of the city Aldo Rossi 5-The art of problem Solving Ackoff 6-Poetics of architecture	Yes No

	Antoniades 7 – Pattern Language by Christopher Aexander. 8- Redesigning the future. By Acoff 8- Architecture and its interpretation by Bonta. 9- Language of modern architecture Charles Jencks 10- The architecture of the jumping universe Charles jencks 11- Space time and architecture Giedion 12- Pioneers of modern movement Nicolas pevsner 13- Ada Louise huxtable Essays in New York Times 14- The death and life of great American cities Jane Jacobs 15- Age of the masters Ryner Banham 16- Digital Hadid and other writings Yes Patric Schumacher	
Recommended Texts	All are recommended	
Websites	Many websites.	

Grading Scheme

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

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	CONSERVATION OF ARCH.		**Module Delivery**		
Module Type	C		☐ **Theory** ☒ **Lecture** ☐ **Lab** ☒ **Tutorial** ☒ **Practical** ☒ **Seminar**		
Module Code	ARCH5217				
ECTS Credits	3				
SWL (hr/sem)	75				
Module Level	5		**Semester of Delivery**	10	
Administering Department	Arch		**College**	COG	
Module Leader	SHATHA A. HASAN		**e-mail**	shatha.a.h@coeng.uobaghdad.edu.iq	
Module Leader's Acad. Title	/		**Module Leader's Qualification**	/	
Module Tutor	/		**e-mail**	None	
Peer Reviewer Name	/		**e-mail**	/	
Review Committee Approval	[redacted]		**Version Number**	1.0	

Relation with Other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module		**Semester**	
Co-requisites module			
Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية			
Module Aims أهداف المادة الدراسية	**• Introducing the student to an important and vital topic, which is the preservation of architectural heritage.** **• It is a specialized scientific field concerned with matters of protection, protection and rehabilitation of buildings and sites of distinguished archaeological, historical and heritage value**		
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	**1. The lesson covers the basic principles and concepts of the subject, starting with the concept of heritage and cultural and architectural legacy.** **• The objectives of protecting and preserving it, and the basic concepts for detecting, recording and documenting the distinguished architectural heritage.** **• Then choose the appropriate treatment method.** **• Methods of rehabilitation and revival of buildings that preserve contemporary uses.** **2. • With exposure to many local, Arab and international applied examples.**		
Indicative Contents المحتويات الإرشادية	tasks assigned to the student such as daily preparation, daily oral, monthly written exams, reports		
Learning and Teaching Strategies استراتيجيات التعلم والتعليم			
Strategies	1 Lectures. 2. Lessons. 3. Duties and reports. 4. Tests and examinations. 5. Questions and discussions in the classroom. 6. Other activities such as site visits		

Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	45+3	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	3
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	27	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	1.8
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	75		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative Assessment 45+3	**Project work**	1	5%	1	LO# (1-6)
	Quizzes	3	20%	٣,٦,٩	LO# (1-6)
	Project	1	5%	5,٨,١٢	LO# (4,6,11)
	Report	1	5%	13,14	LO# (4-8)
	Assignment	2	5%	٤،٧،١٠،2	LO# (4-8)
Summative Assessment 27	**Midterm exam**	3 hr	10%	11	
	Final exam	3 hr	50%		
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي	
	Material Covered
Week 1	What is conservation
Week 2	Conservation technique and policies
Week 3	How to choose building for conservation
Week 4	Review on Baghdad history
Week 5	Reasons of fall in building
Week 6	Architectural conservation and urban conservation

Week 7	International experience in this field
Week 8	Historical building in Iraq
Week 9	Heritage building in Iraq
Week 10	Conservation importance and related to economy
Week 11	Investment in conservation field
Week 12	Architectural Conservations examples
Week 13	Urban Conservations examples
Week 14	Examination
Week 15	Submission of reports

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	1. The history of architecture in the land of Mesopotamia (Shatha Abbas) 2. Somer (Sittin Lloyd)	
Recommended Texts		
Websites	-	

APPENDIX:

GRADING SCHEME
مخطط الدرجات

Group	Grade	التقدير	Marks (%)	Definition
Success Group	**A** - Excellent	امتياز	90 - 100	Outstanding Performance

(50 - 100)	**B** - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX** – Fail	مقبول بقرار	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

Note:

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	Ministry of Higher Education and Scientific Research - Iraq University of Baghdad College of Engineering Department of Architectural Engineering	

MODULE DESCRIPTOR FORM
نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	Professional Practice and Ethics 2		**Module Delivery**		
Module Type	CORE		☐ **Theory** ☒ **Lecture** ☐ **Lab** ☒ **Tutorial** ☒ **Practical** ☒ **Seminar**		
Module Code	ARCH5218				
ECTS Credits	3				
SWL (hr/sem)	75				
Module Level	5		**Semester of Delivery**	10	
Administering Department	Arch		**College**	CEC	
Module Leader	SALLY FAKHRI KHALAF		**e-mail**	s.fakhri@coeng.uobaghdad.edu.iq	
Module Leader's Acad. Title	/		**Module Leader's Qualification**	/	
Module Tutor	/		**e-mail**	None	
Peer Reviewer Name	/		**e-mail**	/	
Review Committee Approval	[redacted]		**Version Number**	1.0	

Relation with Other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module		**Semester**	
Co-requisites module			
Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية			
Module Aims أهداف المادة الدراسية	• Introducing the student to the principles of professional behavior and practice, the architect's duties towards his profession through design proposals as a thinker and innovator, and his field practice as a coordinator and leader of the executive team. • The students learn about the legal documents for tenders and the method of preparing general documents for construction contracts		
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	The students learn about the main and secondary duties of the architect, the principles of professional progression, and the general conditions for construction contracting.		
Indicative Contents المحتويات الإرشادية	• Reports • Daily Interactive Quizzes • Oral Quizzes • Semester Quizzes • Brainstorming Questions • Theory and Practical Analysis		
Learning and Teaching Strategies استراتيجيات التعلم والتعليم			
Strategies	• Lectures • Tutorials • Assignments and Homework • Interactive lessons and brainstorming tests. • Tests and exams, in the class and electronic class • In- In-class questions and Discussions • Seminars • Reports, presentations and posters • Connection between Theory and Application		

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

Module Evaluation تقييم المادة الدراسية					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment 3+45	**Lecture**	2*10	10	10	
	Practical exam	2*4	20	4	
	Seminar	2*2	10	3	
	Mid exam	2*2	30	1	
	Daily exam	2*3	20	3	
	Assignments	1*3	10	3	
Summative assessment 27	**Tuter**	2*3			
	Extracurricular activity	2*3			
	Reports	2*4			
	Daily lesson preparation	1*4			
	Labs	1		1	
	clinical	1		1	
	Online lecture	1		1	
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي	
	Material Covered
Week 1	An introductory lecture on the principles of professional practicing in general
Week 2	Definition of the construction field and components of the construction field

Week 3	Professional progression and Organizations and unions organizing engineering work
Week 4	Methods for selecting an architect
Week 5	Architectural competition
Week 6	The architect and his basic duties
Week 7	The architect and his secondary duties
Week 8	Architectural fees
Week 9	Engineering work parties
Week 10	Types of Construction Contracts
Week 11	Legal documents for tenders and construction contracts
Week 12	General conditions for construction contracts
Week 13	The engineering contract
Week 14	Semester Exam
Week 15	Report Discussion

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	- Professional Practice	Yes
Recommended Texts	- Volumes of the General Conditions for Construction Contracts, Parts One and Two	
Websites	- Volumes of the General Conditions for Construction Contracts, Parts One and Two - FIDIC	

APPENDIX:

GRADING SCHEME مخطط الدرجات				
Group	**Grade**	التقدير	**Marks (%)**	**Definition**
Success Group (50 - 100)	**A** - Excellent	امتياز	90 - 100	Outstanding Performance
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MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Advance building Technology**			**Module Delivery**	
Module Type	**Core learning activity**			**x Theory** **x Lecture** **☐ Lab** **x Tutorial** **☐Practical** **☐Seminar**	
Module Code	**ARCH5220**				
ECTS Credits	**3**				
SWL (hr/sem)	**75**				
Module Level	5		**Semester of Delivery**	10	
Administering Department	Architectural		**College**	Engineering	
Module Leader	Ahmed Khudher Abdulridha		**e-mail**	ahmed.khudher@coeng.uobaghdad.edu.iq	
Module Leader's Acad. Title	Teacher		**Module Leader's Qualification**	Ph.D.	
Module Tutor	None		**e-mail**		
Peer Reviewer Name	None		**e-mail**	none	
Scientific Committee Approval Date			**Version Number**	1.0	

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

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	The subject aims to familiarize the students with technology as an intellect and application in general, and the building technology in particular. The subject acquaints the students with the relationship of technology with architecture as a social requirement with special focus on the ways to upgrade technology from primitiveness and craftsmanship to the modern scientific/industrial technology, within a complementary and comprehensive view in the architectural act.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	This subject explores the connection between structural and spatial elements in architecture. It highlights how understanding structural patterns—like supports and spanning systems—can shape the overall design and layout of a building.
Indicative Contents المحتويات الإرشادية	75 Hours of of students work included many of assaments and exams

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The subject will be presented to students through a specified series of lectures and tutorials assisted by notes. It will be supported by utilizing of computer assisted packages. The learning element will be evaluated by a set of assignments, projects and tests to ensure outcomes are achieved. In addition to the students will be working as groups to build a structural model, in order to test under a gravity loads and earthquake.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	48	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	none
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	27	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	none
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**75**		

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes				
	Assignments	2	5% (5)	6, 11	
	Projects / Lab.	2	10% (10)	4, 9	
	Report	1	5% (5)	14	
Summative assessment	Midterm Exam	2hr	20% (20)	7	
	Final Exam	3hr	60% (60)	16	
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي النظري

	Material Covered
Week 1	Introduction
Week 2	Building Structures
Week 3	Building Structures
Week 4	Structural Patterns
Week 5	Structural Patterns
Week 6	Horizontal Spans
Week 7	Horizontal Spans
Week 8	Vertical Spans
Week 9	Lateral Stability
Week 10	Lateral Stability
Week 11	Long-Span Structures
Week 12	Long-Span Structures
Week 13	High-Rise Structures
Week 14	High-Rise Structures
Week 15	Systems Integration
Week 16	Exam

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	• Francis D.K. Ching - Building Structures Illustrated 2nd Ed. • Seismic_Design_for_Architects_Outwitting.	No
Recommended Texts	• structure-systems-Henio-Engel. • Structure as architecture a source book for architects and structural engineers	Yes
Websites		

Grading Scheme
مخطط الدرجات

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

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	التفاصيل و الخدمات المعمارية **Architectural services & details**			**Module Delivery**	
Module Type	Core Learning activity			**x Theory** **x Lecture** **☐Lab** **x Tutorial** **☐Practical** **☐Seminar**	
Module Code	ARCH5221				
ECTS Credits	3				
SWL (hr/sem)	75				
Module Level	5		**Semester of Delivery**	10	
Administering Department	Architectural		**College**	Engineering	
Module Leader	Sharq Jaffer Hadi Al-Yassiry		**e-mail**	sharq.alyassiry@coeng.uobaghdad.edu.iq	
Module Leader's Acad. Title	Assistant lecturer		**Module Leader's Qualification**	M.Sc.	
Module Tutor	Sharq Jaffer Hadi Al-Yassiry		**e-mail**	sharq.alyassiry@coeng.uobaghdad.edu.iq	
Peer Reviewer Name	None		**e-mail**	none	
Scientific Committee Approval Date			**Version Number**	1.0	

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

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	اعطاء الطالب فكرة عامة عن مختلف التفاصيل الهندسية و المعمارية و الخدمات المرتبطة و المتعلقة بمشروع التخرج للطالب و التي تؤهله لكي يكون مهندس معماري ناجح و متمكن و ذو معرفة و دراية واطلاع على كل التفاصيل المبنى و احتياجات و متطلبات باقي الاختصاصات الهندسية الاخرى و علاقتها و انعكاسها في التصميم و مشروع الاطروحة الخاص به
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	.
Indicative Contents المحتويات الإرشادية	work included many of assaments and sours of of student H75 exams

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	48	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	3
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	27	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	none
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	75		

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes				
	Assignments				
	Projects / Lab.				
	Report				
Summative assessment	Midterm Exam				
	Final Exam				
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Introduction
Week 2	محاضرة المقياس الانساني و مقياس الرسم و علاقه بالمستخدم
Week 3	محاضرة المداخل و معالجاتها و التعريف بها
Week 4	محاضرة الحركة عمودية و الافقية للاشخاص و سيارات
Week 5	محاضرة هياكل انشائية و مقاومة الزلازل و اضافة الجدران الشير وول و كور المصاعد و المصاعد لمقاومة الزلازل و معايير الحريق و مقاومته و انتشاره
Week 6	محاضرة تعامل مع الاضافة و الابنية الحفاظ من ناحية الهيكل الانشائي من حيث الاضافات التي لاتوؤثر على المنشات من جدران زجاجية او خشبية او اضافات من نفس المواد او استخدام تقنيات الكترونية
Week 7	محاضرة عن الخدمات صحية كهربائية ميكانيك سواء كانت للابنية الافقية مثل الكلية او الابنية العمودي
Week 8	محاضرة عن تنطيق المخططات و الكرافيك للمخططات بصورة هندسية صحيحة
Week 9	محاضرة عن اخطاء الرسم و تعبيراتها الخطا في الواقع الحال مثلا الفتحات او الادرج او البالكونات
Week 10	محاضرة عن تفاصيل القاعات بمختلف انواعها دراسة صوتية موسيقية مسارح متعدد و المعالجات الصوتية
Week 11	محاضرة عن الاستدامة و العمارة الخضراء و استخدام تقنياتها بصورة عامة
Week 12	محاضرة عن التصنيف للوظائف المعمارية للمشاريع صناعي تجاري خدمي تعليمي تاريخي تراثي استثماري و هكذا و تصنيف للبرنامج الوظيفي للمشروع عام خلص خدمي تجاري اداري و هكذا
Week 13	مطالبة بالبرنامج البنائي لكل مشروع و البداء بتدقيقه على مشاريع التخرج الاطروحة
Week 14	المطالبة بمخططات تفصيلية اولية لبناية رئيسية للاطروحة
Week 15	المطالبة بمخططات تفصيلية قبل النهائية للبناية الرئيسية في للاطروحة
Week 16	المطالبة بمخططات تفصيلية نهائية للبناية الرئيسية في للاطروحة

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts		
Recommended Texts		
Websites		

Grading Scheme مخطط الدرجات				
Group	**Grade**	التقدير	**Marks %**	**Definition**
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