

نموذج وصف البرنامج الأكاديمي

اسم الجامعة: جامعة...الصفوة.....
الكلية/ المعهد: كلية...الهندسة.....
القسم العلمي: قسم...الهندسة المعمارية.....
اسم البرنامج الأكاديمي او المهني: بكالوريوس هندسة.....
اسم الشهادة النهائية: بكالوريوس في علوم الهندسة المعمارية.....
النظام الدراسي: بولونيا
تاريخ اعداد الوصف:
تاريخ ملء الملف:


التوقيع :
اسم المعاون العلمي: م.د. حسين إبراهيم حسين
التاريخ :


التوقيع :
اسم رئيس القسم: أ.م.د. ستار جبار الاعرجي
التاريخ :
26.01.2025

دقق الملف من قبل
شعبة ضمان الجودة والأداء الجامعي
اسم مدير شعبة ضمان الجودة والأداء الجامعي: أ.د. معز محمد
التاريخ 25-1-2025
التوقيع


مصادقة السيد العميد
أ.د. هينلر جليل كامل الفرابي



وزارة التعليم العالي والبحث العلمي
جهاز الإشراف والتقويم العلمي
دائرة ضمان الجودة والاعتماد الأكاديمي
قسم الاعتماد

دليل وصف البرنامج الأكاديمي والمقرر الدراسي

2025-2026

المقدمة:

يُعد البرنامج التعليمي بمثابة حزمة منسقة ومنظمة من المقررات الدراسية التي تشتمل على إجراءات وخبرات تنظم بشكل مفردات دراسية الغرض الأساس منها بناء وصقل مهارات الخريجين مما يجعلهم مؤهلين لتلبية متطلبات سوق العمل يتم مراجعته وتقييمه سنوياً عبر إجراءات وبرامج التدقيق الداخلي أو الخارجي مثل برنامج الممتحن الخارجي.

يقدم وصف البرنامج الأكاديمي ملخص موجز للسمات الرئيسية للبرنامج ومقرراته مبيناً المهارات التي يتم العمل على اكسابها للطلبة مبنية على وفق اهداف البرنامج الأكاديمي وتتجلى أهمية هذا الوصف لكونه يمثل الحجر الأساس في الحصول على الاعتماد البرامجي ويشترك في كتابته الملاكات التدريسية بإشراف اللجان العلمية في الأقسام العلمية.

ويتضمن هذا الدليل بنسخته الثانية وصفاً للبرنامج الأكاديمي بعد تحديث مفردات وفقرات الدليل السابق في ضوء مستجدات وتطورات النظام التعليمي في العراق والذي تضمن وصف البرنامج الأكاديمي بشكلها التقليدي نظام (سنوي، فصلي) فضلاً عن اعتماد وصف البرنامج الأكاديمي المعمم بموجب كتاب دائرة الدراسات ت م 2906/3 في 2023/5/3 فيما يخص البرامج التي تعتمد مسار بولونيا أساساً لعملها.

وفي هذا المجال لا يسعنا إلا أن نؤكد على أهمية كتابة وصف البرامج الأكاديمية والمقررات الدراسية لضمان حسن سير العملية التعليمية.

مفاهيم ومصطلحات:

وصف البرنامج الأكاديمي: يوفر وصف البرنامج الأكاديمي إيجازاً مقتضباً لرؤيته ورسالته وأهدافه متضمناً وصفاً دقيقاً لمخرجات التعلم المستهدفة على وفق استراتيجيات تعلم محددة.

وصف المقرر: يوفر إيجازاً مقتضباً لأهم خصائص المقرر ومخرجات التعلم المتوقعة من الطالب تحقيقها مبرهنأ عما إذا كان قد حقق الاستفادة القصوى من فرص التعلم المتاحة. ويكون مشتق من وصف البرنامج. **رؤية البرنامج:** صورة طموحة لمستقبل البرنامج الأكاديمي ليكون برنامجاً متطوراً وملهماً ومحفزاً وواقعياً وقابلاً للتطبيق.

رسالة البرنامج: توضح الأهداف والأنشطة اللازمة لتحقيقها بشكل موجز كما يحدد مسارات تطور البرنامج واتجاهاته.

اهداف البرنامج: هي عبارات تصف ما ينوي البرنامج الأكاديمي تحقيقه خلال فترة زمنية محددة وتكون قابلة للقياس والملاحظة.

هيكلية المنهج: كافة المقررات الدراسية / المواد الدراسية التي يتضمنها البرنامج الأكاديمي على وفق نظام التعلم المعتمد (فصلي، سنوي، مسار بولونيا) سواء كانت متطلب (وزارة، جامعة، كلية وقسم علمي) مع عدد الوحدات الدراسية.

مخرجات التعلم: مجموعة متوافقة من المعارف والمهارات والقيم التي اكتسبها الطالب بعد انتهاء البرنامج الأكاديمي بنجاح ويجب أن يُحدد مخرجات التعلم لكل مقرر بالشكل الذي يحقق اهداف البرنامج.

استراتيجيات التعليم والتعلم: بأنها الاستراتيجيات المستخدمة من قبل عضو هيئة التدريس لتطوير تعليم وتعلم الطالب وهي خطط يتم إتباعها للوصول إلى أهداف التعلم. أي تصف جميع الأنشطة الصفية واللاصفية لتحقيق نتائج التعلم للبرنامج.

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التاريخ
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مصادقة السيد العميد

1. رؤية البرنامج

تذكر رؤية البرنامج كما هو مذكور في نشرة الجامعة وموقعها الإلكتروني. تحقيق تعليم متميز في تخطيط وتصميم وتشديد بيئة عمرانية مستدامة وتعزيز البحث العلمي وخدمة العراق ومحافظة كربلاء خاصة، من خلال أعداد الملاكات الهندسية المتخصصة للعمل في مؤسسات الدولة المختلفة وإجراء البحوث العلمية كما يهدف القسم الى تخرج هذه الملاكات الهندسية متخصصة في هذا المجال وبما يتواءم مع التطورات العلمية والاقتصادية في سوق العمل.

2. رسالة البرنامج

- تذكر رسالة البرنامج كما هو مذكور في نشرة الجامعة وموقعها الإلكتروني.
- تخرج مهندسين معيارين مبدعين ومؤهلين تأهيلا عاليا في هذا التخصص وملتمزين باخلاقيات المهنة .
 - بناء الصفات القيادية في الخريج من خلال التدريب على حل المشكلات، والعمل الجماعي، والقيادي في المهنة .
 - غرس روح الالتزام في الخريج للحصول على المعرفة وخدمة المجتمع.
 - المساهمة في الأفكار البحثية وإجراء البحوث لصالح المجتمع وتنميته.
 - رعاية الطلبة المتميزين وتشجيعهم على استخدام مهاراتهم.
 - إرشاد الطلبة وتوجيههم وتعزيز روح المواطنة.
 - توفير بيئة عمل جيدة للطلاب وأعضاء هيئة التدريس وغيرهم من الموظفين مع التركيز على المعايير الأكاديمية والمهنية الأخلاقية العالية داخل الحرم الجامعي. وحرية الرأي واحترام الآخرين وتشجيع تبادل المعرفة.

3. اهداف البرنامج

- عبارات عامة تصف ما ينوي البرنامج او المؤسسة تحقيقه.
- وضع المناهج والخطط البحثية اللازمة لتحقيق رؤية ورسالة قسم هندسة العمارة والعمل على تطويرها كي يسهم المهندس المتخرج منه بفاعلية في عملية التنمية المستدامة وتطوير البلد.
 - المساهمة في تحقيق الاستخدام المباني حيث يهدف القسم إلى إكساب خريجه المهارات والأساليب الخاصة بتخطيط وتصميم المباني في وضع إستراتيجية شاملة لتنظيم المدن في العراق.
 - بلورة الأسس لمدرسة معمارية عراقية تؤكد ضرورة الاستلهام من التراث المعماري المحلي ضمن مفهوم متطور ومعاصر وذو جذور تاريخية رصينة وترسيخها لخدمة الوطن.
 - ترسيخ فهم الأهمية المحلية في الثوابت المعمارية التي تغطي البيئة الفيزيائية (البيئة المناخية والبيئة الطبيعية والأناثة ومفاهيم الصوت والراحة الحرارية) وخصوصية المكان في التخطيط العام للمدينة والنسيج العمراني والتصميم الحضري والبناء في مواد المحلية وتقنياته وعلاقته بالمقياس الأنساني في المبنى الواحد وتجمعاته.
 - مواكبة التقنيات المتطورة في المناهج التعليمية والمقررات الدراسية وخاصة في مجال الحاسوب والتطبيقات الحديثة المتطورة في مجالات الرسم والأظهار المعماري بمساعدة الحاسوب وتطوير مهارات الطلبة في هذا المجال.
 - المساهمة في تعزيز مكانة الكلية والجامعة في المجتمع من خلال المشاركة الفعالة في برامج التعليم المستمر والندوات والمؤتمرات وعن طريق تقديم الاستشارات الهندسية.
 - تحسين قدرات الهيئة التدريسية واستقطاب الكفاءات الجيدة للقسم وتوفير بيئة عمل مناسبة للتدريسيين والموظفين والطلبة.
 - الانفتاح على المؤسسات التعليمية العالمية المناظرة والاستفادة من إمكاناتها وخبراتها عن طريق برامج التعاون البحثي وحضور المؤتمرات وورش العمل

4. الاعتماد البرامجي

هل البرنامج حاصل على الاعتماد البرامجي ؟ ومن اي جهة ؟
كلا

5. المؤثرات الخارجية الأخرى

هل هناك جهة راعية للبرنامج ؟
كلا

6. هيكلية البرنامج

ملاحظات *	النسبة المئوية	وحدة دراسية	عدد المقررات	هيكل البرنامج
				متطلبات المؤسسة
				متطلبات الكلية
				متطلبات القسم
				التدريب الصيفي
				أخرى

* ممكن ان تتضمن الملاحظات فيما اذا كان المقرر أساسي او اختياري .

7. وصف البرنامج

الساعات المعتمدة	اسم المقرر أو المساق	رمز المقرر أو المساق	السنة / المستوى
عملي	نظري		

8. مخرجات التعلم المتوقعة للبرنامج

<ul style="list-style-type: none"> - الإلمام بالنظريات والمفاهيم الأساسية في التصميم المعماري والتخطيط العمراني. - فهم العلاقات بين الإنسان والبيئة المبنية. 	المعرفة (Knowledge)
<ul style="list-style-type: none"> - القدرة على تحليل المواقع وإعداد التصاميم المعمارية المتكاملة. - تطبيق التقنيات الرقمية الحديثة في عمليات التصميم والعرض. 	المهارات (Skills)

الكفاءات (Competencies)	<ul style="list-style-type: none"> - اتخاذ قرارات تصميمية مسؤولة بيئيًا ومجتمعيًا. - إدارة المشاريع والعمل الجماعي ضمن فرق متعددة التخصصات.
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9. استراتيجيات التعليم والتعلم
<p>استراتيجيات وطرائق التعليم والتعلم المعتمدة في تنفيذ البرنامج بشكل عام .</p> <p>وتتم من خلال عدد من الممارسات منها:</p> <p>أ. تكليف الطلبة في كل عام بعدة مشاريع هندسية لكي يصممها حيث يتدرج نمو حجم المشروع من المرحلة الاولى الى امرحلة الخامسة .</p> <p>ب. يكلف الطلبة بإعداد تقارير عن أغلب المواد الدراسية لكي يتعلموا المبادئ الأولية للبحث العلمي:</p> <p>ج. اعتماد السفريات العلمية لمراكز صناعة الاطراف والمساند الطبية المختلفة للإطلاع والتعرف على حقل العمل.</p> <p>د. تطوير مهارات الكادر التدريسي من خلال:</p> <p>1)المشاركة في دورات طرائق التدريس.</p> <p>2)إقامة الحلقات والندوات الدراسية.</p> <p>3)إقامة دورات تخصصية يشارك فيها التدريسيون من داخل وخارج القسم.</p> <p>4)المشاركة في المؤتمرات العلمية التي تقيها الجامعات المختلفة.</p> <p>هـ. تطوير مهارات الكادر الهندسي والفني من خلال المشاركة في دورات طرائق التدريب وإقامة دورات تطويرية لهم في مجال الاختصاص.</p> <p>و. محاولات تطوير برامج التدريب المنهجي من خلال زج العدد الأكبر من الطلبة في التدريب العملي في سفريات ميدانة لمواقع العمل المختلفة .</p>

1. طرائق التقييم
<p>تنفيذها في جميع مراحل البرنامج بشكل عام .</p> <p>الحلقات الدراسية، الاختبارات المفاجئة، التقارير الجماعية، المناقشات خلال المحاضرات، الاختبارات التحريرية، الاختبارات الشفوية، الواجبات البيتية، الاختبارات العملية الصفية في الرسم.</p>

2. الهيئة التدريسية

أعضاء هيئة التدريس

ت	الرتبة العلمية	التخصص		المتطلبات/ المهارات الخاصة (ان وجدت)	اعداد الهيئة التدريسية	
		عام	خاص		ملاك	محاضر
1	ستار جبار منصور حمزة	أستاذ مدرس مساعد	هندسة عمارة	تصميم حضري	•	
2	عادل منعم عبد الحسين عبد الكريم	مساعد دكتور	هندسة عمارة	هندسة عمارة	•	
3	حازم عبودي كريم سعيد	أستاذ دكتور	تربية فنية	فنون تشكيلية	•	
4	خولة عاصم محمد	مساعد دكتور	هندسة عمارة	هندسة عمارة	•	
5	عماد عبد الحميد ستار	مدرس دكتور	هندسة عمارة	هندسة عمارة	•	
6	احمد موسى عبد الهادي	مدرس دكتور	هندسة مدني	مواد بناء واقصاد	•	
7	سارة حنفي حسن	مدرس مساعد	هندسة عمارة	التخطيط الحضري والاقليمي	•	
8	منتظر جبار منصور	مدرس مساعد	هندسة مدني	بناء وانشاءات	•	
9	إبراهيم عمر شيخو	مدرس دكتور	هندسة عمارة	العلوم التكنيكية	•	
10	رانيا اياد صاحب	مدرس مساعد	هندسة عمارة	هندسة عمارة	•	
12	هبة حاكم مدفون راضي	مدرس مساعد	هندسة عمارة	تصميم معماري	•	
13	هدى هاشم محمد عودة	مدرس مساعد	هندسة مدني	بناء وانشاءات	•	
13	احمد كاظم مجيد هدو	مدرس مساعد	هندسة عمارة	هندسة عمارة	•	
14	منذر ظاهر محمد عبود	مدرس مساعد	رياضيات	جبر مجرد	•	
15	سجاد فراس عبد الامير	مدرس مساعد	هندسة مدني	هندسة مدني	•	

•				تصميم حضري	هندسة عمارة	مدرس مساعد	صبا صالح شلال حسن	16
•				هندسة عمارة	هندسة عمارة	مدرس مساعد	زينب محمود مالك	17
•				ليزر وكهرو بصريا ت	علوم فيزياء	مدرس دكتور	عمار شاكر هادي عبد الحميد	18
•				هندسة مدني	هندسة مدني	أستاذ دكتور	حسام هادي علوان	19
	•			Linguistics علم اللغة	اللغة انكليزية	مدرس مساعد	خالد جميل حنتاو	20
•				اللسانيات	اللغة العربية	مدرس دكتور	ايناس حمزة سلطان عباس	21

التطوير المهني

توجيه أعضاء هيئة التدريس الجدد

تصف بإيجاز العملية المستخدمة لتوجيه أعضاء هيئة التدريس الجدد والزائرين والمتفرغين وغير المتفرغين على مستوى المؤسسة والقسم.

- يتم ذلك من خلال اشراك اعضاء هيئة التدريس الجدد في مقررات دراسية مع اساتذة ذوي لقب علمي اعلى و خبرة.
- تكليفهم بإعداد حلقة دراسية عن أحد المواضيع العلمية ويتم إلقائها بحضور الكادر التدريسي في القسم.
- اشراكهم باللجان المهمة في القسم.
- اشراكهم بالمؤتمرات و الحلقات العلمية داخل و خارج العراق.
- الحافز الفردي للتدريسي من خلال استمرار البحث والاطلاع على المصادر الحديثة واستغلال شبكة الإنترنت للاطلاع على مواقع الجامعات العالمية واقتباس الأساليب الحديثة في عملية التعلم والتعليم.

التطوير المهني لأعضاء هيئة التدريس

يتم تطوير قابلية التدريسيين من خلال إشراكهم في دورات طرائق التدريس التي تقام في مركز تطوير الملاكات وكذلك من خلال إقامة الحلقات الدراسية على مستوى القسم حيث يكلف كل تدريسي بإعداد حلقة دراسية عن أحد المواضيع العلمية ويتم إلقائها بحضور الكادر التدريسي في القسم ويحضر الموضوع إلى المناقشة وتسجل الملاحظات الضرورية حيث يستفاد من ذلك في صقل شخصية التدريسي ومساعدته في إدارة النقاش والدفاع وإبداء الرأي التي من شأنها أن تساعد في رفع المستوى العلمي للتدريسي وتطوير قabiliاته. كذلك فقد شارك العديد من تدريسي القسم في السنوات الأخيرة بدورات داخل وخارج القطر كان لها أثر إيجابي في زيادة الاطلاع وتطوير المهارات كما يشارك معظم تدريسي القسم سنوياً بالعديد من المؤتمرات العلمية التي تعيها الجامعات العراقية كباحثين أو كمشاركين.

10. معيار القبول

(وضع الأنظمة المتعلقة بالالتحاق بالكلية أو المعهد سواء قبول مركزي أو أخرى تذكر)

يتم قبول الطلاب في القسم قبولاً مركزياً من خلال توزيع الطلاب من قبل الوزارة على مختلف الكليات والمعاهد، حيث يقوم الطالب من خريجي الدراسة الإعدادية الفرع العلمي (التطبيقي) بمليء استمارة القبول التي من خلالها يتم قبوله واعتماداً على تسلسل اختياراته ومعدله وأعداد الطلبة المتقدمين والحدود الدنيا للمعدلات. يتم قبول الطلبة المتقدمين إلى الكلية بشكل مباشر من خلال استمارة القبول المركزي وليس على أساس الأقسام الهندسية.

3. أهم مصادر المعلومات عن البرنامج

تذكر بصورة مختصرة .

1. خطة تطوير البرنامج

تم وضع البرنامج و المناهج والمخطط البحثية اللازمة لتحقيق رؤية ورسالة قسم هندسة العمارة والعمل على تطويرها كي يسهم المهندس المتخرج منه بفاعلية في عملية التنمية المستدامة وتطوير البلد.

مخطط مهارات البرنامج															
مخرجات التعلم المطلوبة من البرنامج															
الكفاءات				المهارات				المعرفة				اساسي أم اختياري	اسم المقرر	رمز المقرر	السنة / المستوى
ج4	ج3	ج2	ج1	ب4	ب3	ب2	ب1	أ4	أ3	أ2	أ1				

• يرجى وضع اشارة في المربعات المقابلة لمخرجات التعلم الفردية من البرنامج الخاضعة للتقييم



وزارة التعليم العالي والبحث العلمي
جهاز الإشراف والتقييم العلمي
دائرة ضمان الجودة والاعتماد الأكاديمي
قسم الاعتماد

دليل وصف البرنامج الأكاديمي والمقرر

2025

MODULE DESCRIPTION FORM

نموذج وصف المقرر

1. اسم المقرر					
2. رمز المقرر					
3. الفصل / السنة					
4. تاريخ إعداد هذا الوصف					
5. أشكال الحضور المتاحة					
6. عدد الساعات الدراسية (الكلية) // عدد الوحدات (الكلية)					
7. اسم مسؤول المقرر الدراسي (إذا أكثر من اسم يذكر) الاسم: الأيميل :					
8. اهداف المقرر					
اهداف المادة الدراسية					
•	•	•	•	•	•
9. استراتيجيات التعليم والتعلم					
الاستراتيجية					
10. بنية المقرر					
الأسبوع	الساعات	مخرجات التعلم المطلوبة	اسم الوحدة او الموضوع	طريقة التعلم	طريقة التقييم
11. تقييم المقرر					
توزيع الدرجة من 100 على وفق المهام المكلف بها الطالب مثل التحضير اليومي والامتحانات اليومية والشفوية والشهرية والتحريرية والتقارير الخ					
12. مصادر التعلم والتدريس					
الكتب المقررة المطلوبة (المنهجية أن وجدت)					
المراجع الرئيسية (المصادر)					
الكتب والمراجع الساندة التي يوصى بها (المجلات العلمية، التقارير....)					
المراجع الإلكترونية ، مواقع الانترنت					

الخطة الدراسية لقسم هندسة العمارة

1- المرحلة الاولى

Level		Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w)				Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	ABET	Module Type	Prerequisite Module(s)		
								CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	em (hr/w)								
UGI	One	1	Arch011	Architectural Design I	التصميم المعماري-1	English					12			180	70	250	10.00	6.00	C		
		2	Arch012	Architectural Drawing I	الرسم المعماري-1	English						3			48	52	100	4.00	1.00	C	
		3	Arch013	Physics	الفيزياء	English	3						1		3	108	67	175	7.00	4.00	B
		4	Arch014	Mathematics I	الرياضيات-1	English	3	1					1		3	78	72	150	6.00	4.00	B
		5	UOK105	Computer Science	علوم الحاسوب	English	1								3	48	27	75	3.00	2.00	S
		6													0		0	0.00	0.00		
Total								7	1	5	15	2	0	12	462	288	750	30.00	17.00		
UGI	Two	1	Arch021	Architectural Design II	التصميم المعماري-2	English					12			180	70	250	10.00	6.00	C		
		2	Arch022	Architectural Drawing II	الرسم المعماري-2	English						4			63	62	125	5.00	2.00	C	
		3	UOK021	Arabic Language	اللغة العربية	Arabic	2								3	33	17	50	2.00	2.00	S
		4	Arch024	Mathematics II	الرياضيات-2	English	3	1					1		3	78	72	150	6.00	4.00	B
		5	Arch023	Advanced Computer Science	علوم الحاسوب المتقدمة	English	2								3	63	37	100	4.00	3.00	B
		6	UOK102	English Language	اللغة الانكليزية	English	3								3	48	27	75	3.00	3.00	S
		7													0		0	0.00	0.00		
Total								10	1	2	16	1	0	15	465	285	750	30	20.00		

Note: The student should complete 4 weeks of Summer Internships to fulfil the requirements of the Bachelor's degree

Structured SWL (hr/w) type	Module type		Module type	
	CL	Class Lecture	B	Basic learning activities
Lab	Laboratory	C	Core learning activity	SSWL: Structured SWL
Pr	Practical Training	S	Support or related learning activity	USSWL: Unstructured SWL
Tut	Tutorial	E	Elective learning activity	
Lect	Online lecture			
Sem	Seminar			

Note: Columns O, Q and R are progmaed, protected and should not be edited

المستوى الاول

مقررات الفصل الاول

نموذج وصف المادة الدراسية
التصميم المعماري

Module Information			
معلومات المادة الدراسية			
Module Title	Architectural design I		Module Delivery
Module Type	Core		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	Arch011		
ECTS Credits	10		
SWL (hr/sem)	250		
Module Level	UGx11 1	Semester of Delivery	1
Administering Department	Type Dept. Code	College	Type College Code
Module Leader	Name	e-mail	E-mail
Module Leader's Acad. Title	Dr. Haider Naji	Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	29/10/2023	Version Number	1.0

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

Module Aims, Learning Outcomes and Indicative Contents	
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	Preparing the student to enter the world of architecture intellectually, conceptually, and practically as a basic work base, and introducing him to the concept of architecture through learning about the principles of design, composition, the third dimension, architectural space, the human scale, the surroundings of the urban environment, and others. Developing the student's language of expression for these and other vocabulary. The subject also

	focuses on developing his artistic and compositional sense and the style of analytical-synthetic thinking, as well as developing his awareness and sensitivity to the natural and built environment and respect for it, starting with understanding and tasting the traditional urban environment and studying the formative, plastic and external relationships of its elements and components.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	
Indicative Contents المحتويات الإرشادية	<p>Indicative content includes the following.</p> <p><u>Part A - Composition Fundamentals</u> Introducing the basic principles of two-dimensional design: the concept of configuration, its elements, basic principles, and types of configurations.. [24 hrs]</p> <p><u>Part B - Color & texture in Composition</u> Review design configurations Including 2D corporate logo design. . [12 hrs]</p> <p><u>Part C - Composition and abstraction</u> The student's awareness and application of his imagination in abstracting shapes . [12 hrs]</p> <p><u>Part d - Diagramming 2d concept</u> Design according to the system . [12 hrs]</p> <p><u>Part e - 3D Composition</u> Entering the volume of a new variable in the composition, space, mass, and their expressive values system . 12 hrs</p>

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	
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Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	180	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	12
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	300	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	20
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	480		

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5,10	1,2
	Assignments	15	15% (15)	2,12	All
	Projects / Lab.	2	10% (10)	Continuous	All
	Report	ALL	5% (5)	13	2
Summative assessment	Midterm Exam	6hr	10% (10)	7	All
	Final Exam	6hr	50% (50)	16	All
Total assessment				Total assessment	100%(100Marks)

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

Week	Material Covered
Week 1	Viewing architecture in light of intellectual diversity and the arts. The role of the architect in improving the reality of the situation and as a specialty.
Week 2	Design elements: line, direction, shape, size, texture, light value, and color.
Week 3	Design principles: congruence, similarity, difference, balance, proportion, unity and harmony.
Week 4	Expressive form (types of shapes, methods of producing shapes) Space (types of spaces)
Week 5	Characteristics of the architect and his knowledge in light of the propositions of Vitruvius and Alberti
Week 6	A preliminary explanation of architectural trends (in theory and practice)
Week 7	The expressiveness of architectural designs and their reflection of intellectual trends in various places.
Week 8	The expressiveness of architectural designs and their reflection of intellectual trends in various places.
Week 9	A field visit to the historic Khan Al-Nakhila
Week 10	The expressiveness of architectural designs and their reflection of intellectual trends in various places.
Week 11	A general explanation of artistic trends throughout history and previous civilizations and respect for the human scale in architectural design.

Week 12	A general explanation of artistic trends throughout history and previous civilizations and respect for the human scale in architectural design.
Week 13	A general explanation of artistic trends throughout history and previous civilizations and respect for the human scale in architectural design.
Week 14	
Week 15	
Week 16	The Final Presentation

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

Week	Material Covered
Week 7	Day Sketch
Week 9	A field visit to the historic Khan Al-Nakhila
Week 10	Final presentation of studies and discussion
Week 12	First presentation
Week 14	Pre-final presentation Day sketch
Week 15	Final presentation
Week 7	

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts		Yes
Recommended Texts	Ching, Francis D. K., "Architectural Graphics", Fourth Edition, John Wiley & Sons inc., New York. Architectural design and construction elements are also known as Neuwirt. It was first published by German architect Ernst Neuvirt in 1936. شبيرين احسان شيرزاد- مبادئ الفن والعمارة	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.

نموذج وصف المادة الدراسية

الرسم المعماري

Module Information

معلومات المادة الدراسية

Module Title	Architectural Drawing		Module Delivery	
Module Type	Core		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input type="checkbox"/> Tutorial <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Practical <input type="checkbox"/> Seminar	
Module Code	Arch012			
ECTS Credits	4			
SWL (hr/sem)	100			
Module Level	UGx11 1	Semester of Delivery	1	
Administering Department	Architecture Engineering	College	College of Engineering	
Module Leader	Saba salih shalal	e-mail	saba.s@uokerbala.edu.iq	
Module Leader's Acad. Title	Teaching assistant	Module Leader's	T.A.	

		Qualification	
Module Tutor	-	e-mail	-
Peer Reviewer Name	Dr.haider naji	e-mail	Haider.n@uokerbala.edu.iq
Scientific Committee Approval Date	01/06/2023	Version Number	1.0

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

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims اهداف المادة الدراسية	<p>1- Developing students' abilities in engineering and manual drawing, starting with exercises for drawing vertical and horizontal lines, various geometric shapes, and curves.</p> <p>2- Stimulate the student's visual perception of shape, texture, sizes and their contrasts.</p> <p>3-Introducing how to derive different shapes and abstract them by analyzing the structure of the visual shape by referring to elementary geometric shapes such as the square, circle, and triangle.</p> <p>4- Developing the imagination in perceiving and understanding how three-dimensional blocks are formed, understanding the three-dimensional shape (isometric), changing viewing angles, and different projections, and sensing the mass and architectural formation through light, shadow, and different projections of lighting.</p> <p>5- Training the student to draw horizontal and vertical projections.</p>
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<ol style="list-style-type: none"> 1. Developing the student's ability to draw lines and surfaces 2. Sensitivity to the (Human Scale) 3. Identifying elementary geometric shapes and how they intersect within what the composition presents for the work. 4. Perceiving three-dimensional objects and drawing them on paper, giving a sense of the third dimension and the relationship between mass and space 5. Realize texture and texture through shade and shadows 6. Identifying three-dimensional shapes (isometrics) and projecting them 7. Recognizing the horizontal and vertical projections of architectural plans.
Indicative Contents	Indicative content includes the following.

المحتويات الإرشادية	<p>Part A - Geometric shapes Engineering shapes - Engineering drawing tools and methods of using them. Types of fonts in geometric and manual. How to write letters and numbers geometrically. Texture in geometric shapes Drawing scale. Methods of planning and shading with lines Value, degree of color and light. [12 hrs] <u>- Geometric processes</u> The importance of geometric operations for the student's imagination , Methods of drawing tangents .Draw an arc touching two circles .Ellipse . [9 hrs] <u>- Model workshop</u> architectural model making techniques, model training . [6 hrs]</p> <p>Part B - Geometric projection Introducing students to the principles and elements of geometric projection- Explaining projections and their importance in architecture- Meanings of lines in projections –Drawing isometrics from the three elevations . [15 hrs]</p> <p>Part C - Inking Drawing with ink pen with several types of lines- Drawing geometric formations with ink . [3 hrs]</p> <p>Part D -Architectural plans Drawing horizontal plans * ground floor *And other floors * And site plan ,Drawing architectural sections ,Drawing architectural elv. presentation in the section and the elv. . [21 hrs]</p> <p>Part E – Final project Building drawings have been selected , A hand drawing of the building is shown and presented in several stages , Schematic drawings Final submission of the project. [12 hrs]</p>
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Learning and Teaching Strategies

استراتيجيات التعليم والتعلم

Strategies	<ul style="list-style-type: none"> -Weekly practical exercises in class. -Home practical exercises. -Theoretical lectures and lectures power point
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Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	45	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	3
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	90	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	6
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	135		

Module Evaluation

تقييم المادة الدراسية

As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5, 10	LO #1, 2, 10 and 11
	Assignments	2	10% (10)	2, 12	LO # 3, 4, 6 and 7
	Projects / Lab.	1	10% (10)	Continuous	All
	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

Week	Material Covered
Week 1	Introduction - Engineering drawing tools and methods of using them. The difference between engineering, manual drawing and computer drawing. Types of fonts in geometric and manual.
Week 2	Geometric shapes : Definition of students: × Panel measurements and division. × How to write letters and numbers geometrically. × Geometric shapes.
Week 3	Texture in geometric shapes : Drawing scale. Methods of planning and shading with lines
Week 4	Value and tone scale : How to convert a scene into a 2D drawing.
Week 5	Geometric processes in engineering drawing : The importance of geometric processes for the student's imagination
Week 6	Geometric processes in engineering drawing : Draw an arc touching two circles A. From the inside. B. From outside C. From inside and outside
Week 7	Geometric processes in engineering drawing : Ellipse
Week 8	Model Making
Week 9	Model Making
Week 10	Geometric projection : Introducing students to the principles and elements of geometric projection
Week 11	Geometric projection : Explaining projections and their importance in architecture And the

	meanings of lines in projections
Week 12	Geometric projection
Week 13	Isometric
Week 14	Day Sketch
Week 15	Isometric
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

Week	Material Covered	
	Freehand	Architectural Drawing
Week 1	Training on types of fonts and their uses. An exercise related to line values in drawing	Training on: × Panel frame and information panel. × Drawing geometric lines. × An exercise related to line values in drawing
Week 2	Drawing geometric shapes manually. 2d Initial sensitivity as ratios.	Training on drawing a group of geometric shapes. Painting with frame and information in geometric font
Week 3	Draw a group of geometric shapes. (still life)	Training on drawing a group of geometric shapes while adding texture to them.
Week 4	Draw a set of cubes and shape them. Possible shading with lines Training in engineering drawing	Creating geometric shapes
Week 5	Manual drawing training Still Life	Training on drawing shapes such as pentagons and hexagons
Week 6	Manual drawing training People and trees, fast drawing while maintaining proportions, training in geometric drawing	Engineering operations
Week 7	Manual drawing training	Engineering operations training
Week 8	Techniques for making architectural models	Techniques for making architectural models
Week 9	Techniques for making architectural models	Techniques for making architectural models
Week 10	Exercises on drawing building elv.	Isometric projection exercises
Week 11	Exercises on drawing building elv.	Isometric projection exercises
Week 12	Exercises on drawing perspective interfaces	Isometric projection exercises
Week 13	Exercises on drawing building elv.	Isometric drawing exercises

Week 14	Day Sketch	
Week 15	Exercises on drawing perspective interfaces	Isometric drawing exercises

Learning and Teaching Resources

مصادر التعليم والتعلم

	Text	Available in the Library?
Required Texts	<ul style="list-style-type: none"> - Abdullah Al-Darisa, Dr. Muhammad, "Architectural Drawing", first edition, Arab Society Publishing Library, Amman, 2005. - Abdullah, Dr. Muhammad, "Architectural Display", Anglo-Egyptian Library. - Hamid, Muwafaq, "How to Draw Theoretically," Modern Library for Printing and Publishing, Beirut, Syria. 	Yes
Recommended Texts	Ching, Francis D. K., "Architectural Graphics", Fourth Edition, John Wiley & Sons inc., New York.	Yes
Websites		

Grading Scheme

مخطط الدرجات

Group	Grade	التقدير	Marks (%)	Definition
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نموذج وصف المادة الدراسية
علوم الحاسوب

Module Information			
معلومات المادة الدراسية			
Module Title	Computer Science		Module Delivery
Module Type	Support		<input type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	UOK105		
ECTS Credits	3		
SWL (hr/sem)	75		
Module Level	UGx11 1	Semester of Delivery	1
Administering Department	Type Dept. Code	College	Type College Code
Module Leader	Name	e-mail	E-mail
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification	M.Sc.
Module Tutor	Suhaib Abbas	e-mail	E-mail
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	01/06/2023	Version Number	1.0

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

Module Aims, Learning Outcomes and Indicative Contents	
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	1. To gain the necessary understanding of the basics of computing and information technology required in personal and professional life. 2. To develop the necessary skills to solve problems using computers 3. To understand the computer hardware and software 4. To gain an understanding of the basic computer components 5. To understand the basics of networks and the internet.

<p>Module Learning Outcomes</p> <p>مخرجات التعلم للمادة الداسية</p>	<ol style="list-style-type: none"> 1. To recognize the basic computer components and how they work together. 2. To recognize various input and output devices in a computer. 3. To understand different storage types in the computer. 4. To recognize various application software 5. To understand the role of the operating system in the computer. 6. To be able to use the internet for web browsing, email, etc. 7. To be able to use the Windows operating system for everyday needs. 8. To be able to use word processing and spreadsheet software. 9. To understand cloud based software such as Google Sheets, Docs, and Gmail
<p>Indiative Contents</p> <p>المحتويات الإرشادية</p>	<p>Introduction to Computers [1hrs]: In this lecture we talk about the definition of the computer, data, and information, the components of a computer and the advantages and disadvantages of using computers.</p> <p>The Components of the System Unit [2hrs]: In this lecture we introduce the system unit. We introduce the microchip. We describe the control unit and arithmetic and logic unit parts of the processor and explain the four machine cycles. Define bit and byte. and describe the various types of memory, RAM, and cache.</p> <p>Storage [2hrs]: In this lecture we introduce storage medium and devices such as hard disks, flash memories, Solid State Disks. We also introduce cloud storage.</p> <p>Input and Output [2hrs]: In this lecture we describe various input and output devices in a computer system.</p> <p>The Motherboard The ports and cables [1hr]: In this lecture we introduce the motherboard function, the ports of the computer and various cables used to connect to the computer.</p> <p>Operating System and Utility Programs [2hrs]: In this lecture we describe various operating system functions. We also introduce utility programs.</p> <p>Application Software [2hrs]: In this lecture, we identify the categories of application software, and describe the characteristics of the user interface. We also identify the key features of some business programs. Finally, we discuss web applications.</p> <p>Networks [1hrs]: In this lecture we discuss the components of a communication system, we differentiate among types of networks: LANs, MANs, WANs, network architectures and network topologies.</p> <p>The Internet and the World Wide Web [2hrs]: In this lecture, we introduce the various concepts related to the Internet and the world wide web. We will describe various broadband Internet connections. We will also explain the purpose of the web browser and how to use a search provider. Finally, we describe the website types and introduce e-mail</p>

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies

The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students. The labs are essential to teach the students how to use the Windows operating system, applications such as word and excel, and web-based applications such as Google Sheets and Docs.

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	2
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	75		

Module Evaluation

تقييم المادة الدراسية

As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	5% (5)	3, 10	All
	Assignments	2	5% (5)	Continuous	All
	Projects / Lab.	10	10% (10)	Continuous	All
	Report	0	0	-	-
Summative assessment	Midterm Exam	2 hr	30% (30)	5,12	All
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

Week	Material Covered
Week 1	Introduction to Computers
Week 2	The Components of the System Unit – The microchips
Week 3	The Components of the System Unit – The processor
Week 4	The Components of the System Unit – The memory and the buses
Week 5	Storage devices – Hard disk
Week 6	Storage devices – Flash memory and cloud storage
Week 7	Input and Output – Keyboard, mouse, and touch input
Week 8	Input and Output – Display (LCD, OLED), printers
Week 9	The Motherboard
Week 10	The ports and cables
Week 11	The Operating System
Week 12	The Utility Programs
Week 13	The Application Software
Week 14	Networks (LAN, MAN, WAN)
Week 15	The Internet and the World Wide Web
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

Week	Material Covered
Week 1	Computer Hardware
Week 2	Using web browsers and email (Gmail)
Week 3+4+5	Windows operating system
Week 6+7	Google Sheets and Docs tutorial
Week 8+9+10	Microsoft Word and Excel tutorial
Week 11+12	Microsoft PowerPoint tutorial
Week 13+14	How to write an academic report using Microsoft Word
Week 15	Summary and Exercises

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	<ul style="list-style-type: none"> How Computers Work (Ron White) Discovering Computers Fundamentals, Your Interactive Guide to the Digital World (Gary B. Shelly, Misty E. Vermaat) 	No
Recommended Texts	<ul style="list-style-type: none"> Information Technology, An Introduction for Today's Digital World. Complete A+ Guide to IT Hardware and Software 	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 (فيد 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.

نموذج وصف المادة الدراسية
الفيزياء

Module Information			
معلومات المادة الدراسية			
Module Title	Physics	Module Delivery	
Module Type	Basic	<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar	
Module Code	Arch013		
ECTS Credits	7		
SWL (hr/sem)	175		
Module Level	UGx11 1	Semester of Delivery	1
Administering Department	Mech. Eng. Dept.	College	College of Eng.
Module Leader	Muslim Muhsin Ali	e-mail	Muslim.m@uokerbala.edu.iq
Module Leader's Acad. Title	Asst. Professor	Module Leader's Qualification	Ph.D.
Module Tutor		e-mail	
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date	1/06/2023	Version Number	1.0

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

Module Aims, Learning Outcomes and Indicative Contents	
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	1. Understanding the fundamental principles of mechanical physics. 2. Developing a strong foundation in physics that students can build upon in future studies.
Module Learning Outcomes	1. Analyze the properties of forces, moments, couples, and resultants in 2D. 2. Analyze the properties of forces, moments, couples, and resultants in 3D

مخرجات التعلم للمادة الدراسية	<p>3. Solve equilibrium problems in 2D.</p> <p>4. Solve equilibrium problems in 3D.</p> <p>5. Understand basic concepts of the dynamics.</p>
<p>Indicative Contents المحتويات الإرشادية</p>	<p>Indicative content includes the following.</p> <ul style="list-style-type: none"> -The fundamental concepts necessary for the study of Physics. - The properties of forces, moments, couples, and resultants in 2D &3D -The equilibrium principles of structures. -The dynamic characteristics.

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

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

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	108	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	7
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	67	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	4
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	175		

Module Evaluation

تقييم المادة الدراسية

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

Total assessment	100% (100 Marks)		
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Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

Week	Material Covered
Week 1	Introduction to Physics and Basic Concepts
Week 2	Scalars and Vectors
Week 3	Scalars and Vectors
Week 4	Newton's Laws and Units
Week 5	Rectangular Components of force in 2D
Week 6	Moment and Couple in 2D
Week 7	Mid-term Exam + Resultants in 2D
Week 8	Rectangular Components of force in 3D
Week 9	Moment, Couple and Resultants in 3D
Week 10	Equilibrium in two dimensions
Week 11	Equilibrium in two dimensions
Week 12	Equilibrium in three dimensions
Week 13	Equilibrium in three dimensions
Week 14	Introduction to dynamics.
Week 15	Introduction to dynamics
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

Week	Material Covered
Week 1	Workshop A
Week 2	Workshop A
Week 3	Workshop B
Week 4	Workshop B
Week 5	Workshop C
Week 6	Workshop D
Week 7	Workshop E

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	<u>Engineering Mechanics STATICS J.L.Meriam And L.G.Kraige</u>	Yes
Recommended Texts	<u>Engineering Mechanics: Statics by Russell Hibbeler.</u>	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.

نموذج وصف المادة الدراسية
الرياضيات

Module Information			
معلومات المادة الدراسية			
Module Title	Mathematic I	Module Delivery	
Module Type	Basic learning	<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar	
Module Code	Arch014		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	UGx11 1	Semester of Delivery	1
Administering Department	Type Dept. Code	College	Type College Code
Module Leader	Professor : Emad Qasem Hussein	e-mail	emad.dujaily@uokerbala.edu.iq
Module Leader's Acad. Title	Professor	Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	01/06/2023	Version Number	1.0

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

Module Aims, Learning Outcomes and Indicative Contents	
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	The aims of a mathematics module are to provide students with an understanding of mathematical concepts, skills, and techniques that can be applied to a range of real-world problems. This includes topics such as An introductory class in the theory and techniques of differentiation and integration of algebraic and trigonometric functions. Additionally, the module aims to prepare students for future academic and professional pursuits that

	require mathematical proficiency.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<p>On successful completion of this module, students will be able to:</p> <ol style="list-style-type: none"> 1. Find the domain and range of a function and graphs. 2. Evaluate limits, and determine continuity and differentiability of functions. 3. Apply rules of calculus to solve engineering problems including differential equations. 4. Differential calculus, these concepts are used to analyze rates of change, optimization problems, and the behavior of functions in engineering applications. 5. Integration: Table of integrals, Rules of integration, Definite integrals, Area bounded by curves, Integration by parts, Integration by substitution and using partial fractions. 6. Student should use more than one method to solve the integration. 7. Express and evaluate a double and triple integral in terms of the Cartesian. 8. Calculate area, volume, and surface area of integral. 9. Application of Integration: Centres of mass, Moments of inertia.
Indicative Contents المحتويات الإرشادية	<p>The Indicative Contents of a Mathematics module will depend on the level and scope of the course. However, some common topics that may be covered in a mathematics module include:</p> <ol style="list-style-type: none"> 1- Arithmetic: Basic mathematical operations such as addition, subtraction, multiplication, and division. 2- Algebra: The study of mathematical symbols and the rules for manipulating these symbols to solve equations and represent real-world situations. 3- Geometry: The study of shapes, sizes, positions, and measurements of objects in space. 4- Calculus: The study of mathematical concepts such as limits, derivatives, and integrals. <p>Overall, the Indicative Contents of a Mathematics module aims to provide students with a comprehensive understanding of mathematical concepts and their applications in various fields of study.</p>

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	<p>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.</p>
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Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	78	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	6
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	72	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	4
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	150		

Module Evaluation

تقييم المادة الدراسية

As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5, 10	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	hr3	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

Week	Material Covered
Week 1	Functions: Domain and Range, Functions and their graphs, Trigonometric Functions
Week 2	Limits and Continuity: Limit of a Function and Limit Laws, One-Sided Limits Continuity, Limits Involving Infinity, Asymptotes of Graphs
Week 3	Limits and Continuity: Limit of a Function and Limit Laws, One-Sided Limits Continuity, Limits Involving Infinity, Asymptotes of Graphs
Week 4	Derivatives: Tangent Lines and the Derivative at a Point, The Derivative as a Function, Differentiation Rules, Derivatives of Trigonometric Functions, The Chain Rule, Implicit Differentiation, Linearization and Differentials.
Week 5	Derivatives: Tangent Lines and the Derivative at a Point, The Derivative as a Function, Differentiation Rules, Derivatives of Trigonometric Functions, The Chain Rule, Implicit Differentiation, Linearization and Differentials
Week 6	Point, The Derivative as a Function, Differentiation Rules, Derivatives of Trigonometric Functions, The Chain Rule, Implicit Differentiation, Linearization and Differentials.

Week 7	Functions, The Mean Value Theorem, Monotonic Functions and the First Derivative Test, Concavity and Curve Sketching, Applied Optimization, Antiderivatives
Week 8	Applications of Derivatives: Extreme Values of Functions, The Mean Value Theorem, Monotonic Functions and the First Derivative Test, Concavity and Curve Sketching, Applied Optimization, Antiderivatives
Week 9	Functions and the First Derivative Test, Concavity and Curve Sketching, Applied Optimization, Antiderivatives
Week 10	Theorem of Calculus, Indefinite Integrals and the Substitution Method, Definite Integral Substitutions and the Area Between Curves
Week 11	Integrals: The Definite Integral, The Fundamental Theorem of Calculus, Indefinite Integrals and the Substitution Method, Definite Integral Substitutions and the Area Between Curves
Week 12	Theorem of Calculus, Indefinite Integrals and the Substitution Method, Definite Integral Substitutions and the Area Between Curves
Week 13	Applications of Definite Integrals: Volumes using Cross-Sections, Volumes using Washer and Cylindrical Shells methods, Arc Length, Areas of Surfaces of Revolution, Work and Fluid Forces, Moments and Centers of Mass
Week 14	Applications of Definite Integrals: Volumes using Cross-Sections, Volumes using Washer and Cylindrical Shells methods, Arc Length, Areas of Surfaces of Revolution, Work and Fluid Forces, Moments and Centers of Mass
Week 15	Applications of Definite Integrals: Volumes using Cross-Sections, Volumes using Washer and Cylindrical Shells methods, Arc Length, Areas of Surfaces of Revolution, Work and Fluid Forces, Moments and Centers of Mass
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

Week	Material Covered
Week 1	Lab 1: Introduction to Agilent VEE and PSPICE
Week 2	Lab 2: Thévenin's / Norton's Theorem and Kirchhoff's Laws
Week 3	Lab 3: First-Order Transient Responses
Week 4	Lab 4: Second-Order Transient Responses
Week 5	Lab 5: Frequency Response of RC Circuits
Week 6	Lab 6: Frequency Response of RLC Circuits
Week 7	Lab 7: Filters

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	George B. Thomas Jr., "CALCULUS", 14th Ed	Yes

Recommended Texts	Erwin Kreyszig, "Advanced Engineering 10th Ed.1.Mathematics", 2.haum's Outline of College Mathematics, Fourth 3. Mary Attenborough, "Mathematics for .2Edition. Electrical Engineering and Computing", 1st Ed	No
Websites	Topics in Calculus -Wolfram Mathworld.	

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
<p>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.</p>				

مقررات الفصل الثاني

نموذج وصف المادة الدراسية
التصميم المعماري

Module Information			
معلومات المادة الدراسية			
Module Title	Architectural Design II	Module Delivery	
Module Type	Core	<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar	
Module Code	(Arch021)		
ECTS Credits	10		
SWL (hr/sem)	250		
Module Level	2UGx11	Semester of Delivery	2
Administering Department	Type Dept. Code	College	Type College Code
Module Leader	Dr.Haider Naji	e-mail	haider.n@uokerbala.edu.iq
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)	e-mail	haider.i@uokerbala.edu.iq
Peer Reviewer Name	Dr. Haider Ibrahim	e-mail	haider.i@uokerbala.edu.iq
Scientific Committee Approval Date	8/11/2023	Version Number	1.0

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	Architectural Design I	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	<p>Preparing the student to enter the world of architecture intellectually, conceptually, and practically as a basic work base, and introducing him to the concept of architecture through learning about the principles of design, composition, the third dimension, architectural space, the human scale, the surroundings of the urban environment, and others. Developing the student's language of expression for these and other vocabulary. The subject also focuses on developing his artistic and compositional sense and the style of analytical-synthetic thinking, as well as developing his awareness and sensitivity to the natural and built environment and respect for it, starting with understanding and tasting the traditional urban environment and studying the formative, plastic and</p>

	external relationships of its elements and components.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<ul style="list-style-type: none"> - Learn how to translate their concepts into an active design project that can be implemented on the ground by introducing architecture and architectural education in general and the most important capabilities that an architectural student must have, such as the ability to draw, imagine, and understand. - Introduction to design elements and the most important design principles for two-dimensional structures. - Introducing the application of design principles through three-dimensional formations.
Indicative Contents المحتويات الإرشادية	<p>Indicative content includes the following.</p> <p><u>Part A - Human Scale</u></p> <p>Recognizing designed spaces and their measurements as area and volume. By drawing plans for part of a building.</p> <p><u>Part B - Architecture within its urban context</u></p> <p>After studying the basic principles of design, the need for design to interact with its surrounding environment is emphasized here through a series of lectures and field visits.</p> <p>A kiosk project or part of a building.</p> <p><u>Part C - The final project</u></p> <p><u>Design a small building with a specific function</u></p> <p>Applying all the summary of the lesson in the final project, which represents a summary of everything the student was exposed to in the first stage.</p> <p>Project stages:</p> <ul style="list-style-type: none"> - Study the location, surroundings, and various environmental and contextual influences. - Study the effectiveness in an in-depth manner from functional aspects and expressive and symbolic requirements. -Architectural form studies. - The design idea and how it was developed. - Formation and development of the design idea. - Emphasis on building materials and the structural system.

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	<p>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 studio halls, Library, Visual means (data show), The lecturer giving detailed theoretical lectures, Participation of students as groups by making illustrated reports on international architects, Analysis of students' work by giving group criticism and individual criticism, The lecturer presents detailed examples that include all</p>
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aspects of architectural design principles

Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	180	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	12
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	70	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	4.5
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	250		

Module Evaluation

تقييم المادة الدراسية

As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5, 10	1, 2
	Assignments	15	15% (15)	2, 12	All
	Projects / Lab.	2	10% (10)	Continuous	All
	Report	All	5% (5)	13	2
Summative assessment	Midterm Exam	6 hr	10% (10)	7	All
	Final Exam	6hr	50% (50)	16	All
Total assessment				Total assessment	100% (100 Marks)

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

Week	Material Covered
Week 1	Human Scale: Identify designed spaces and their measurements as area and volume. By drawing plans for part of a building
Week 2	Day Sketch
Week 3	Architecture within its urban context
Week 4	The importance of studying the relationship between architectural design and the external surroundings adjacent to the building
Week 5	
Week 6	The final project
Week 7	Design a small building with a specific function

Week 8	Activities are simple and represent a collection of a specific number of spaces with different functions.
Week 9	
Week 10	
Week 11	
Week 12	
Week 13	
Week 14	Day sketch
Week 15	Final submission test for the project

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

Week	Material Covered
Week 1,2	Field exercise - groups Documenting the building and assembling the work of the groups among themselves
Week 3	Start a project and visit the site. Site analysis and the beginning of the idea
Week4	Initial submission Submission before the final
Week5	Final submission
Week 6	Start a project
Week 7	Study of the site and its determinants, study of the project's function.
Week 8	Space organization and functional relationships. Functional study of the elected project
Week 9	Complementing various studies- Final presentation of studies and discussion
Week 10	Analyzing the site and functional requirements...and preparing to develop the initial idea.
Week 11	Concept
Week 12	Development of the initial idea - study of mass formation
Week 13	Initial submission
Week 14	Group and individual criticism
Week 15	Block model + floor plan + section + block façade

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts		Yes
Recommended Texts	Ching, Francis D. K., "Architectural Graphics", Fourth Edition, John Wiley & Sons inc., New York. Architectural design and construction elements are also known as Neuwirt. It was first published by German architect Ernst Neuvirt in 1936. Shirin Ihsan Shirzad - Principles of Art and Architecture	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.

نموذج وصف المادة الدراسية
الرسم المعماري

Module Information			
معلومات المادة الدراسية			
Module Title	Architectural Drawing II	Module Delivery	
Module Type	Core	<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar	
Module Code	Arch022		
ECTS Credits	5		
SWL (hr/sem)	125		
Module Level	UGx11 2	Semester of Delivery	2
Administering Department	Architectural Engineering	College	College of Engineering
Module Leader	Saba salih shalal	e-mail	saba.s@uokerbala.edu.iq
Module Leader's Acad. Title	Teaching assistant	Module Leader's Qualification	T.A.
Module Tutor	-	e-mail	-
Peer Reviewer Name	Faylaq Fathi M. Ali	e-mail	Faylaq.f@uokerbala.edu.iq
Scientific Committee Approval Date	01/06/2023	Version Number	1.0
Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	Architectural Drawing	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Aims اهداف المادة الدراسية	1- Developing students' abilities in engineering and manual drawing, starting with exercises for drawing vertical and horizontal lines, various geometric shapes, and curves. 2- Stimulate the student's visual perception of shape, texture, sizes and their contrasts.
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	<p>3-Introducing how to derive different shapes and abstract them by analyzing the structure of the visual shape by referring to elementary geometric shapes such as the square, circle, and triangle.</p> <p>4- Developing the imagination in perceiving and understanding how three-dimensional blocks are formed, understanding the three-dimensional shape (isometric), changing viewing angles, and different projections, and sensing the mass and architectural formation through light, shadow, and different projections of lighting.</p> <p>5- Training the student to draw horizontal and vertical projections.</p>
<p>Module Learning Outcomes مخرجات التعلم للمادة الدراسية</p>	<p>8- Developing the student's ability to draw lines and surfaces</p> <p>9- Sensitivity to the (Human Scale)</p> <p>10- Identifying elementary geometric shapes and how they intersect within what the composition presents for the work.</p> <p>11- Perceiving three-dimensional objects and drawing them on paper, giving a sense of the third dimension and the relationship between mass and space</p> <p>12- Realize texture and texture through shade and shadows</p> <p>13- Identifying three-dimensional shapes (isometrics) and projecting them</p> <p>14- Recognizing the horizontal and vertical projections of architectural plans.</p>
<p>Indicative Contents المحتويات الإرشادية</p>	<p>Indicative content includes the following.</p> <p><u>Part A - Geometric shapes</u> Engineering shapes - Engineering drawing tools and methods of using them. Types of fonts in geometric and manual. How to write letters and numbers geometrically. Texture in geometric shapes Drawing scale. Methods of planning and shading with lines Value, degree of color and light. [12 hrs]</p> <p><u>- Geometric processes</u> The importance of geometric operations for the student's imagination , Methods of drawing tangents .Draw an arc touching two circles .Ellipse . [9 hrs]</p> <p><u>- Model workshop</u> architectural model making techniques, model training . [6 hrs]</p> <p><u>Part B - Geometric projection</u> Introducing students to the principles and elements of geometric projection- Explaining projections and their importance in architecture- Meanings of lines in projections –Drawing isometrics from the three elevations . [15 hrs]</p> <p><u>Part C - Inking</u> Drawing with ink pen with several types of lines- Drawing geometric formations with ink . [3 hrs]</p> <p><u>Part D -Architectural plans</u> Drawing horizontal plans * ground floor *And other floors * And site plan ,Drawing architectural sections ,Drawing architectural elv. presentation in the</p>

	<p>section and the elv. . [21 hrs]</p> <p>Part E – Final project</p> <p>Building drawings have been selected , A hand drawing of the building is shown and presented in several stages , Schematic drawings Final submission of the project. [12 hrs]</p>
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Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	<p>-Weekly practical exercises in class.</p> <p>-Home practical exercises.</p> <p>-Theoretical lectures and lectures power point</p>
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Student Workload (SWL)

الحمل الدراسي للطلاب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطلاب خلال الفصل	63	Structured SWL (h/w) الحمل الدراسي المنتظم للطلاب أسبوعيا	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطلاب خلال الفصل	62	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطلاب أسبوعيا	4
Total SWL (h/sem) الحمل الدراسي الكلي للطلاب خلال الفصل	125		

Module Evaluation

تقييم المادة الدراسية

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

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

Week	Material Covered
Week 1	Ink drawing Drawing with an ink pen using several types of lines
Week 2	Model drawing model project material Architectural Design Model
Week 3	Visiting a designer building to learn about the building and its building materials as an introduction to understanding its plans
Week 4	Architectural plans
Week 5	Learn about drawing horizontal charts:
Week 6	* ground floor *And other floors * And site plan
Week 7	Architectural plans: Learn about drawing architectural sections
Week 8	Architectural plans: Learn about drawing architectural elv.
Week 9	Architectural plans: Learn how to display them in the plan
Week 10	Architectural plans: Learn how to appear in the section and elv.
Week 11	Day Sketch
Week 12	A field visit to a heritage building and measuring it to document it with a manual drawing exercise
Week 13	Drawings of the building that was visited as a reality, with demonstration and presentation in several stages
Week 14	
Week 15	

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

Week	Material Covered	
	Free hand	Architectural Drawing
Week 1	Hand drawing with ink Adjusting the proportions of shapes	Assignments to draw geometric formations with ink
Week 2	Drawing more complex and diverse geometric models, to develop the visual ability to create different types of geometric	Drawing more complex and diverse geometric models, to develop the visual ability to create different types of geometric formations.

	formations.	
Week 3	Manual drawing exercise in the building Single vanishing point perspective	It is possible to view set plans for a building
Week 4	- Hand drawing exercise , Two vanishing	Draw a simple plan that includes symbols for horizontal architectural plans, furniture, the rest of the floors, and the site plan Additional exercises
Week 5	point perspective , Hand drawing exercise ,	
Week 6	Three vanishing points , Hand drawing exercise ,	
Week 7	Hand drawing exercise	Drawing exercises in a building section
Week 8	Freehand drawing exercise for facades with shade and shadows.	Additional exercises for drawing facades with shading
Week 9	Freehand drawing exercise for facades with shade and shadows.	Show in the horizontal plan and site plan
Week 10	Facade drawing exercise for an architectural project	Sketch the interface of the current design project
Week 11	Day Sketch	
Week 12	A field visit to a heritage building and measuring it to document it with a manual drawing exercise	
Week 13	Manual drawing of the building	Schematic drawings
Week 14	Manual drawing of the building	
Week 15	Final submission of the project	

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	<ul style="list-style-type: none"> - Abdullah Al-Darisa, Dr. Muhammad, “Architectural Drawing”, first edition, Arab Society Publishing Library, Amman, 2005. - Abdullah, Dr. Muhammad, “Architectural Display”, Anglo-Egyptian Library. - Hamid, Muwafaq, “How to Draw Theoretically,” Modern Library for Printing and Publishing, Beirut, Syria. 	Yes

Recommended Texts	Ching, Francis D. K., "Architectural Graphics", Fourth Edition, John Wiley & Sons inc., New York.	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.

نموذج وصف المادة الدراسية
الرياضيات

Module Information معلومات المادة الدراسية			
Module Title	Mathematics II	Module Delivery	
Module Type	Basic learning	<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar	
Module Code	Arch024		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	UGx11 1		
Administering Department		College	Engineering College
Module Leader	Professor : Emad Qasem Hussein	e-mail	emad.dujaily@uokerbala.edu.iq
Module Leader's Acad.		Module Leader's Qualification	

Title			
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	1/6/2023	Version Number	1.0

Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

Prerequisite module	Mathematics I	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 aims of a mathematics module are to provide students with an understanding of mathematical concepts, skills, and techniques that can be applied to a range of real-world problems. This course aims to introduce the concepts of calculus, complex numbers, vectors, and linear algebra. Additionally, the module aims to prepare students for future academic and professional pursuits that require mathematical proficiency.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	By the end of this module the student should be able to: <ol style="list-style-type: none"> 1. Use asymptotic, first and second derivatives to graph functions. 2. Apply advanced rules/techniques of integration to compute integrals. sketch graphs of functions; approximation of functions. 3. Describe the polar coordinate system. 4. Convert from rectangular coordinates to polar coordinates. 5. Apply matrix techniques and elementary theory to problem in engineering. 6. Solve systems of linear equations and find the inverse of a matrix. 7. Perform the basic algebra operation of vectors. 8. Evaluate the scalar and vector product of two vectors. 9. Evaluate the gradient, divergence and curl of various scalar and vector fields. 10. Complex Numbers: Algebra of complex numbers, Solution of polynomial equations with complex roots, Argand Diagrams, Polar form of complex numbers, Exponential form of complex numbers, and Series expansion of trigonometric and exponential functions, De Moivre's theorem.
Indicative Contents المحتويات الإرشادية	The Indicative Contents of a Mathematics module will depend on the level and scope of the course. However, some common topics that may be covered in a

	<p>mathematics module include:</p> <ol style="list-style-type: none"> 1. Arithmetic: Basic mathematical operations such as addition, subtraction, multiplication, and division. 2. Algebra: The study of mathematical symbols and the rules for manipulating these symbols to solve equations and represent real-world situations. 3. Geometry: The study of shapes, sizes, positions, and measurements of objects in space. 4. Calculus: The study of mathematical concepts such as limits, derivatives, and integrals. <p>Overall, the Indicative Contents of a Mathematics module aims to provide students with a comprehensive understanding of mathematical concepts and their applications in various fields of study.</p>
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Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

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

الحمل الدراسي للطلاب

Structured SWL (h/sem) الحمل الدراسي المنتظم للطلاب خلال الفصل	78	Structured SWL (h/w) الحمل الدراسي المنتظم للطلاب أسبوعيا	6
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطلاب خلال الفصل	72	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطلاب أسبوعيا	4
Total SWL (h/sem) الحمل الدراسي الكلي للطلاب خلال الفصل	150		

Module Evaluation

تقييم المادة الدراسية

As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5, 10	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	2hr	10% (10)	7	LO # 1-7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

Week	Material Covered
Week 1 Week 2 Week 3	Transcendental Functions: Inverse Functions and Their Derivatives, Natural Logarithms, Exponential Functions, Indeterminate Forms and L'Hôpital's Rule, Inverse Trigonometric Functions, Hyperbolic Functions and their inverse.
Week 4 Week 5	Integration Techniques: Integration by Parts, Trigonometric Integrals, Trigonometric Substitutions, Partial Fractions, Improper Integrals.
Week 6	Polar Coordinates: Polar Coordinates system, Graphing Polar Coordinate Equations, Areas and Lengths in Polar Coordinates
Week 7 Week 8 Week 9	Matrices and Determinants: Definitions, Properties and operations, Determinant, Inverse of a matrix, Solution of linear system equations, Eigenvalues and Eigenvectors.
Week 10 Week 11 Week 12	Vector Theory: Three-Dimensional Coordinate Systems, Representation of vectors in space, unit vectors, Scalar Product, Vector Product, Lines and Planes in Space, Vector Function.
Week 13 Week 14 Week 15	Complex Numbers: Complex numbers and operations, Solution of quadratic equations, The argand diagram, Polar form of a complex number, Demoiver's theorem.
Week 16	Preparatory week before the final Exam

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	George B. Thomas Jr., "CALCULUS", 14 th Ed	Yes
Recommended Texts	<ol style="list-style-type: none"> 1. Erwin Kreyszig, "Advanced Engineering Mathematics", 10th Ed. 2. Schaum's Outline of College Mathematics, Fourth Edition. 3. Mary Attenborough, "Mathematics for Electrical Engineering and Computing", 1st Ed. 	No
Websites	Topics in a Calculus -Wolfram Mathworld.	

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.

نموذج وصف المادة الدراسية علوم الحاسوب المتقدمة

Module Information			
معلومات المادة الدراسية			
Module Title	Advanced Computer Science		Module Delivery
Module Type	Core		<input type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	Arch023		
ECTS Credits	4		
SWL (hr/sem)	100		
Module Level	UGx11 1	Semester of Delivery	
Administering Department	Type Dept. Code	College	Type College Code
Module Leader	Name	e-mail	E-mail
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification	M.Sc.

Module Tutor	Suhaib Abbas	e-mail	E-mail
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	01/06/2023	Version Number	1.0

Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Aims أهداف المادة الدراسية	<ol style="list-style-type: none"> 1. To Enable students to obtain knowledge and understanding and expand their imagination to perceive shapes, formations and relationships 2. To develop design problem-solving skills 3. Enabling the student to gain primitive knowledge of shapes and configurations from the two-dimensional stage to the three-dimensional stage, models and programs, which contribute to facilitating the design task for the student.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<ol style="list-style-type: none"> 1. Learn how to deal with shapes and the relationships between them 2. Recognizing proportions and proportions of shapes 3. Learn how architectural configurations work 4. How to deal between two-dimensional and three-dimensional shapes 5. How to import and export with other programs 6. Identify the relationship between the SKETCHUP program and other programs. 7. The plugin bars and its role in style builder 8. The plugin bars and its role in Descriptive geometry 9. The relationship of the program to parametric design
Indicative Contents المحتويات الإرشادية	<ul style="list-style-type: none"> • Introduction to Sketchup [3 hrs] • The capabilities of the program with applied examples [2 hrs] <p>Practical examples of the program's applications and benefits in the architectural design lesson [1 hrs]</p>

- 3D toolbar and similar applications. [3 hrs]
- Converting 2d to 3d and Similar applications [5 hrs]
- Materials and output 8 hrs.

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies

The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their 3D modelling skills. This will be achieved through classes and tutorials

Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	63	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	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

As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5, 10	LO #1, 2
	Assignments	2	10% (10)	2, 12	LO # 3, 4, 5
	Projects / Lab.	1	20% (10)	Continuous	All
	Report	0	0	0	0
Summative assessment	Midterm Exam	2 hr	10% (10)	7	LO # 1-6
	Final Exam	2hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

Week	Material Covered
Week 1	Introduction to sketchup and Install and activate the program and specify the required

	parameters
Week 2	The capabilities of the program with applied examples
Week 3	2d toolbar and similar application (getting started) (standard) (large toolbar)
Week 4	2d toolbar and similar application (drawing) (measurement)
Week 5	2d toolbar and similar application (edit) (style) (principal) (warehouse)
Week 6	3D toolbar and similar application (getting started)and (edit) (push& pull)
Week 7	3D toolbar and similar application (views) (section) (construction)
Week 8	3D toolbar and similar application (solid tool) (shadow) (location)
Week 9	Converting 2d to 3d and similar application (push& pull & intersect& union& subtract& trim& split)
Week 10	Converting 2d to 3d and similar application (default tray)
Week 11	Converting 2d to 3d and similar application(component)
Week 12	materials and output (martials, styles, tags)
Week 13	materials and output (camera, extension)
Week 14	Import and export from and to related programs (AutoCAD +3ds max + Revit + lomin)
Week 15	Explaining how to add, install and apply the plugins tools (v ray utilities)
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

Week	Material Covered
Week 1+2	Lab: Introduction to sketchup and Install and activate the program and specify the required parameters and The capabilities of the program with applied examples
Week 3+4+5	Lab: Apply the (2d) tools while making shapes
Week 6+7+8	Lab: Apply the (3d) tools while making shapes
Week 9+10+11	Lab: Converting 2d to 3d and similar application
Week 12+13	Lab: materials and output
Week14	Lab: Import and export from and to related programs (autocad +3ds max+revit+lomin)
Week 15	Lab: Explaining how to add, install and apply the plugins tools

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	SketchUp & Layout for Architecture: The Step by Step Workflow of Nick Sonder (PDF)	No
Recommended Texts	The SketchUp Workflow for Architecture: Modeling Buildings, Visualizing Design, and Creating Construction Documents with SketchUp Pro and Layout (PDF)	No
Websites	https://3dwarehouse.sketchup.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.

نموذج وصف المادة الدراسية
اللغة العربية

Module Information			
معلومات المادة الدراسية			
Module Title	اللغة العربية	Module Delivery	
Module Type	Support	<input type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar	
Module Code	UOK021		
ECTS Credits	2		
SWL (hr/sem)	50		
Module Level	UGx11 2	Semester of Delivery	1
Administering Department	UOKERBALA	College	GY
Module Leader	ضحى ثامر محمد	e-mail	dhuha.th@uokerbala.edu.iq
Module Leader's Acad. Title	LEAT	Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	اسيل عباس حسين	e-mail	E-mail aseel.a@uokerbala.edu.iq
Scientific Committee Approval Date	17/06/2023	Version Number	1.0

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

Module Aims, Learning Outcomes and Indicative Contents	
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	<ul style="list-style-type: none"> • معرفة أساسيات ومنشأ اللغة العربية • تنمية المهارات الفكرية للطالب لتمكنه من معرفة مرحلة التطور اللغوي وأهم القواعد الإملائية. • بناء طلبة قادرين على التنافس مع التخصصات الأخرى من حيث السلامة اللغوية • حث الطالب على إتقان الكتابة الصحيحة التي تفيده في الخطابات الرسمية

<p>Module Learning Outcomes</p> <p>مخرجات التعلم للمادة الدراسية</p>	<ul style="list-style-type: none"> • أفهام وتعليم الطالب اساسيات ومنتشأ اللغة العربية واهم القواعد النحوية. • تمكين الطلبة من الحصول على المعرفة والفهم في كتابة الاملائية الصحيحة. • افهام الطالب اساليب التفكير الهادف لحل المشاكل اللغوية التي من شأنها أن تحرف المعنى الدلالي • تمكين الطلبة من الحصول على المعرفة والفهم اللغوي • تمكين الطالب لكسب المعرفة البدائية في كيفية نشوء اللغة عامة واللغة العربية خاصة
<p>Indicative Contents</p> <p>المحتويات الإرشادية</p>	<ul style="list-style-type: none"> • تعريف مهم لأهمية اللغة العربية ونشأتها • شرح علوم اللغة العربية المتعددة • تزويد الطلاب بمهارة تعريف متغيرات العلوم اللغوية والأساليب الكتابية والاملائية في الدراسة الجامعية • شرح مهارة الكتابة الاملائية وأهم الحيل اللغوية التي ممكن أن يتبعها الطالب للتخلص من المأزق الكتابي . • تزويد الطالب بمهارات استخدام المترادفات اللغوية في الخطابات الرسمية

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

<p>Strategies</p>	<ul style="list-style-type: none"> • الكتاب المنهجي والمحاضرات. • المكتبة. • وسائل العرض المرئية (data show). • مواقع تعليمية في الشبكة الدولية. • يتم مشاركة الطلبة خلال المحاضرة بحل بعض المشاكل اللغوية • يقوم التدريسي بإلقاء محاضرات تفصيلية نظرية. • يقوم التدريسي بعرض امثلة تفصيلية تشمل كل جوانب المفاهيم اللغوية المطروقة
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Student Workload (SWL)

الحمل الدراسي للطلاب محسوب لـ ١٥ أسبوعا

<p>Structured SWL (h/sem)</p> <p>الحمل الدراسي المنتظم للطلاب خلال الفصل</p>	<p>33</p>	<p>Structured SWL (h/w)</p> <p>الحمل الدراسي المنتظم للطلاب أسبوعيا</p>	<p>2</p>
<p>Unstructured SWL (h/sem)</p> <p>الحمل الدراسي غير المنتظم للطلاب خلال الفصل</p>	<p>17</p>	<p>Unstructured SWL (h/w)</p> <p>الحمل الدراسي غير المنتظم للطلاب أسبوعيا</p>	<p>1.13</p>
<p>Total SWL (h/sem)</p> <p>الحمل الدراسي الكلي للطلاب خلال الفصل</p>	<p>50</p>		

Module Evaluation

تقييم المادة الدراسية

As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	اختبارات يومية مفاجئة	2	(5%)5	5, 10	LO #3, 5, 6 and 4
	تقارير	2	(5%)5	4, 12	LO # 2, 4, 6 and 7
	تفاعل الطالب العلمي داخل الصف الدراسي.	1	(5%)5	Continuous	All
	اختبار نصف سنوي	1	(20%)20	13	LO # 5, 8 and 3
Summative assessment	الحضور الدائم للطالب	2 hr	(5%)5		ALL
	Final Exam	3hr	(60%)60	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

Week	Material Covered
Week 1	مقدمة عن نشأة اللغة العربية واهم الظواهر اللغوية
Week 2	اقسام الكلام واهم تحولات الكلام الاملائية
Week 3	الاعجاز القرآني
Week 4	التطور الدلالي للغة
Week 5	التفكير اللغوي وإرساء قواعد اللغة العربية
Week 6	لغة اكلوني البراغيث ،وهي ظاهرة لغوية تبحث في علامات الفعل بوجود فاعل ثاني
Week 8	سورة الإخلاص دراسة تحليلية لغوية
Week 9	دراسات بيانية لغوية
Week 10	الكتابة الاملائية الضاد والظاء
Week 11	معرفة الحروف التي تحذف من الكلمة وأخرى تزداد
Week 12	كتابة العدد والمعدود وطرق استعمالها
Week 13	توظيف علامات الترقيم في الخطابات الرسمية
Week 14	طريقة كتابة التاء المفتوحة والتاء المربوطة والتاء المربوطة
Week 15	طريقة كتابة الهمزة في اللغة العربية بانواعها وحالاتها كافة
Week 16	الاختبار النهائي

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	1. أسس علم اللغة ، ماريو باي ، ترجمة احمد مختار 2. تاريخ علم اللغة منذ نشأتها حتى القرن العشرين ، جورج مونان ، ترجمة بدر الدين القاسم 3. فقه اللغة واسرار العربية ، أبو منصور الثعالبي ، تحقيق : مهدي عبد الرزاق / دار احياء التراث العربي	نعم
Recommended Texts	جميع الكتب اللغوية الرصينة التي لها علاقة باللغة العربية وعلومها.	نعم
Websites	متابعة المواقع الالكترونية العلمية والفيديوات التعليمية على مواقع الانترنت	

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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نموذج وصف المادة الدراسية
اللغة الإنكليزية

Module Information			
معلومات المادة الدراسية			
Module Title	English Language		Module Delivery
Module Type	Basic learning activities		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	UOK102		
ECTS Credits	3		
SWL (hr/sem)	75		
Module Level	UGx11 1	Semester of Delivery	
Administering Department	ENG	College	ENG
Module Leader	NA	e-mail	NA
Module Leader's Acad. Title	NA	Module Leader's Qualification	NA
Module Tutor	NA	e-mail	NA
Peer Reviewer Name	NA	e-mail	NA
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	1. To review essential grammar of the language. 2. To develop writing skills in engineering topics with focus on enhancing students' abilities to deliver ideas clearly according to academic writing structure, including introduction paragraph, body paragraphs and a conclusion.

	<ol style="list-style-type: none"> 3. To improve students' reading and comprehension skills in engineering topics, especially in prosthetics and orthotics engineering, and help them extract relevant information and summarize key points accurately. 4. To enhance students' vocabulary in engineering topics, through reading and listening activities. 5. To improve students' ability to listen effectively to different listening materials in engineering topics, understand the basic ideas, and summarize key points. 6. To improve students' ability to speak and present ideas in front of the class. 7. To enhance students' ability to engage and participate in classes through group reading or discussion.
<p style="text-align: center;">Module Learning Outcomes</p> <p>مخرجات التعلم للمادة الدراسية</p>	<ol style="list-style-type: none"> 1. Students should be able to compose correct sentences according to the language grammar. 2. Students should be able to deliver well-written reports that meet the standards expected in the engineering field. 3. Students should be able to comprehend engineering documents, research papers, and manuals effectively. 4. Students should be able to understand and use technical vocabulary accurately and appropriately in their academic and professional settings. 5. Students should be able to listen to English listening materials in engineering field easily. 6. Students should be able speak in English and present ideas in public. 7. Students should be able to engage in groups and work in a team environment.
<p style="text-align: center;">Indicative Contents</p> <p>المحتويات الإرشادية</p>	<p><u>Part A – Review Grammar and Language Accuracy</u></p> <ul style="list-style-type: none"> • Sentence structures and verb tenses in engineering contexts • Subject-verb agreement and word order • Common grammatical errors and their corrections. [8 hrs] <p><u>Part B – Reading Comprehension</u></p> <ul style="list-style-type: none"> • Reading and understanding simple technical texts and articles • Skimming and scanning techniques for technical information • Identifying main ideas and key details in engineering materials [8 hrs] <p><u>Part C – Technical Vocabulary and Terminology:</u></p> <ul style="list-style-type: none"> • Vocabulary building exercises and activities • Application of technical vocabulary in writing and speaking tasks [4 hrs] <p><u>Part D – Writing Skills</u></p>

	<ul style="list-style-type: none"> • Writing short paragraphs and descriptions of engineering processes • Constructing coherent sentences and organizing ideas • Introduction to technical report writing and documentation. [8 hrs] <p><u>Part E – Listening and Comprehension Skills</u></p> <ul style="list-style-type: none"> • Understanding spoken instructions and directions • Listening to daily conversation and short stories • Extracting key information from audio materials [8 hrs] <p><u>Part F – Speaking Skills</u></p> <ul style="list-style-type: none"> • Participating in group discussions • Practicing effective communication in team projects [7 hrs] <p><u>Part G – Basic Communication Skills:</u></p> <ul style="list-style-type: none"> • Greetings, introductions, and social interactions • Describing objects, processes, and diagrams [7 hrs]
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Learning and Teaching Strategies استراتيجيات التعلم والتعليم
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Strategies	<ul style="list-style-type: none"> • Strategies that are used in delivering this module is to train the students on reading, listening and writing, and that is achieved through class exercises and assignments to improve those skills. • Communicative strategy: Encourage students to engage in authentic language use through pair and group work, discussions, role-plays, and real-life engineering scenarios. • Multimodal Instruction: Utilize a variety of teaching resources and materials, including audiovisual materials, interactive online platforms. Incorporate visual aids, diagrams, and multimedia tools to enhance comprehension and engage visual and auditory learners. • Authentic Materials: Incorporate authentic materials such as engineering articles, technical manuals, and industry reports to expose students to real-world language use in engineering contexts. This helps students develop language skills and domain-specific knowledge simultaneously. • Formative Assessment: Implement regular formative assessments, such as quizzes, short writing assignments, and oral presentations, to monitor students' progress and provide timely feedback. Use assessment tasks to gauge language development and target areas for improvement.
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- Self-Reflection and Self-Assessment: Encourage students to reflect on their language learning progress, set goals, and assess their own language proficiency. Promote self-directed learning by providing self-assessment tools and encouraging students to seek opportunities for autonomous language practice.

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	15
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	27	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	9
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	75		

Module Evaluation

تقييم المادة الدراسية

As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	5% (10)	5, 10	LO #1 and 2
	Assignments	4	3% (12)	2, 4, 6, 8, 10, 12, and 14	All
	Report	1	6% (6)	1, 3, 5, 7, 9, 11, 13 and 15	All
	Onsite Assignments	4	3%(12)	1-7	All
Summative assessment	Midterm Exam	3 hr	10% (10)	7	All
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

Week	Material Covered
Week 1	<p>1. It's a wonderful world!</p> <p>2. Grammar: Auxiliary verbs, naming tenses, questions and negative.</p> <p>Vocabulary: Social expressions, sport and Leisure.</p> <p>Reading: Wonders of the modern world.</p> <p>Writing: Topic sentences.</p> <p>Listening: My wonders exercise.</p>
Week 2	<p>3. Get happy!</p> <p>Grammar: Present tenses, simple and continuous, and present passive.</p> <p>Vocabulary: Numbers and dates, money and fractions.</p> <p>Reading: The clown doctor.</p> <p>Writing: Developing paragraphs with descriptive details.</p> <p>Listening: Sports exercise.</p>
Week 3	<p>4. Telling tales</p> <p>Grammar: Past tenses, past simple, continuous, and perfect, and past passive.</p> <p>Vocabulary: Art and Literature.</p> <p>Reading: The painter and the Writer.</p> <p>Writing: Using word maps to brainstorm.</p> <p>Listening: Books and films exercise.</p>
Week 4	<p>5. Doing the right thing</p> <p>Grammar: Modal verbs – obligation and permission.</p> <p>Reading: A world guide to good manners.</p> <p>Vocabulary: Nationality words, countries and adjectives.</p> <p>Writing: Review of descriptive vocabulary.</p> <p>Listening: Come round to my place exercise.</p>
Week 5	<p>6. On the move</p> <p>Grammar: Future forms – going to, will, and present continuous.</p> <p>Reading: My kind of holidays.</p> <p>Vocabulary: the weather, travelling around.</p>
Week 6	<p>7. I just love it!</p> <p>Grammar: Questions with like and verb patterns.</p> <p>Reading: Global Pizza- the history of the world's most famous food.</p> <p>Vocabulary: Describing food, cities and people.</p> <p>Writing: Paragraph explaining cause and effect/ result.</p> <p>Listening: New York and London exercise.</p>
Week 7	<p>8. The world of work</p> <p>Grammar: Present perfect, and present perfect passive.</p> <p>Reading: Dream jobs.</p>

	<p>Vocabulary: Phrasal verbs, on the phone.</p> <p>Writing: Expressing personal feelings about problems.</p> <p>Listening: The busy life of a retired man.</p>
Week 8	<p>9. Just imagine</p> <p>Grammar: Conditionals, first and second conditionals, and time clauses.</p> <p>Vocabulary: Base and strong adjectives.</p> <p>Reading: Who wants to be a millionaire.</p> <p>Writing: Using time expressions: after, before, and when.</p> <p>Listening: Who wants to be a millionaire exercise.</p>
Week 9	<p>10. Getting on together</p> <p>Grammar: Modal verbs – Probability and possibility.</p> <p>Vocabulary: character adjectives, agreeing and disagreeing.</p> <p>Reading: The man who planted trees.</p> <p>Writing: Writing about causes and effect relationships.</p> <p>Listening: Brothers and Sisters exercise.</p>
Week 10	<p>11. Obsessions</p> <p>Grammar: Present perfect continuous, questions and answers, and time clauses.</p> <p>Vocabulary: Compound nouns.</p> <p>Reading: Famous for not being famous.</p> <p>Writing: Summarizing all previous exercises in one writing exercise.</p> <p>Listening: Collectors exercise.</p>
Week 11	<p>12. Tell me about it</p> <p>Grammar: Indirect Questions, and questions tags.</p> <p>Reading: Engineering reading material 1.</p> <p>Vocabulary: Engineering terms 1.</p> <p>Speaking: group discussion.</p> <p>Listening: BBC six minutes English exercise.</p>
Week 12	<p>Speaking presentation.</p> <p>Listening: Ted video exercise.</p>
Week 13	<p>13. Life's great events!</p> <p>Grammar: Reported speech: reported statements, and reported requests and commands.</p> <p>Reading: Engineering reading material 2</p> <p>Vocabulary: Engineering terms 2.</p> <p>Speaking: group discussion.</p> <p>Listening: Engineering listening material.</p>
Week 14	<p>Reading: Engineering reading material 3</p> <p>Vocabulary: Engineering terms 3</p>
Week 15	Content review
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

Week	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. New Headway Plus Intermediate Student Book, Liz and Hohn Soars, 2006, Oxford University Press. 2. Writing in Paragraphs, Dorothy E Zemach and Calos Islam, 2010, Macmillan.	Yes
Recommended Texts		No
Websites	News – Biomedical Engineering at the University of Michigan (umich.edu) TED-Ed - YouTube BBC Learning English - 6 Minute English	

Grading Scheme



مخطط الدرجات

Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
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2- المرحلة الثانية

		Republic of Iraq - Ministry of Higher Education and Scientific Research Kerbala University Bachelor's degree in Architectural Engineering Program Curriculum (2024 - 2025) Second Class Two Semesters based on Bologna- 60 ECTS credits - 1 ECTS = 25 hr		جمهورية العراق - وزارة التعليم العالي والبحث العلمي جامعة كربلاء بكالوريوس في هندسة العمارة المنهاج الدراسي للعام (2024 - 2025) المرحلة الثانية فصلان دراسيان حسب نظام بولونيا - 60 وحدة اوروبية - كل وحدة اوروبية = 25 ساعة															
		Level Semester No. Module Code Module Name in English اسم المادة الدراسية Language		SSVL (hr/w) L (hr/w)ect (hr/Lab (hr/w) Pr (hr/w) Tut (hr/w) mm (hr) Exam hr/sem				SSVL hr/sem USSVL hr/sem SWL hr/sem ECTS ABET Module Type Prerequ site Module(s)											
Three	1	Arch031	Architectural Design III	التصميم المعماري-3	English	12						180	70	250	10.00	6.00	C		
	2	Arch032	Architectural Drawing III	الرسم المعماري-3	English		3				3	48	77	126	5.00	1.00	C		
	3	Arch033	Building Construction I	تركيب المباني-1	English	1					2	3	48	27	75	3.00	2.00	C	
	4	ENG021	Mathematics III	الرياضيات-3	English	3	1				1	3	78	72	150	6.00	4.00	B	
	5	Arch034	Computer III	الحاسوب-2	English	1					2	3	48	27	75	3.00	2.00	C	
	6	Arch035	Plane Surveying	المساحة المسطوية	English	1					3	3	63	12	75	3.00	2.00	S	
	Total						6	1	0	22	1	0	15	465	295	750	30.00	17.00	
Four	1	Arch041	Architectural Design IV	التصميم المعماري-4	English	12						180	95	275	11.00	6.00	C		
	2	Arch042	Architectural Drawing IV	الرسم المعماري-4	English		3				3	48	52	100	4.00	1.00	C		
	3	Arch043	Building Construction II	تركيب المباني-2	English	2					3	78	47	125	5.00	3.00	C		
	4	Arch044	Numerical Methods+ Statistics	الطاولات العددية+ الاحصاء	English	4	1				1	3	93	57	150	6.00	5.00	C	
	5	UCK202	English Language II	لغة الانجليزية-2	English	2					3	33	17	50	2.00	2.00	B		
	6	UCK203	Arabic Language II	لغة العربية-2	English	2					3	33	17	50	2.00	2.00	B		
	7												0	0	0.00	0.00			
Total						10	1	0	18	1	0	15	465	285	750	30	19.00		
Note: The student should complete 4 weeks of Summer Internships to fulfill the requirements of the Bachelor's degree																			
Structured SVL (hr/w) type	CL	Class Lecture	Module type	B	Basic learning activities	SWL:	Student workload												
	Lab	Laboratory		C	Core learning activity	SSVL:	Structured SVL												
	Pr	Practical Training		S	Support or related learning activity	USSVL:	Unstructured SVL												
	Tut	Tutorial		E	Elective learning activity														
	Lect	Online lecture																	
Sem	Seminar																		
Note: Columns O, Q and R are progmaed, protected and should not be edited																			

المستوى الثاني

مقررات الفصل الثالث

نموذج وصف المادة الدراسية
التصميم المعماري

Module Information			
معلومات المادة الدراسية			
Module Title	Architectural design III		Module Delivery
Module Type	Core		<input type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	Arch031		
ECTS Credits	10		
SWL (hr/sem)	250		
Module Level	UGx11 1	Semester of Delivery	1
Administering Department	Architectural Engineering	College	College of Engineering
Module Leader	Dr. Anwar Fadhil	e-mail	anwar.f@uokerbala.edu.iq
Module Leader's Acad. Title		Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Dr. Haider Ibrahim	e-mail	haider.i@uokerbala.edu.iq
Scientific Committee Approval Date		Version Number	1.0

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

Module Aims, Learning Outcomes and Indicative Contents	
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	1- Teaching students how to prepare analytical studies for projects and derive conclusions to transform them into key themes in the design process. 2- Exposing students throughout the academic year to a variety of design projects with diverse functions and varying levels of complexity.

	<ol style="list-style-type: none"> 3- Instructing students on how to address different design and functional issues, employing appropriate solutions tailored to the specifics of each project while maintaining local uniqueness and integrating with the urban context. 4- Equipping students with the skills to work with various drawing scales and enhancing their ability to interpret volumes and the dynamic and visual relationships between spaces. 5- Practically applying architectural design in conjunction with building construction, technical drawing, and architectural visualization to enhance students' ability to present their projects in a way that closely resembles reality. 6- Training students to work with the third dimension (mass) by focusing on models to reinforce their understanding of the mass they design and its relationship with other horizontal and vertical plans. 7- Preparing students for the transition to the subsequent stage, which involves larger-scale, more comprehensive projects with diverse functions.
<p style="text-align: center;">Module Learning Outcomes</p> <p>مخرجات التعلم للمادة الدراسية</p>	<ol style="list-style-type: none"> 1. Understanding how to analyze projects, study site requirements and functions, and the impact of users on the design process. 2. Dealing with projects according to their functional and symbolic specificities. 3. Comprehending the spatial requirements for each activity and how to calculate them. 4. Working with basic geometric shapes and deriving the project form from them based on the specific constraints of each project. 5. Understanding the effects of viewpoints, movement, orientation, and the influence of sunlight and wind on the design process, as well as the appropriate visual and climatic solutions tailored to each project's uniqueness. 6. Focusing on how to analyze similar examples to enhance project understanding and develop the student's ability to visualize design requirements and relationships within the project. 7. Addressing specificity and gradation within each part and between parts within the whole at both vertical and horizontal planning levels. 8. The ability to navigate complex relationships between activities and

	<p>interconnected spaces both vertically and horizontally.</p> <p>9. Capability to work with both local and modern materials during the design process.</p> <p>10. Considering the method of furnishing according to the specificity of each activity while emphasizing the design of circulation axes to enhance the student's understanding of how to operate the space and the performance of each activity.</p>
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<p>Indicative Contents المحتويات الإرشادية</p>	<p>The Guiding Content Includes the Following:</p> <p>Part A – Analytical Studies Understanding how to analyze site axes, functions, and similar examples for each project.</p> <p>Part B – Projects with Diverse Functions Engaging with a variety of projects that have different functions and complex relationships between their components.</p> <p>Part C – The Impact of Constraints and External Factors on the Design Process Learning how to address the constraints of each project, such as climatic factors, site specificity, and client requirements.</p> <p>Part D – Similar Examples Focusing on the analysis of similar examples in terms of functional and formal aspects, and how to solve design problems within those examples, leading to conclusions that students can apply during the design process.</p> <p>Part E – Relationships Between Components and Between the Part and the Whole Working with movement and visual axes, specificity, and both movement and visual isolation, as well as the relationships between components and between the part and the whole, tailored to the uniqueness of each project.</p> <p>Part F – Architectural Symbolism Understanding the meaning of symbolism, how to employ it in architecture, and its influence on the design process through a project that carries a specific symbolic dimension.</p>
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<p>Learning and Teaching Strategies استراتيجيات التعلم والتعليم</p>
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<p>Strategies</p>	<p>The Strategy is Based on Three Fundamental Pillars:</p> <ol style="list-style-type: none"> 1. Theoretical Lectures that provide students with the essential knowledge required for the assigned projects. 2. Project Critiques for Development and Evaluation: These critiques take two forms: group critiques and individual critiques. 3. Incorporation of a Series of Quick Assessments to gauge the student's
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ability to make correct design decisions within a limited timeframe.

Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	180	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	12
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	70	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	5
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	Quizzes	2	10% (10)	5,10	1,2
	Assignments	15	15% (15)	2,12	All
	Projects / Lab.	2	10% (10)	Continuous	All
	Report	ALL	5% (5)	13	2
Summative assessment	Midterm Exam	6hr	10% (10)	7	All
	Final Exam	6hr	50% (50)	16	All
Total assessment				Total assessment	100% (100Marks)

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

Week	Material Covered
Week 1	Introducing the Student to the Curriculum for the Second Stage and Its Objectives: This includes an introduction to the first project in this stage, which is a preliminary project aimed at reimmersing students in the design atmosphere after the break. The focus is on leveraging geometric formation and translating it into actual architectural drawings within a project that exhibits functional relationships.
Week 2	Lecture on External Factors and Criteria Affecting the Building (such as sunlight, wind, roads, and neighboring structures) and their impact on the placement and orientation of masses. Additionally, a lecture on Functional and Formal Analysis will be conducted.
Week 3	Lecture on the Mechanism of Converting Areas Resulting from Studies into Effective Activity Designs, Including Furnishing and Necessary Circulation Paths.

Week 4	Lecture on Horizontal and Vertical Architectural Plans and Strengthening the Formal Relationships Between Masses Using Visualization Techniques, as well as Linking Two-Dimensional and Three-Dimensional Compositions.
Week 5	Lecture on the Method of Final Presentation Style (Panorama).
Week 6	Final Presentation of the First Project
Week 7	Day sketch
Week 8	Introductory Lecture on the Second Project in This Stage: Through this project, students will learn the design principles for residential buildings (Design Project for a Housing Unit), which are more complex in terms of the relationships between spaces due to the inclusion of two activities that require treatment at both the component level and the overall level.
Week 9	Lecture on the Method of Breaking Down Problems into Smaller, Manageable Issues: This includes how to derive complex relationships between activities and focusing on the results of analyzing Bubble Diagrams.
Week 10	Lectures on Types of Movement, Methods of Visual and Spatial Isolation, and the Concepts of Privacy and Functional Separation.
Week 11	Discussion of the Final Outcomes of the Study Phase and Transitioning to Addressing the Formal and Functional Requirements Within the Project.
Week 12	Day Sketch
Week 13	Lecture on How to Design Sections and the Visual and Spatial Vertical Connections Between Levels.
Week 14	Lecture on How to Design Facades in Harmony with the Specificity of Local Architecture Using Sustainable Local Materials.
Week 15	Final Presentation of the second Project

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

Week	Material Covered
Week 1	Introduction to the First Project + Presentation of Preliminary Studies 1.
Week 2	Presentation of Secondary Studies + Presentation of Final Studies.
Week 3	Preliminary Presentation 1 + 2.
Week 4	Preliminary Presentation 3 + Group Discussion.
Week 5	Pre-Final Presentation of the Project + Discussion.
Week 6	Final Presentation of the First Project
Week 7	Day sketch
Week 8	The Second Project + Field Trip to the Proposed Site.
Week 9	Presentation of Preliminary Studies 1 + 2.
Week 10	Pre-Final Studies Presentation + Final Studies Presentation + Preliminary Presentation 1: Group Discussion.
Week 11	Preliminary Presentations 2 + 3 (Including Group Discussions on Student Outputs).

Week 12	Day Sketch
Week 13	Preliminary Presentation 4 (Individual Discussions) + Pre-Final Presentation.
Week 14	Individual Discussions+ Group Discussions
Week 15	Final Presentation of the second Project

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts		
Recommended Texts	<ul style="list-style-type: none"> Ching, F. D. (2007). <i>Architecture: Form, space, and order</i>. John Wiley & Sons. Neufert, E., & Neufert, P. (2012). <i>Architects' data</i>. John Wiley & Sons. Watson, D., Crosbie, M. J., & Hancock Callender, J. (1999). <i>Time saver standards for architectural design data</i>. The McGraw-Hill. Shireen Ihsan Shirzad - Principles of Art and Architecture. 	Yes
Websites	https://archnet.org/ http://arch2o.com/ http://archdaily.com/ http://behance.com/ https://www.contemporist.com/ https://www.dezeen.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.

نموذج وصف المادة الدراسية
الرسم المعماري

Module Information			
معلومات المادة الدراسية			
Module Title	Architectural Drawing - 3		Module Delivery
Module Type	Core		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Lab <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	Arch032		
ECTS Credits	5		
SWL (hr/sem)	3		
Module Level	UGx11 1	Semester of Delivery	
Administering Department	Architectural Engineering	College	College of Engineering
Module Leader	Faylaq Fathee M. Ali	e-mail	faylaq.f@uokerbala.edu.iq
Module Leader's Acad. Title	Ass . Lecturer	Module Leader's Qualification	Master
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	08/08/2024	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 اهداف المادة الدراسية	1- Building and developing the student's expressive skills in addition to training him to use different materials and techniques in presentation.

	<p>2- Stimulate the student's visual perception of shape, texture, sizes and their contrasts.</p> <p>3-Introducing how to derive different shapes and abstract them by analyzing the structure of the visual shape by referring to elementary geometric shapes such as the square, circle, and triangle.</p> <p>4- The subject focuses on the gradual building of the student's skills through a clear sequence of exercises starting with exercises for calligraphy pens and ending with two-dimensional drawings represented by horizontal and vertical projections (Plans, Sections and Elevations).</p> <p>5- Introducing the basic principles of three-dimensional drawings, especially the principles of drawing Axonometric & Isometric. 4- Presentation, by focusing on techniques with pencils, collage, wooden pens, inking, and the principles of presentation with poster and watercolor colors.</p> <p>6- Developing the imagination in perceiving and understanding how three-dimensional blocks are formed, understanding the three-dimensional shape (isometric), changing viewing angles, and different projections, and sensing the mass and architectural formation through light, shadow, and different projections of lighting.</p> <p>7- Training the student to draw horizontal and vertical projections.</p>
<p>Module Learning Outcomes مخرجات المادة الدراسية</p>	<p>8. Developing the student's ability to draw lines and surfaces</p> <p>9. Sensitivity to the (Human Scale)</p> <p>10. Identifying elementary geometric shapes and how they intersect within what the composition presents for the work.</p> <p>11. Sensing of colors and the relationship between texture and tones .</p> <p>12. Realize texture and texture through shade and shadows</p> <p>13. Recognizing the different techniques of colors in architectural drawings.</p> <p>14. Converting the scene into a two dimensional drawing .</p>
<p>Indicative Contents المحتويات الارشادية</p>	<p>Indicative content includes the following.</p> <p><u>Free Hand work -Part A</u> [12 .Architectural Facades techniques and training using colors techniques hrs]</p> <p><u>Part B - Geometric projection</u> Introducing students to the principles of Free hand and elements of geometric projection- Explaining projections and their importance in architecture- Meanings of lines in projections –Drawing isometrics form in one , two and three dimensions . [15 hrs]</p> <p><u>Part C - watercolors</u> Drawing with watercolors and ink pen with several types of lines - Drawing geometric formations. [15 hrs]</p>

	<p><u>Part D –perspective</u> Drawing building facades by using one and two point perspective . [21 hrs]</p> <p><u>Part E – Final project</u> Building drawings have been selected, A hand drawing of the buildings Schematic drawings Final ,are shown and presented in several stages submission of the project. [12 hrs]</p>
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Learning and Teaching Strategies مخرجات التعلم والتعليم	
Strategies	Weekly practical exercises in class. Home practical exercises.- power point Theoretical lectures and lectures-

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	45	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	3
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	90	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	6
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	135		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5, 10	LO #1, 2, and 6
	Assignments	2	10% (10)	2, 12	LO # 3, 4, 6 and 7
	Projects / Lab.	1	10% (10)	Continuous	All
	Report	1	10% (10)	13	LO # 5 and 6
Summative	Midterm	2 hr	10% (10)	7	LO # 1-7

assessment	Exam				
	Final Exam	2hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

Week	Material Covered
Week 1	Introductory lecture on point and two-point perspective
Week 2	Three-point perspective (high-rise perspective)
Week 3	Architectural facades
Week 4	interior perspective
Week 5	Watercolors Technique
Week 6	value and hue of color and light
Week 7	Land Scape
Week 8	Human figure
Week 9	Day Sketch
Week 10	ink and inkjet Technique
Week 11	Reflections in colors
Week 12	Visits to the College of Fine Arts and the Iraqi Museum – site drawings of the current situation transformed into scale drawings of parts or elements of facades / showing in colors and ink water
Week 13	Marker colors Technique
Week 14	pastel colors Technique
Week 15	Final Exam

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

Week	Material Covered
Week 1	Show students' drawings illustrating different perspective styles and their techniques.
Week 2	High-rise perspective training
Week 3	A lecture on how to convert a scene into a two-dimensional drawing.
Week 4	Drawing a room using artistic perspective training
Week 5	Lecture on watercolors and their techniques in display
Week 6	Lecture on planning and shading methods with color

Week 7	Study of external building environments
Week 8	Show the mechanism of drawing characters in an architectural manner and its measurements
Week 9	Day Sketch
Week 10	Definition of isometrics
Week 11	Training on color reflections in materials
Week 12	Visits to the College of Fine Arts and the Iraqi Museum – site drawings of the current situation transformed into scale drawings of parts or elements of facades / showing in colors and ink water
Week 13	Drawing exercises
Week 14	Introducing students to pastel colors and how to use them
Week 15	Final Exam

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	- FARAJ Aboo – Elements of art part 1 and 2	Yes
Recommended Texts		
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.

نموذج وصف المادة الدراسية
تركيب المباني

Module Information			
معلومات المادة الدراسية			
Module Title	Buildings Construction I		Module Delivery
Module Type	Core		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	Arch033		
ECTS Credits	3		
SWL (hr/sem)	75		
Module Level	UGx11 1	Semester of Delivery	1
Administering Department	Type Dept. Code	College	Type College Code
Module Leader	Name	e-mail	E-mail
Module Leader's Acad. Title	Professor	Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	40/0/202	Version Number	1.0

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	Buildings Construction I		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	1. Preparing efficient cadres in the stages of building construction 2. The ability to know the types of buildings with the project requirements and details

	<ol style="list-style-type: none"> 3. Addressing site problems and investing its characteristics and components to serve the integrated scene 4. Identifying the building requirements from all special requirements such as bricks, walls, moisture treatments and others 5. The ability to know the important binding materials in construction with its special types 6. The ability to identify the methods of heat transfer in buildings and the most important expansion joints and types of wood and other topics
<p style="text-align: center;">Module Learning Outcomes</p> <p>مخرجات التعلم للمادة الدراسية</p>	<p>A- Cognitive objectives (knowledge and understanding)</p> <p>A-1 Defining the basic principles in the stages of building construction or what can be called the details and requirements of the project and through the types of buildings in general and buildings constructed with load-bearing walls in particular.</p> <p>-2 Studying the development of building materials throughout history with a focus on the economic aspects and the most widely used in Iraq through the availability of raw materials.</p> <p>-3 Knowing the concepts of construction, walls, supports, partitions, foundations, floors and ceilings</p> <p>-4 Classifying materials such as bricks and other types such as wood in construction and types and qualities.</p> <p>-5 Characteristics and types of each element in the construction of expansion joints, insulators and barriers, and they are the advantages and disadvantages of each type</p> <p>-6 Components of building materials</p> <p>-7 Design components for building construction and project details and requirements</p> <p>B - Skill objectives (skills specific to the topic)</p> <p>-1 How to apply the lecture vocabulary to a real example</p> <p>-2 Prepare detailed designs for building joints and their elements, the materials they contain and the raw materials they contain.</p> <p>3 - The ability to identify appropriate environmental solutions in building designs and construction in various conditions.</p> <p>-4 The ability for students to interact with each other within a single lecture in a discussion about the topic.</p> <p>C- Emotional and value objectives (thinking skills)</p> <p>C-1 - The ability to collect and analyze the details of the building and the project and its architectural and structural elements and the special reasons for using special types of building materials.</p>

	<p>C-2 The ability to form creative design ideas that link the components of a single project with the accuracy of the details and the special use of each type of building materials.</p> <p>C-3 Comparison between the different materials in the materials included in its composition and used for the same purpose..</p> <p>C-4 The ability to suggest alternatives to approach design problems in a scientific manner and determine the appropriate method to address those problems.</p> <p>D - General and transferable skills (other skills related to employability and personal development).</p> <p>D1 The ability to know the materials included in the construction and link it to the building</p> <p>D2 Selecting the distinguished basic materials for the purpose of presenting them to students in the form of a lecture or discussion with student participation.</p> <p>D-3 Developing his/her personality and it is an educational and teaching process at the same time</p> <p>D-4 The teaching staff seeks, through the student's progression in the study, to build bridges of the relationship that connects them, where there is a relationship between the student and the professor during education and an educational relationship during the provision of advice and guidance and a relationship of guidance and counseling through the educational advisor and a relationship of fellowship at work to prepare him/her to deal with his/her subordinates upon graduation and joining one of the institutions, companies or departments.</p> <p>D-5 Ability to work with others in a disciplined manner within a single work team.</p> <p>D-6 Full awareness of the ethical and practical responsibility of group and individual work.</p> <p>D-7 Ability to present, discuss and defend ideas orally, in writing and electronically.</p> <p>D-8 Ability to understand and comprehend the English language within the technical level related to the field of specialization.</p>
<p>Indicative Contents المحتويات الإرشادية</p>	<p>Indicative content includes the following.</p> <p><u>Part A Building materials</u> Building materials, their types and uses in construction processes (15 hours)</p> <p><u>Part B Foundations</u> Foundations, their types and uses (10 hours)</p> <p><u>Part C Walls</u> Walls, types of connections and openings in walls (10 hours)</p> <p><u>Part E Flooring</u></p>

	Flooring, its types and uses (10 hours) <u>Part F ceilings</u> Types of ceilings (reinforced - vaulted) (10 hours) <u>Part G Stairs</u> Identifying Stairs in Solid Construction (10 hours)
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Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	The course adopts the Learning by Doing strategy, where specific topics are discussed and an attempt is made to apply them practically directly in the studio. The course professor expands the discussion of the topic through the problems that students encounter during the practical application and thinking together about their causes and how to address them and theorize them in detail, while clarifying and detailing the importance of the topic presented for the architect academically and professionally, and linking the topic to the scientific research aspects and the professional applied aspects in the labor market.
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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	2
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	75		

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5, 10	LO #1, 2, 10 and 11
	Assignments	15	20% (20)	2, 12	LO # 3, 4, 6 and 7
	Projects / Lab.	1	5% (5)	Continuous	All
	Report	1	5% (5)	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	<p>Definition of local and international building materials / Determining the factors affecting the quality of materials and the method of selecting them.</p> <p>Construction using bricks / Types of bricks / Uses of bricks in construction processes / Bonding in the process of brick construction and seams.</p>
Week 2	Types of binding materials used in binding blocks and building units in walls / Definition / Characteristics / Types
Week 3	<p>Stone construction / Classification of stones / Types of stone walls / Joints in connecting stone blocks</p> <p>Wood / Its uses in construction / Its structural properties / Classification of wood / Its disadvantages / Load-bearing walls (framing) with wood.</p>
Week 4	<p>Iron and steel / Its uses in construction / Its structural properties / Structural systems</p> <p>Alternative materials / Aluminum / Plastic / Alternative materials ... / Its uses in construction / Its structural properties</p>
Week 5	Construction processes / Understanding construction processes / Construction methods / Structural systems (solid, structural, shell)
Week 6	Foundations/Function of foundations - Types of soil - Principles of foundation selection - Types of foundations – Shallow-Deep Foundations
Week 7	Foundations / Types of foundations - Cantilever foundation - Separate foundations etc.
Week 8	Walls in solid system / Function of wall / Types of walls / Brick walls / Construction details for brick construction works
Week 9	Walls in solid system / Brick walls / Types of connections / End connections / Corner connections / Intersection connections / Connecting new walls to previously constructed walls / Connecting supports connected to walls
Week 10	Quick test / Roofing of openings in brick walls / Roofing of walls using bricks / Roofing of openings using arches
Week 11	Brick floors and ceilings / getting to know the floors and their function / suspended floors / upper floors (wooden - vaulted) / method of implementing vaulted ceilings / advantages and disadvantages of vaulted ceilings.

Week 12	Reinforced concrete floors and ceilings / Definition of concrete ceilings and floors / Ceilings with one main reinforcement / Ceilings with main reinforcement in both directions / Ribbed concrete ceilings and floors.
Week 13	Roofing using arches and domes / Roofing using arches / Roofing using domes / Domes built using bricks / Domes built using reinforced concrete
Week 14	Stairs / Identifying Stairs in Solid Construction - Part One
Week 15	Stairs / Types of Stairs - Part Two
Week 16	Exam - (Isometric Magnified Section of a Building from the Foundation to the Roof)

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 3	Drawing brick and symbol of material
Week 4	Classwork: Introduction to the Study of a Solid-Structure Building Project
Week 5	Homework: Construction Drawing - Ground Floor Plan of the Project
Week 6	Classwork: Construction drawing - Project foundation plan
Week 7	Homework: Construction drawing - Detailed sections of the project foundation
Week 8	Classwork: Types of walls (solid, hollow, wood, membrane, stone) Homework: Drawing a detailed construction for brickwork
Week 9	Classwork: Drawing a detailed wall showing the English connection Homework: Drawing a detailed wall showing the Flemish connection
Week 10	Classwork: Drawing a detailed wall - Section passing through a window opening showing details (reinforced concrete threshold, brick) for the walls of the project building Homework: Drawing a structural drawing - Section passing through a window opening (pointed arch, steel) for the walls of the project building
Week 11	Classwork: Drawing a structural drawing of floors (project floor with concrete casting + floor for large spaces) Homework: - Drawing a structural drawing - Floor for a partition + arch ceilings
Week 12	Drawing a section in a reinforced concrete ceiling
Week 13	Classwork: Drawing a horizontal plan and a section for brick domes Homework: Plan and section for a dome composed of concrete and brick
Week 14	Construction and architectural drawings for the project stairs
Week 15	Construction and architectural drawings for the project stairs
Week 16	Exam - (Isometric enlarged section of a building from the foundation to the roof)

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Building Construction Book / Zuhair Sako Building Construction Book / Atef Al-Suhairi Building Construction Book / Anis Jawad	Yes
Recommended Texts	<ul style="list-style-type: none"> • Building construction : Structure & Fabric ,Part2, Mitchell • The construction of building Vol.1&2,Barry 	No
Websites	www.youtub	

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.

نموذج وصف المادة الدراسية
الرياضيات

Module Information			
معلومات المادة الدراسية			
Module Title	Mathematics III	Module Delivery	
Module Type	Basic learning	<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar	
Module Code	ENG201		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	UGx11 2	Semester of Delivery	3
Administering Department		College	Engineering College
Module Leader	Professor : Emad Qasem Hussein	e-mail	emad.dujaily@uokerbala.edu.iq
Module Leader's Acad. Title		Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	20/6/2023	Version Number	1.0

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	Mathematics II	Semester	2
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents	
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	The module aims to provide students with a solid understanding of the fundamental concepts and techniques of linear algebra. This includes the study of linear equations. Students will also learn how to apply

	<p>these concepts to solve real-world problems in various fields such as engineering, physics, economics, and computer science. By the end of the module, students should be able to manipulate and analyze mathematical models using linear algebraic tools and communicate their findings effectively.</p>
<p style="text-align: center;">Module Learning Outcomes</p> <p>مخرجات التعلم للمادة الدراسية</p>	<p>On completion of this module, students are expected to be able to:</p> <ol style="list-style-type: none"> 1. Differentiate functions using the chain rule, product rule, quotient rule, and differentiation formula. 2. Formulate and solve first, second and higher order differential equations by algebraic methods. 3. Apply Fourier series to solving ordinary differential equations. 4. Test a given series for convergence, Determine whether a given sequence converges or not. 5. Differential Equations: Ordinary differential equations (ODEs) and partial differential equations (PDEs) are extensively used to describe dynamic systems and phenomena in engineering. They play a crucial role in fields such as fluid mechanics, heat transfer, structural analysis, and electrical circuits. 6. Apply methods of general and particular solutions to ordinary differential equations. 7. Formulation of a mathematical problem, mathematical formulation and use of mathematical methods in solving. 8. Find the Laplace transform of a function from the definition of a Laplace transform. 9. Find the Laplace transform of derivatives and integrals.
<p style="text-align: center;">Indicative Contents</p> <p>المحتويات الإرشادية</p>	<p>The Indicative Contents of a Mathematics module will depend on the level and scope of the course. However, some common topics that may be covered in a mathematics module include:</p> <ol style="list-style-type: none"> 1. Arithmetic: Basic mathematical operations such as addition, subtraction, multiplication, and division. 2. Algebra: The study of mathematical symbols and the rules for manipulating these symbols to solve equations and represent real-world situations. 3. Geometry: The study of shapes, sizes, positions, and measurements of objects in space. 4. Calculus: The study of mathematical concepts such as limits,

	<p>derivatives, and integrals.</p> <p>5. Number theory: The study of properties of numbers and their relationships with each other.</p> <p>Overall, the Indicative Contents of a Mathematics module aims to provide students with a comprehensive understanding of mathematical concepts and their applications in various fields of study.</p>
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Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students.
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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 أسبوعياً	6
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	72	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعياً	4
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	150		

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5, 10	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	2hr	10% (10)	7	LO # 1-7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1 Week 2 Week 3 Week 4	Ordinary differential Equations: First order (variables separable, homogeneous, linear, Bernoulli and exact). Second order (Homogeneous and non-homogeneous). Higher order differential equations
Week 5 Week 6 Week 7	Partial Differentiation: Function of two or more variables, Partial derivatives, Directional derivative, Gradient, divergence, curl, Tangent plane and normal line, Maxima, minima & saddle point.
Week 8 Week 9 Week 10	Laplace Transform: Unit step function, Gamma function, Definition of L.T. and Properties, Inverse Laplace Transform, partial fractions, solution of differential equations using Laplace transform.
Week 11 Week 12	Sequences and series: Sequences, convergence, Series, geometric series, n^{th} partial sum, test of convergence, alternating series, Power and Taylor's series.
Week 13 Week 14 Week 15	Fourier Series: Periodic functions, Fourier series, Even and odd functions, Half – Range expansions, Complex notation for Fourier series.
Week 16	Preparatory week before the final Exam

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Erwin Kreyszig, "Advanced Engineering Mathematics", 10 th Ed.	Yes
Recommended Texts	4. George B. Thomas Jr., "CALCULUS", 14 th Ed 5. Schaum's Outline of College Mathematics, Fourth Edition	No

	6. Mary Attenborough, "Mathematics for Electrical Engineering and Computing", 1 st Ed.	
Websites	Topics in a Calculus -Wolfram Mathworld	

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.

نموذج وصف المادة الدراسية
الحاسبات

Module Information معلومات المادة الدراسية				
Module Title	Digital Building Modeling I		Module Delivery	
Module Type	Core		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar	
Module Code	Arch034			
ECTS Credits	3			
SWL (hr/sem)	75			
Module Level	UGx11 1	Semester of Delivery		1
Administering Department	Type Dept. Code	College	Type College Code	

Module Leader	Name	e-mail	E-mail
Module Leader's Acad. Title	Professor	Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	0/0/2024	Version Number	1.0

Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

Prerequisite module	Digital Building Modeling I	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	<ol style="list-style-type: none"> 1. Learning advanced engineering drawing through the computer is one of the most important learning methods that every architect and anyone who aspires to understand and master engineering drawing, freehand drawing, executive drawing, and drawing according to international standard criteria seeks. 2. Transferring actual direct work methods and moving away from the stereotyped and traditional to explain the commands used in drawing in an abstract manner. Through it, we ensure mastery in architectural projects in all specializations. 3. Explaining Computer Aided Design (as a concept and as a system). 4. Explaining Building Modelling Concept
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<p>A- Cognitive objectives (knowledge and understanding) A1- Introducing students to the building systems used by reviewing these systems and identifying the characteristics and behavior of each system.</p> <p>B - Skill Objectives (Subject-Specific Skills) B1 - The ability to permanently modify the plans and drawings designed on this program. B2 - The ability to draw three -dimensional and two-dimensional. B3 - Enabling the student to employ his information and add different geometric shapes to the designs with high accuracy.</p> <p>D- General and qualifying transferable skills D1- Skills of designing, auditing and implementing engineering work.</p>

	<p>Teaching and Learning Methods</p> <ol style="list-style-type: none"> 1. The material is theoretical. It is given in a lecture manner, by presenting information in a sequential and interconnected manner. 2. Using the blended learning method, which is considered one of the methods of employing e-learning in teaching 3. Use the electronic profile for the scientific material, in which lectures are uploaded, exams are conducted and assignments are submitted. <p>Evaluation Methods</p> <ol style="list-style-type: none"> 1. Evaluating students through their participation in the discussion during electronic lectures. 2. Theoretical exams, short surprise exams, and the semester exam... and using the electronic form Google.
<p>Indicative Contents المحتويات الإرشادية</p>	<p>Indicative content includes the following.</p> <p>Part A - Drawing Tools Explanation of all drawing tools (Line - Circle - Arc - - Erase - Construction Line - Rectangle - Move & Copy and their applications)</p> <p>Part B - Modify Commands Explanation of all Modify commands (Rotate - Trim - Offset - Extend-Fillet – Chamfer.....)</p> <p>Part C - Dimension Tools &Scale Explanation of Dimension tools</p> <p>Part E - Block Explanation of how to load the block and use it in the drawing</p> <p>Part E– drawing section & elevation Dropping and designing the elevation , section and applying everything explained above .</p>

<p>Learning and Teaching Strategies استراتيجيات التعلم والتعليم</p>	
<p>Strategies</p>	<p>The strategy includes relying on three basic pillars:</p> <ol style="list-style-type: none"> 1- Theoretical lectures that provide the student with basic knowledge, including the presentation of designed applied models. 2- Gradual explanation of instructions and applications from the general to the details, with real-time classroom exercises and a weekly classroom assignment. 3- The study includes a set of quick tests to learn about The student’s ability to use applications and instructions within a short period of time.

Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	45	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
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)	5, 10	LO #1, 2, 10 and 11
	Assignments	15	20% (20)	2, 12	LO # 3, 4, 6 and 7
	Projects / Lab.	1	5% (5)	Continuous	All
	Report	1	5% (5)	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	<p>Program definition, main interface, ribbons, basic commands, windows, keyboard and mouse uses.</p> <p>Explanation of the importance of the program for engineers in general and for architects in particular .</p> <p>It includes displaying architectural projects in AutoCAD and discussing them with students.</p>

Week 2	Explanation of basic drawing tool commands such as (Line - Circle - Arc - Modify - Erase)
Week 3	Explanation of commands (Construction Line - Rectangle - Move & Copy and their applications)
Week 4	Explanation of the commands (Polyline - Donut - Rotate - Trim - Offset - Extend)
Week 5	Explanation of commands (drawing an ellipses - drawing a spline - drawing parallel lines Fillet - Chamfer)
Week 6	Explanation Block - Array Command& How to Download Blocks from the Website
Week 7	Explanation of layers- drawing scale
Week 8	Explanation Commands (Hatch - Gradient - Text Command - Align - Lengthen)
Week 9	Explaining how to drop a section of the drawings in AutoCAD
Week 10	Explanation of commands (Explode-Dimension)
Week 11	Dropping and designing the elevation and applying everything explained above
Week 12	Quizzes
Week 13	explanation Layout
Week 14	Preparatory week before the exam
Week 15	
Week 16	Exam .

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

Material Covered	
Week 1	Lab 1: Explaining Computer Aided Design (as a concept and as a system).: Installing the program and getting to know it .
Week 2	Lab 2: Exercise on drawing tools
Week 3	Lab 3: Exercise on drawing tools
Week 4	Lab 4: Homework plan for a 5*5 room with all the details
Week 5	Lab 5: Homework plan 10*10
Week 6	Lab 6 : Furnishing the previous plan
Week 7	Lab 7: Make a plan within layers
Week 8	Lab 8: Name the previous plan and add a hatch to each plan
Week 9	Lab 9: A detailed assignment for the plan
Week 10	Lab 10: Applications on Homework

Week 11	Lab 11: drawing elevation
Week 12	Lab 12: Applications on Layout
Week 13	Lab 13: Quizzes
Week 14	Lab 14: Review by drawing a detailed plan
Week 15	Exam .

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	There are no books prescribed.	Yes
Recommended Texts	<ul style="list-style-type: none"> Autodesk AutoCAD Architecture 2022 Fundamentals AutoCAD 2018 For Architectural Design. Approach, 21st Edition 	No
Websites	https://www.smartdraw.com/cad/autocad alternative.htm https://www.autodesk.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
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Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

نموذج وصف المادة الدراسية
المساحة

Module Information			
معلومات المادة الدراسية			
Module Title	Plane Surveying		Module Delivery
Module Type	Core		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input checked="" type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	Arch035		
ECTS Credits	3		
SWL (hr/sem)	75		
Module Level	UGx11 2	Semester of Delivery	
Administering Department	Arch	College	Eng
Module Leader	Hussein Attya	e-mail	Hussein.t@uokerbala.edu.iq
Module Leader's Acad. Title	Asst. Professor	Module Leader's Qualification	Ph.D.
Module Tutor		e-mail	E-mail
Peer Reviewer Name		e-mail	E-mail
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	<ol style="list-style-type: none"> 1. To develop problem solving skills and understanding of plane surveying. 2. To understand the theory and practice of coordinate systems and the applications of location in daily life. 3. To develop strong theoretical basis about measurements and elementary error analysis in building sites. 4. To master essential skills of projects setting out on site. 5. To develop strong knowledge and common language with surveyors in the site. 6. To develop strong linear and angular measurement skills in the sites.

	7. To develop strong field skills to prepare as built drawings, mapping and cartography.
<p style="text-align: center;">Module Learning Outcomes</p> <p>مخرجات التعلم للمادة الدراسية</p>	<ol style="list-style-type: none"> 1. Recognize the importance of plane surveying for architects. 2. Understand the elements of theory of errors and adjustment. 3. Understand horizontal linear measurements and master field operation. 4. Understand vertical linear measurements and theory of leveling and using dumping level. 5. Understand the notion of datum and reference surfaces. 6. Understand linear development profiles and cross-sections. 7. Understand angular measurements and using digital theodolite. 8. Understand the notion of reference directions. 9. Understand survey framework and traversing. 10. Understand and practice of forward and backward calculations. 11. Master the skills of as built drawings and mapping. 12. Understand the basics of mapping science and cartography. 13. Develop a clear picture of geomatics applications in architecture.
<p style="text-align: center;">Indicative Contents</p> <p>المحتويات الإرشادية</p>	<p>Indicative content includes the following.</p> <p><u>Elements of Geomatics and Plane Surveying</u> What is geomatics? Types of surveying, importance of geomatics engineering in general life and in architecture, applications of geomatics in different fields of knowledge. [4 hrs]</p> <p><u>Measurements Technologies and Errors Theory</u> Types of measurements, measurement equipment, theory of errors, error calculations and analysis, types of errors and measurements adjustment. [8 hrs]</p> <p><u>Linear Measurements</u> Horizontal linear measurements, error modeling and adjustment, vertical linear measurement, leveling procedures, leveling adjustment, profiling and cross sectioning, constructions leveling. [12 hrs]</p> <p><u>Angular Measurement</u> Types of angles, angle measurement techniques and equipment, theory of directions, types of reference directions, angular error analysis, transformation among different directions. [8 hrs]</p> <p><u>Traversing</u> Types of traversing, forward and backward computations, traverse</p>

	<p>adjustment by balancing. [12 hrs]</p> <p><u>As Built Drawings and Mapping</u> Traditional and state of the art mapping techniques, mapping software, digital heritage documentation. [12 hrs]</p> <p>Geomatics Applications in Architecture Fundamentals of location analysis, GPS, GIS, Photogrammetry and mapping from space. [4 hrs]</p>
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Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	<p>The main strategies that will be adopted in delivering this module is direct instruction and active learning which will be achieved by brainstorming real issues and encourage students' participation in finding out how to deal with them. While at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by field application using available equipment.</p>
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Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	60	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	15	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	1
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	75		

Module Evaluation

تقييم المادة الدراسية

As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5, 10	LO #1, 2, 10 and 11
	Assignments	2	10% (10)	2, 12	LO # 3, 4, 6 and 7
	Projects / Lab.	1	10% (10)	Continuous	All

	Report	1	10% (10)	13	LO # 5, 8 and 10
Summative assessment	Midterm Exam	2 hr	10% (10)	7	LO # 1-7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Course Introduction and Definitions
Week 2	Measurements Technologies and Errors Theory – I
Week 3	Measurements Technologies and Errors Theory – II
Week 4	Linear Distance Measurement – Horizontal Distance
Week 5	Linear Distance Measurement – Leveling (I)
Week 6	Linear Distance Measurement – Leveling (II)
Week 7	Angular Measurement – Angles and Calculations
Week 8	Angular Measurement – Directions and Calculations
Week 9	Traversing – Surveying Framework
Week 10	Traversing – Travers Computations (I)
Week 11	Traversing – Travers Computations (II)
Week 12	As Built Drawings and Mapping (I)
Week 13	As Built Drawings and Mapping (II)
Week 14	As Built Drawings and Mapping (III)
Week 15	Geomatics Applications in Architecture
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Lab 1: Simple Field Skills
Week 2	Lab 2: Error Analysis Experiment (I)
Week 3	Lab 3: Error Analysis Experiment (II)

Week 4	Lab 4: Horizontal Distance Measurement and Adjustment
Week 5	Lab 5: Leveling Equipment
Week 6	Lab 6: Leveling Applications on Site
Week 7	Labs 7: Theodolite Equipment
Week 8	Labs 8: Angles Measurements
Week 9	Labs 9: Traversing Field Work
Week 10	Labs 10: Traversing Office Work
Week 11	Labs 11: Traversing Office Work
Week 12	Labs 11: Mapping Field Work
Week 13, 14	Labs 13-14: Mapping Office Work
Week 15	Labs 15: Student Conference

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	NA	
Recommended Texts	Charles D. Ghilani and Paul R. Wolf, Elementary Surveying: An Introduction to Geomatics, edition 14, Pearson, 2015.	No
Websites	NA	

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.

مقررات الفصل الرابع

نموذج وصف المادة الدراسية
التصميم المعماري IV

Module Information			
معلومات المادة الدراسية			
Module Title	Architectural design IV		Module Delivery
Module Type	Core		<input type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	Arch041		
ECTS Credits	11		
SWL (hr/sem)	275		
Module Level	UGx11 1	Semester of Delivery	
Administering Department	Architectural Engineering	College	College of Engineering
Module Leader	Dr. Anwar Fadhil	e-mail	anwar.f@uokerbala.edu.iq
Module Leader's Acad. Title		Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Dr. Haider Ibrahim	e-mail	haider.i@uokerbala.edu.iq
Scientific Committee Approval Date		Version Number	1.0

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

Module Aims, Learning Outcomes and Indicative Contents	
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	1- Teaching students how to prepare analytical studies for projects and derive conclusions to transform them into key themes in the design process. 2- Exposing students throughout the academic year to a variety of design

	<p>projects with diverse functions and varying levels of complexity.</p> <ol style="list-style-type: none"> 3- Instructing students on how to address different design and functional issues, employing appropriate solutions tailored to the specifics of each project while maintaining local uniqueness and integrating with the urban context. 4- Equipping students with the skills to work with various drawing scales and enhancing their ability to interpret volumes and the dynamic and visual relationships between spaces. 5- Practically applying architectural design in conjunction with building construction, technical drawing, and architectural visualization to enhance students' ability to present their projects in a way that closely resembles reality. 6- Training students to work with the third dimension (mass) by focusing on models to reinforce their understanding of the mass they design and its relationship with other horizontal and vertical plans. 7- Preparing students for the transition to the subsequent stage, which involves larger-scale, more comprehensive projects with diverse functions.
<p>Module Learning Outcomes</p> <p>مخرجات التعلم للمادة الدراسية</p>	<ol style="list-style-type: none"> 1- Understanding how to analyze projects, study site requirements and functions, and the impact of users on the design process. 2- Dealing with projects according to their functional and symbolic specificities. 3- Comprehending the spatial requirements for each activity and how to calculate them. 4- Working with basic geometric shapes and deriving the project form from them based on the specific constraints of each project. 5- Understanding the effects of viewpoints, movement, orientation, and the influence of sunlight and wind on the design process, as well as the appropriate visual and climatic solutions tailored to each project's uniqueness. 6- Focusing on how to analyze similar examples to enhance project understanding and develop the student's ability to visualize design requirements and relationships within the project. 7- Addressing specificity and gradation within each part and between parts within the whole at both vertical and horizontal planning levels.

	<p>8- The ability to navigate complex relationships between activities and interconnected spaces both vertically and horizontally.</p> <p>9- Capability to work with both local and modern materials during the design process.</p> <p>10- Considering the method of furnishing according to the specificity of each activity while emphasizing the design of circulation axes to enhance the student's understanding of how to operate the space and the performance of each activity.</p>
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<p>Indicative Contents المحتويات الإرشادية</p>	<p>The Guiding Content Includes the Following:</p> <p>Part A – Analytical Studies Understanding how to analyze site axes, functions, and similar examples for each project.</p> <p>Part B – Projects with Diverse Functions Engaging with a variety of projects that have different functions and complex relationships between their components.</p> <p>Part C – The Impact of Constraints and External Factors on the Design Process Learning how to address the constraints of each project, such as climatic factors, site specificity, and client requirements.</p> <p>Part D – Similar Examples Focusing on the analysis of similar examples in terms of functional and formal aspects, and how to solve design problems within those examples, leading to conclusions that students can apply during the design process.</p> <p>Part E – Relationships Between Components and Between the Part and the Whole Working with movement and visual axes, specificity, and both movement and visual isolation, as well as the relationships between components and between the part and the whole, tailored to the uniqueness of each project.</p> <p>Part F – Architectural Symbolism Understanding the meaning of symbolism, how to employ it in architecture, and its influence on the design process through a project that carries a specific symbolic dimension.</p>
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<p>Learning and Teaching Strategies استراتيجيات التعلم والتعليم</p>
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<p>Strategies</p>	<p>The Strategy is Based on Three Fundamental Pillars:</p> <ol style="list-style-type: none"> 1. Theoretical Lectures that provide students with the essential knowledge required for the assigned projects. 2. Project Critiques for Development and Evaluation: These critiques take two forms: group critiques and individual critiques.
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3. **Incorporation of a Series of Quick Assessments** to gauge the student's ability to make correct design decisions within a limited timeframe.

Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	180	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	12
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	95	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	7
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	275		

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5,10	1,2
	Assignments	15	15% (15)	2,12	All
	Projects / Lab.	2	10% (10)	Continuous	All
	Report	ALL	5% (5)	13	2
Summative assessment	Midterm Exam	6hr	10% (10)	7	All
	Final Exam	6hr	50% (50)	16	All
Total assessment				Total assessment	100% (100Marks)

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

Week	Material Covered
Week 1	An introductory lecture on the third project, which represents a project of a higher level and more complex functions, and carries a high symbolic and expressive dimension, and combines various construction systems.
Week 2	A lecture that deals with the analysis of similar examples in terms of location, form and function.
Week 3	Lecture on the nature of movement systems within multi-functional buildings
Week 4	Lecture on design criteria for Symbolic buildings
Week 5	Lecture on analyzing the conclusions of the study phase and transforming them into design

	concepts within an architectural composition
Week 6	Day Sketch
Week 7	Lecture on vertical and horizontal visual and kinetic relations between spaces
Week 8	A lecture on ways to deal with the third dimension of the composition (mass) and its projection onto the project site and its relationship with the surroundings by focusing on the design of the objects.
Week 9	Lecture on structural construction for buildings with large spaces
Week 10	Day Sketch
Week 11	Eid Al-Fitr holiday
Week 12	Lecture on designing facades and sections
Week 13	Pre-final Presentation
Week 14	Lecture on the method of presenting the final presentation
Week 15	Final presentation of the third project

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

Week	Material Covered
Week 1	Third Project + Scientific Trip
Week 2	studies Presentation 1+2
Week 3	studies Presentation 3+4
Week 4	studies pre-final Presentation + studies final Presentation
Week 5	Prelim presentation 1+2 (group discussion)
Week 6	Day Sketch
Week 7	Prelim Presentations 3 + 4 (Individual or group Discussions)
Week 8	Prelim Presentations 5 + 6 (Individual or group Discussions)
Week 9	Prelim Presentations 7 (Individual Discussions)
Week 10	Day Sketch
Week 11	Eid Al-Fitr holiday
Week 12	discussion
Week 13	Pre-Final Presentation of the Project
Week 14	discussion
Week 15	Final Presentation of the third Project

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts		
Recommended Texts	<ul style="list-style-type: none"> • Ching, F. D. (2007). <i>Architecture: Form, space, and order</i>. John Wiley & Sons. • Neufert, E., & Neufert, P. (2012). <i>Architects' data</i>. John Wiley & Sons. • Watson, D., Crosbie, M. J., & Hancock Callender, J. (1999). <i>Time saver standards for architectural design data</i>. The McGraw-Hill. • شيرين احسان شيرزاد- مبادئ الفن والعمارة 	Yes
Websites	https://archnet.org/ http://arch2o.com/ http://archdaily.com/ http://behance.com/ https://www.contemporist.com/ https://www.dezeen.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.

نموذج وصف المادة الدراسية
الرسم المعماري IV

Module Information			
معلومات المادة الدراسية			
Module Title	Architectural Drawing IV	Module Delivery	
Module Type	Core	<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Lab <input type="checkbox"/> Practical <input type="checkbox"/> Seminar	
Module Code	Arch032		
ECTS Credits	5		
SWL (hr/sem)	3		
Module Level	UGx11 1		
Administering Department	Architectural Engineering	College	College of Engineering
Module Leader	Faylaq Fathee M. Ali	e-mail	faylaq.f@uokerbala.edu.iq
Module Leader's Acad. Title	Ass . Lecturer	Module Leader's Qualification	Master
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	08/08/2024	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 الإرشادية	
Module Aims اهداف المادة الدراسية	1- Building and developing the student's expressive skills in addition to training him to use different materials and techniques in presentation. 2- Focusing on the gradual building of the student's skills through a clear sequence of exercises starting with exercises for calligraphy pens and ending with two-dimensional drawings represented by horizontal and vertical projections (Plans, Sections and Elevations). 3- Introducing the basic principles of three-dimensional drawings, especially the principles of drawing Axonometric & Isometric. 4- Presentation, by focusing on techniques with pencils, collage, wooden

	<p>pens, inking, and the principles of presentation with poster and watercolor colors.</p> <p>5- Stimulate the student's visual perception of shape, texture, sizes and their contrasts.</p> <p>6-Introducing how to derive different shapes and abstract them by analyzing the structure of the visual shape by referring to elementary geometric shapes such as the square, circle, and triangle.</p> <p>7- Developing the imagination in perceiving and understanding how three-dimensional blocks are formed, understanding the three-dimensional shape (isometric), changing viewing angles, and different projections, and sensing the mass and architectural formation through light, shadow, and different projections of lighting.</p>
<p>Module Learning Outcomes مخرجات التعلم للمادة الدراسية</p>	<ol style="list-style-type: none"> 1. Developing the student's ability to draw lines and surfaces 2. Sensitivity to the (Human Scale) 3. Identifying elementary geometric shapes and how they intersect within what the composition presents for the work. 4. Perceiving three-dimensional objects and drawing them on paper, giving a sense of the third dimension and the relationship between mass and space 5. Realize texture and texture through shade and shadows 6. Identifying three-dimensional shapes (isometrics) and projecting them 7. Recognizing the horizontal and vertical projections of architectural plans.
<p>Indicative Contents المحتويات الارشادية</p>	<p>Indicative content includes the following.</p> <p><u>Part A - Geometric shapes</u> Engineering shapes - Engineering drawing tools and methods of using them. Types of geometric and manual.. [12 hrs]</p> <p><u>- Geometric processes</u> The importance of geometric operations for the student's imagination, Methods of drawing tangents .Draw an arch , vault and dome .[9 hrs]</p> <p><u>Part B - Geometric projection</u> Introducing students to the principles and elements of geometric projection- Explaining projections and their importance in architecture- Meanings of lines in projections –Drawing isometrics from the three elevations. [15 hrs]</p> <p><u>Part C - Inking</u> Drawing with ink pen with several types of lines- Drawing geometric formations with ink. [6 hrs]</p> <p><u>Part D -Architectural perspective</u> Drawing in one and two point perspective, Drawing architectural shapes. Presentation in the elevations. [21 hrs]</p>

	Part E – Final project Building drawings have been selected, A hand drawing of the building is shown and presented in several stages ,Schematic drawings Final submission of the project. [12 hrs]
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Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	-Weekly practical exercises in class. -Home practical exercises. -Theoretical lectures and lectures power point
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Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	45	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	3
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	90	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	6
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	135		

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5, 10	LO #1, 2,3 and 5
	Assignments	2	10% (10)	2, 12	LO # 4,5 and 6
	Projects / Lab.	1	10% (10)	Continuous	All
	Report	1	10% (10)	13	LO # 3 and 4
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

Week	Material Covered
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Week 1	Introductory lecture on the horizontal plan
Week 2	Shadow and shadows
Week 3	Shadow and shadows
Week 4	Engineering perspective
Week 5	Engineering perspective
Week 6	Engineering perspective
Week 7	Engineering perspective
Week 8	Engineering perspective
Week 9	Engineering perspective
Week 10	Engineering perspective
Week 11	Day Sketch
Week 12	Visits to heritage sites - site drawings of the current situation transformed into scale drawings of parts or elements of facades / showing in ink pen
Week 13	Engineering perspective
Week 14	Engineering perspective
Week 15	Final Exam

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

Week	Material Covered
Week 1	Introducing students to the horizontal plan
Week 2	Definition of shadow and shadows on a horizontal chart
Week 3	Definition of shade and shadows for architectural facades
Week 4	Introducing the student to the geometric perspective, its types, concepts and basic elements in perspective.
Week 5	Introducing the student to one-point perspective
Week 6	Introducing the student to the two-point perspective
Week 7	Introducing the student to the perspective on the horizon line
Week 8	Introducing the student to perspective below the horizon line
Week 9	Introducing the student to perspective above the horizon line
Week 10	Introducing the student to the perspective that cuts the horizon line
Week 11	Day Sketch
Week 12	Visits to heritage sites - site drawings of the current situation transformed into scale drawings of parts or elements of facades / showing in ink pen

Week 13	Drawing a gable with two vanishing points
Week 14	Interior perspective with one vanishing point
Week 15	Final Exam

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	-Abdullah Al-Darisa, Dr. Muhammad, "Architectural Drawing", first edition, Arab Society Publishing Library, Amman, 2005. -Abdullah, Dr. Muhammad, "Architectural Display", Anglo-Egyptian Library. -Hamid, Muwafaq, "How to Draw Theoretically," Modern Library for Printing and Publishing, Beirut, Syria.	Yes
Recommended Texts	Ching, Francis D. K., "Architectural Graphics", Fourth Edition, John Wiley & Sons inc., New York.	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
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Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

نموذج وصف المادة الدراسية

تركيب مباني II

Module Information			
معلومات المادة الدراسية			
Module Title	Buildings Construction I I		Module Delivery
Module Type	Core		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	Arch043		
ECTS Credits	5		
SWL (hr/sem)	125		
Module Level	UGx11 2	Semester of Delivery	
Administering Department	Type Dept. Code	College	Type College Code
Module Leader	Name	e-mail	E-mail
Module Leader's Acad. Title	Professor	Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	0/0/2024	Version Number	2.0

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	Buildings Construction I I		Semester 2
Co-requisites module	None		Semester

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

<p>Module Aims أهداف المادة الدراسية</p>	<ol style="list-style-type: none">1- Preparing efficient cadres in the stages of building construction2- The ability to know the types of buildings with the project requirements and details3- Addressing site problems and investing its characteristics and components to serve the integrated scene4- Identifying the building requirements from all special requirements such as bricks, walls, moisture treatments and others5- The ability to know the important binding materials in construction with its special types6- The ability to identify the methods of heat transfer in buildings and the most important expansion joints and types of wood and other topics
<p>Module Learning Outcomes مخرجات التعلم للمادة الدراسية</p>	<p>A- Cognitive objectives (knowledge and understanding)</p> <p>A-1 Defining the basic principles in the stages of building construction or what can be called the details and requirements of the project and through the types of buildings in general and buildings constructed with load-bearing walls in particular.</p> <p>-2 Studying the development of building materials throughout history with a focus on the economic aspects and the most widely used in Iraq through the availability of raw materials.</p> <p>-3 Knowing the concepts of construction, walls, supports, partitions, foundations, floors and ceilings</p> <p>-4 Classifying materials such as bricks and other types such as wood in construction and types and qualities.</p> <p>-5 Characteristics and types of each element in the construction of expansion joints, insulators and barriers, and they are the advantages and disadvantages of each type</p> <p>-6 Components of building materials</p> <p>-7 Design components for building construction and project details and requirements</p> <p>B - Skill objectives (skills specific to the topic)</p> <p>-1 How to apply the lecture vocabulary to a real example</p> <p>-2 Prepare detailed designs for building joints and their elements, the materials they contain and the raw materials they contain.</p>

3 - The ability to identify appropriate environmental solutions in building designs and construction in various conditions.

-4 The ability for students to interact with each other within a single lecture in a discussion about the topic.

C- Emotional and value objectives (thinking skills)

C-1 - The ability to collect and analyze the details of the building and the project and its architectural and structural elements and the special reasons for using special types of building materials.

C-2 The ability to form creative design ideas that link the components of a single project with the accuracy of the details and the special use of each type of building materials.

C-3 Comparison between the different materials in the materials included in its composition and used for the same purpose..

C-4 The ability to suggest alternatives to approach design problems in a scientific manner and determine the appropriate method to address those problems.

D - General and transferable skills (other skills related to employability and personal development).

D1 The ability to know the materials included in the construction and link it to the building

D2 Selecting the distinguished basic materials for the purpose of presenting them to students in the form of a lecture or discussion with student participation.

D-3 Developing his/her personality and it is an educational and teaching process at the same time

D-4 The teaching staff seeks, through the student's progression in the study, to build bridges of the relationship that connects them, where there is a relationship between the student and the professor during education and an educational relationship during the provision of advice and guidance and a relationship of guidance and counseling through the educational advisor and a relationship of fellowship at work to prepare him/her to deal with his/her subordinates upon graduation and joining one of the institutions, companies or departments.

D-5 Ability to work with others in a disciplined manner within a single work team.

D-6 Full awareness of the ethical and practical responsibility of group and individual work.

D-7 Ability to present, discuss and defend ideas orally, in writing and electronically.

	D-8 Ability to understand and comprehend the English language within the technical level related to the field of specialization.
Indicative Contents المحتويات الإرشادية	Part A - Working drawings -Working drawings (horizontal plans) (20 hour) Part B -Working drawings (vertical plans) (20 hour) Part C -Working drawings (details) (15 hour)

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	The course adopts the Learning by Doing strategy, where specific topics are discussed and an attempt is made to apply them practically directly in the studio. The course professor expands the discussion of the topic through the problems that students encounter during the practical application and thinking together about their causes and how to address them and theorize them in detail, while clarifying and detailing the importance of the topic presented for the architect academically and professionally, and linking the topic to the scientific research aspects and the professional applied aspects in the labor market.
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Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	78	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	5
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	47	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	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)	5, 10	LO #1, 2, 10 and 11
	Assignments	15	20% (20)	2, 12	LO # 3, 4, 6 and 7
	Projects / Lab.	1	5% (5)	Continuous	All
	Report	1	5% (5)	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	Learn about working drawings, and how to make a site plan and foundation.
Week 2	Basements (Basements and semi- Basements)
Week 3	working drawings (ground floor plan - first floor plan)
Week 4	working drawings (roof plan) Resistance to environmental factors in ceilings
Week 5	Doors Types of doors in terms of opening method + materials used in their manufacture
Week 6	Windows Types of doors in terms of opening method + materials used in their manufacture

Week 7	Finishing materials Part One (Finishing of interior and exterior walls)
Week 8	Finishing Materials Part Two (Floor and Ceiling Finishing)
Week 9	Services (sanitary and electrical works)
Week 10	Elevation , sections
Week 11	Structural joints& working drawing of details
Week 12	Submission of pre-final drawings and working drawings
Week 13	Introduction to structural building elements& Types of foundations for concrete structural buildings- columns and beams
Week 14	Exam
Week 15	Submission of final drawings and working drawings

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Drawing a site plan and foundation
Week 2	Drawing section in the basement (complete and semi)
Week 3	Drawing a (ground floor plan - first floor plan)
Week 4	Drawing a (roof plan)& Pre-final submission of ground and first floor plan
Week 5	Drawing (doors + details).
Week 6	Drawing (windows + details).
Week 7	Drawing (Finishing materials)
Week 8	Drawings (Finishing Materials)
Week 9	Drawings (Services)
Week 10	Drawing Elevation , sections
Week 11	working drawing of details

Week 12	Submission of pre-final drawings and working drawings
Week 13	
Week 14	Submission of final drawings and working drawings
Week 15	

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Building Construction Book / Zuhair Sako Building Construction Book / Atef Al-Suhairi Building Construction Book / Anis Jawad	Yes
Recommended Texts	<ul style="list-style-type: none"> Building construction : Structure & Fabric ,Part2, Mitchell The construction of building Vol.1&2,Barry 	No
Websites	www.youtub	

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.