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



وصف البرنامج الأكاديمي والمقرر الدراسي

وصف البرنامج الأكاديمي

اسم الجامعة: جامعة الموصل

الكلية/ المعهد: كلية الهندسة

القسم العلمي: قسم الهندسة المعمارية

اسم البرنامج الأكاديمي او المهني: بكالوريوس / هندسة عمارة

اسم الشهادة النهائية: بكالوريوس علوم في الهندسة المعمارية

النظام الدراسي: بولونيا -فصلي- مقررات

تاريخ اعداد الوصف: 20/3/2024

تاريخ ملء الملف: 20/3/2024

التوقيع: اسم المعاون العلمي: أ.م. د. ايمن طالب حميد التاريخ:

التوقيع: اسم رئيس القسم: أ.م.د. عمر خروفة التاريخ:

دقق الملف من قبل شعبة ضمان الجودة والأداء الجامعي اسم مدير شعبة ضمان الجودة والأداء الجامعي:

> التاريخ التوقيع

مصادقة السيد العميد

١. رؤية البرنامج

تتمثل الرؤية في أن يكون قسم هندسة العمارة في جامعة الموصل مدرسة معمارية مميزة تحاكي نظيراتها على المستوى المحلي والعالمي، من خلال ما يحمله من إمكانات وما يتوفر فيه من خبرات، وذلك بالاسهام في بناء هوية واضحة للبيئة العمرانية المحلية تحقق أهداف الاستدامة الحضارية كجزء من التنمية المستدامة المنشودة عبر التوافق بين الاصالة والحداثة والاستناد الى الاصول الحضارية العريقة كمرجع فكري رصين مع مواكبة التطورات العلمية والتقنية الحديثة على مستوى العالم باعتماد مفاهيم الاستدامة العمرانية والالتزام بمعايير الجودة العالمية .

٢. رسالة البرنامج

رسالة قسم هندسة العمارة تكمل رسالة كلية الهندسة وجامعة الموصل من خلال تقديم برامج تعليمية عالية الجودة في مختلف التخصصات وعلى جميع المستويات. تهدف هذه البرامج إلى تأهيل خريجين ذوي كفاءة عالية قادرين على المساهمة في التنمية المعرفية والاقتصادية والاجتماعية والعلمية للمجتمع، مع الالتزام بالقيم الأخلاقية والمهنية.

يسعى القسم إلى إيجاد بيئة تعليمية مستقرة تدعم الإبداع الفكري وتحترم حقوق الإنسان، مع الحفاظ على البيئة والتوظيف الأمثل للتكنولوجيا الحديثة. كما يحرص القسم على توفير كوادر أكاديمية مؤهلة وتقديم خدمات استشارية فنية لتعزيز أداء مؤسسات المجتمع.

يعمل القسم على إنتاج بحوث إبداعية تسهم في بناء مجتمع المعرفة، ويدعم المجتمع بكوادر هندسية معمارية مؤهلة للمساهمة في مشاريع الإعمار. كما يقدم خدمات استشارية هندسية تلبى احتياجات المجتمع وتساهم في تطوير مدينة الموصل وعموم العراق.

يسعى القسم للحفاظ على الهوية الحضارية والقيم الأصيلة من خلال طرح أفكار مستمدة من تاريخ البلد العربق، مع التوافق مع متطلبات العصر الحديث والتقدم التكنولوجي السريع في مختلف مجالات الحياة.

٣. اهداف البرنامج

- إعداد كوادر مؤهلة علمياً ومهنياً وتربوياً في مختلف المجالات المعرفية وفقاً لمعايير جودة عالية.

- تعزيز البحث العلمي في العلوم النظرية والتطبيقية، مع تشجيع المبادرات المرتبطة ببرامج التنمية، والحرص على مواكبة التطورات العلمية العالمية والتخطيط للمستقبل.
- التطوير المستمر للمناهج الدراسية في المرحلتين الجامعية والدراسات العليا، بما يتناسب مع المستجدات العلمية والمنهجية والتقنية الحديثة.
 - المشاركة في خدمة المجتمع من خلال التفاعل المستمر مع مؤسسات الدولة وتقديم الاستشارات العلمية، وتعزيز برامج التعليم المستمر.
 - ربط العمارة بالتخصصات الهندسية الأخرى وتنمية العلاقات معها، باعتبارها جزءاً أساسياً من نهضة المجتمع.
 - التأكيد على دور هندسة العمارة في بناء المجتمع وتحسين البيئة التي يعيش فيها الناس.
 - إعداد خريجين معماريين وفق قواعد علمية تمكنهم من ممارسة المهنة بكفاءة في التصميم المعماري والحضري وتخطيط المدن والفضاءات الداخلية والخارجية، إلى جانب الحفاظ على التراث والآثار وفق الأساليب العلمية.
- تنفيذ برامج عملية واضحة تهتم بتكنولوجيا الاستدامة ومعايير الجمال المعماري، مع مواكبة التطور في الدول المتقدمة من خلال توفير برنامج تعليمي معماري يعتمد على التقنيات الحديثة في المجالات الهندسية والفنية.
- التركيز على جودة العملية التعليمية في العمارة من خلال اختيار مناهج دراسية متخصصة وحديثة باستمرار، وإنجاز تقارير التقييم الذاتي بهدف الحصول على الاعتماد الأكاديمي.
 - تمكين الكوادر التدريسية في قسم هندسة العمارة من خلال زيادة نسبة حملة شهادات الدكتوراه مقارنة بحملة الماجستير.
- الاهتمام بالبحوث العلمية التطبيقية وتصميم المشاريع التطبيقية لتعزيز الشراكات والعلاقات مع المؤسسات والجامعات المرموقة.
- تطوير مهارات الخريجين من خلال توفير دورات التعليم المستمر التخصصية والحفاظ على التواصل معهم بما يعزز تحقيق رسالة القسم.

			ے	٤. هيكلية البرناه
ملاحظات *	النسبة المئوية	وحدة دراسية	عدد المقررات	هيكل البرنامج
مقرر اساسي	8%	10	٦	متطلبات الجامعة
مقرر اساسي	4%	٦	٣	متطلبات الكلية
	88%	127	70	متطلبات القسم
			يوجد	التدريب الصيفي
				أخرى

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

		ف البرنامج	٥. وص	
المعتمدة	الساعات	2 11 (7 11 ·	السنة /
عملي	نظري	اسم المقرر	رمز المقرر	المستوى
6	2	التصميم والرسم المعماري(١)	ARC111	
3	1	الهندسة الوصفية والرسم الهندسي	ARC112	
	2	الفن والعمارة	ARC113	<u>٠</u>
	2	اللغة العربية	ARC114	7-3,
2	2	الرياضيات ١	ARC115	>
	2	الديمقراطية وحقوق الانسان	ARC116	/ الاوا
6	2	التصميم والرسم المعماري(١)	ARC121	
3	1	الرسم اليدوي الحر	ARC122	۲۰۲۰ / الأول-نظام مسار بولونیا
1	2	الانشاء ومواد البناء	ARC123	ار بوا
2		أساسيات الحاسوب	ARC124	ونتا
2	2	الرياضيات ٢	ARC125	
2		الإنكليزية للمبتدئين	ARC126	
8	2	التصميم المعماري ٢	ARC 211	<u>ئ</u>
4		الرسم اليدوي ٣	ARC 212	, ,
	2	تاريخ عمارة قديمة	ARC 214	۲۰۲ / فصلي
2	1	الرسم بمساعدة الحاسوب ١	ARC 215	۲۰۲۰ / الثاني -نظام فصلي
2	1	ترکیب مبانی ۱	ARC 216	`b. :d
	2	اللغة الانكليزية- دون المتوسط	UoM 212	14

	2	الميكانيك الهندسي	STR 217	
2	1	المساحة	SUR 218	
	2	مبادئ الاحصاء وتطبيقاته	MAT 213	
8	2	التصميم المعماري ٢	ARC 211	
3	1	الظل والمنظور	ARC 223	
	2	تاريخ عمارة اوربية	ARC 224	
2	1	الرسم بمساعدة الحاسوب ٢	ARC 225	
2	1	ترکیب مبانی ۲	ARC 226	
	2	مبادئ الاسكان	ARC 227	
	2	مقاومة المواد	STR 227	
2	1	مختبر فحص المواد	STR 222	
	2	الفنون الاسلامية (اختيارية)	ARC 228	
	2	العمارة والعلوم الانسانية (اختيارية)	ARC 229	
	2	مبادئ التصميم الهندسي	ENGE337	
8	1	التصميم المعماري(٥)	ARC 341	
4	1	الرسوم التنفيذية(١)	ARC 342	
	2	خدمات المباني (١)	ARC 343	
2	1	الخرسانة المسلحة (١)	ARC 344	
	2	مبادئ التخطيط	ARC 345	*
2	1	تقنيات الاظهار المعماري بالحاسوب	ARC 346	>
	2	اللغة الانكليزية- المتوسط		۲۰۰۱/
8	1	التصميم المعماري (٦)	ARC347	
	2	تاريخ العمارة (2)	ARC348	-٤٧٠٢ / الثالث – نظام المقررت
2	1	الخرسانة المسلحة (٢)	ARC349	لام المن
	2	خدمات المباني(٢)	ARC350	نررت
4		الرسوم التنفيذية(٢)	ARC351	
	1	المنطق ومنهجية التصميم	ARC352	
2	1	تطبيقات التخطيط والاسكان	ARC361	
	2	نظم التحكم البيئي	ARC362	
	2	التشريعات العمرانية	ARC363	

10	2	التصميم المعماري	ENAR-401	المرحا
2	1	التصميم الداخلي	ENAR-402	المرحلة الرابعة
2	1	تصميم فضاءات خارجية	ENAR-403	
	2	عمارة إسلامية	ENAR-404	نظام
	2	تقنيات البناء المتقدم	ENAR-405	المقرره
	2	نظرية العمارة	ENAR-406	'J
	2	الإسكان	ENAR-407	٠ ٢
	2	نظرية التصميم الحضري	ENAR-408	– نظام المقررت / ۲۰۲۳ – ع۲۰۲
	2	العمارة والمناخ	ENAR-409	~
	2	العمارة والصوت	ENAR-410	
	2	برمجة فضاءات معمارية	ENAR-411	
	2	تصاميم المنشات الفولاذ	ENAR-412	
6	2	الاطروحة التصميمية ١	ENAR-501	اعر
10	2	التصميم الحضري	ENAR-502	<u> </u>
14	2	الاطروحة التصميمية ٢	ENAR-503	خامسة
	2	نظريات النقد المعماري	ENAR-504	— स्टीव ४. ४
	2	العمارة العراقية المعاصرة	ENAR-505	المرحلة الخامسة – نظام المقررت ۲۰۲۶
	2	العمارة العربية المعاصرة	ENAR-506	نرن
	2	التخمين والمواصفات	ENAR-507	} } !
	2	ممارسة المهنة	ENAR-508	١

٦٠ مخرجات التعلم المتوقعة للبرنامج

المعرفة

1أ. تشمل مبادئ العلوم الأساسية والتطبيقية والهندسية الضرورية لتقديم تخصص هندسة العمارة، مثل الرياضيات والهندسة المجسمة والفيزياء والرسم الهندسي والإحصاء والتقنيات الحاسوبية والأتمتة.

1. تغطي علوم هندسة العمارة التخصصية جوانب متنوعة من التصميم المعماري والتنفيذ والإنشاء والرسوم التنفيذية والرسم المعماري والحر، بالإضافة إلى التصميم الداخلي وتصميم الفضاءات الخارجية والتصميم الحضري وتخطيط المدن. تهتم هندسة العمارة بالعديد من الجوانب وتتفاعل مع العديد من العلوم وتساهم في تطبيقات مهمة في الحياة اليومية.

٣أ . الأهداف المهنية والأسس المساندة: تشمل المهارات الداعمة للتطبيق ضمن أطر نظرية، مثل كتابة التقارير والبحوث، بالإضافة إلى المعرفة بالمحددات الاقتصادية والقانونية والصحية والاجتماعية والأمنية.

المهارات

اب. مهارات التصميم: اكتساب القدرة على إنشاء تصاميم معمارية مبتكرة ومستدامة، بما في ذلك التصميم الداخلي وتصميم الفضاءات الخارجية والحضرية.

٢ب. مهارات البحث والتحليل: تطوير مهارات البحث وجمع المعلومات وتحليلها لتطبيقها في مشاريع
 التصميم، بما في ذلك الاعتبارات البيئية والاقتصادية والاجتماعية.

٣.ب. مهارات التواصل والتعاون: تعزيز مهارات التواصل الفعال والعمل الجماعي مع زملاء الدراسة
 والمتخصصين في مجالات متعددة، بما في ذلك كتابة التقارير وعرض الأفكار بشكل واضح ومقنع.

القيم

ج١ الإبداع والابتكار: تعزيز قيم الإبداع والابتكار في عملية التصميم والبحث، مما يسهم في تطوير حلول معمارية مبتكرة ومستدامة.

ج٢ المسؤولية الاجتماعية والبيئية: تعزيز الوعي بالمسؤولية الاجتماعية والبيئية للمهندس المعماري، وضمان تطبيق مبادئ التنمية المستدامة في مشاريع التصميم والبناء.

٧. الاعتماد البرامجي

لا يوجد

٨. المؤثرات الخارجية الأخرى

لا يوجد

٩. طرق التعلم وأساليب التعليم

- المحاضرات النظرية التي تقدم المعرفة الأساسية والتخصصية في مجال هندسة العمارة.
- التطبيقات العملية في المراسم والمختبرات، حيث يطبق الطلاب المفاهيم النظرية ويكتسبون مهارات عملية.
 - المناقشات والجلسات الحوارية التي تشجع على تبادل الأفكار وتعزيز التفكير النقدي والتحليل.
 - استثمار التقنيات الحاسوبية والوسائل التقنية المتقدمة، مما يعزز تعلم الطلاب ويوفر لهم أدوات حديثة للتصميم والبحث.

١٠. طرق التقييم

- الامتحانات الفصلية والنهائية لتقييم فهم الطلاب للمقررات والمناهج الدراسية.
 - الامتحانات القصيرة لقياس استيعاب الطلاب للمواد بشكل دوري.
- الاختبارات العملية التي تتيح للطلاب تطبيق المفاهيم والمهارات المكتسبة في بيئة عملية.
- المناقشات المفتوحة التي تسمح للطلاب بالمشاركة في الحوار وتبادل الأفكار لتقييم فهمهم وقدرتهم على التحليل والنقد.

١١. طرق التقييم

- الامتحانات الفصلية والنهائية لتقييم فهم الطلاب للمقررات والمناهج الدراسية.
 - الامتحانات القصيرة لقياس استيعاب الطلاب للمواد بشكل دوري.
- الاختبارات العملية التي تتيح للطلاب تطبيق المفاهيم والمهارات المكتسبة في بيئة عملية.
- المناقشات المفتوحة التي تسمح للطلاب بالمشاركة في الحوار وتبادل الأفكار لتقييم فهمهم وقدرتهم على التحليل والنقد.

			تدريسية	١٢. الهيئة ال
		ة التدريس	أعضاء هيئ	
د التدريسية -	اعداد الهيئا	المتطلبات/المهارات الخاصة (ان وجدت)	التخصص	الرتبة العلمية
محاضر	ملاك		عام	
	٠.		هندسة العمارة	استاذ مساعد
	۲۱		هندسة العمارة	مدرس
	١٧		هندسة العمارة	مدرس مساعد

	التطوير المهني
	توجيه أعضاء هيئة التدريس الجدد
○ الدورات التدريبية	° دورات طرائق التدريس
 الندوات العلمية والورش والحلقات 	· دورات التعليم المستمر
الدراسية	
	التطوير المهني لأعضاء هيئة التدريس
روسة تهدف إلى تحسين واقع البرنامج التعليمي وفق	يتم تطوير البرنامج الأكاديمي من خلال تنفيذ خطط مدر
	منهج واضح، وتشمل هذه الخطط:

- تطوير الكادر التدريسي: توفير فرص التدريب والتطوير المستمر لأعضاء هيئة التدريس لزيادة كفاءتهم وتنمية إمكاناتهم في التدريس والبحث.
 - الاهتمام بالمناهج وأدواتها النظرية والتطبيقية: تحديث المناهج بشكل دوري لضمان مواكبتها لأحدث التطورات العلمية والتقنية، وتوفير أدوات تعليمية متطورة تتناسب مع احتياجات الطلاب.
- التعامل الناجح مع الطالب: التركيز على تطوير مهارات التواصل بين أعضاء هيئة التدريس والطلاب، والاستماع إلى احتياجات الطلاب وتقديم الدعم اللازم لهم، مما يسهم في تحسين تجربة التعلم.
- تقييم المخرجات التعليمية: اعتماد الطالب كأداة رئيسية لتقييم المخرجات التعليمية من خلال أدائه وتقدمه الأكاديمي، وما يمكن أن يحققه من نتائج إيجابية تعود بالنفع على المؤسسة التعليمية والمجتمع. من خلال هذه الخطوات، يتم تحسين جودة البرنامج الأكاديمي وتعزيز دوره في تلبية احتياجات الطلاب

١٣. معيار القبول

والمجتمع.

معيار القبول المركزي من وزارة التعليم العالى والبحث العلمي

1 1. أهم مصادر المعلومات عن البرنامج

- القوانين والتعليمات
- الاطلاع على آخر المستجدات والتوجيهات
- الانفتاح نحو البرامج المناظرة ومواكبتها باستمرار.

١٥. خطة تطوير البرنامج

ان وضع خطة لتطوير البرنامج الأكاديمي لقسم هندسة العمارة في جامعة الموصل يتطلب تحديد أهداف ورؤية واضحة، ووضع خطوات استراتيجية لتحقيق تلك الأهداف. تشمل هذه الخطة العناصر التالية:

- ١. تقييم الوضع الحالي: تحليل البرنامج الأكاديمي الحالي لتحديد نقاط القوة والضعف والفرص والتحديات.
 - ٢. وضع أهداف تطويرية: تحديد أهداف تطويرية واضحة للبرنامج، مثل تحسين جودة التدريس، وتعزيز البحث العلمي، وزيادة مشاركة الطلاب في الأنشطة الأكاديمية.
- ٣. تحديث المناهج: مراجعة المناهج الدراسية وتحديثها لتكون متوافقة مع أحدث التطورات العلمية والتكنولوجية
 في مجال الهندسة المعمارية.
 - ٤. تطوير الكادر التدريسي: توفير فرص التدريب والتطوير لأعضاء هيئة التدريس لتحسين مهاراتهم في التدريس والبحث العلمي.

- تحسين البنية التحتية: الاستثمار في تحسين المرافق والمختبرات والموارد التعليمية لتوفير بيئة تعليمية حديثة ومحفزة.
 - تعزيز الشراكات: إقامة شراكات مع المؤسسات الصناعية والأكاديمية الأخرى لتعزيز تبادل المعرفة والخبرات وتوفير فرص تدريب للطلاب.
- ٧. تشجيع البحث العلمي: دعم البحوث العلمية التطبيقية والتعاون مع جهات خارجية لتوفير فرص للطلاب
 وأعضاء هيئة التدريس للمشاركة في مشاريع بحثية.
 - ٨. تقييم الأداء: وضع آليات لتقييم أداء البرنامج الأكاديمي بانتظام، بما في ذلك تقييم الطلاب والخريجين
 وأعضاء هيئة التدريس.
 - ٩. مشاركة الطلاب: تشجيع مشاركة الطلاب في عملية تطوير البرنامج من خلال استبيانات ومناقشات للتعرف على احتياجاتهم واقتراحاتهم.
- ١٠. التواصل المستمر: الاستمرار في التواصل مع خريجي القسم لمعرفة مدى استفادتهم من البرنامج وكيف يمكن تحسينه.

بتنفيذ هذه الخطوات، يمكن وضع خطة شاملة لتطوير البرنامج الأكاديمي لقسم هندسة العمارة في جامعة الموصل وتحقيق أهداف تعليمية عالية الجودة.اعتماداً على نتائج التحليل للبيانات يتم اعلام رئاسة القسم بالمقترحات والتوصيات التي توصلت اليها هيئة التدريس.

نماذج مختارة لوصف المقرر

	معلومات المادة الدراسية						
Module Title	Archit	tecture Design and	Graphic	•	Module Delivery		
Module Type	Core				✓ Theory		
Module Code	ARC1	11			✓ Lec Lab	ture	
ECTS Credits	12				Tutorial ✓ Prac	etical	
SWL (hr/sem)	300					ninar	
Module Level		UGI	Semest	er o	of Delivery	1	
Administering Department		ARC	Colle ge	C	COE		
Module Leader	Ahmed Al-Fakhry e-mail			<u>ał</u>	nmed.alfakhry	@uomosul.edu.iq	
Module Leader's A Title	Assist. Prof		Module Qualifie			M.Sc	
Module Tutor	OMAF ALHIA	R ADIL SABAH ALY	e- mail	<u>01</u>	mar.sabah@uo	omosul.edu.iq	
Peer Reviewer Nan	ne	Reem Al- Othman Isra malallah aziz	e- mail			@uomosul.edu.iq @uomosul.edu.iq	
Scientific Committee Approval Date		Versi on Num ber	1.	.0			
		Relation w					
	العلاقة مع المواد الدراسية الأخرى						
Prerequisite module				N	one	Semester	
Co-requisites module				N	one	Semester	
		le Aims, Learning C لم والمحتويات الإرشادية					

• Theoretical part: Introduction, Primary Elements, Visual proportion of form, Primary shapes, Platonic solid, Regular and irregular forms, Transformation of form, Additive forms, Formal collisions of geometry, Articulation of form, Defining space with horizontal & vertical elements, Closure, Qualities of Architectural Space, Openings in space / Lighting, Spatial Relationships, Spatial Organizations, Circulation, Proportion and Scale, Practice/ Preliminary Presentation Ordering Principles, Practice/ Development Introduce students to the concept of Architecture Design and Graphic in its general and applied context, highlighting its role in the field of architecture.

- Achieve a comprehensive understanding of Architecture Design and Graphic as an idea and its application in the context of architecture.
- Understand the relationship between Architecture Design and Graphic and the art of architecture, with a focus on ways to develop Architecture Design and Graphic through architectural work.
- Familiarize students with Architecture Design and Graphic, including their fundamentals, Additionally, students become acquainted with the details related to Architecture Design and Graphic, especially modern systems used in contemporary architectural buildings.
- Explore a range of Architecture Design and Graphic
- Open new horizons for students to explore architectural ideas.
- Enhance the role of students and activate their participation by presenting reports on Architecture Design and Graphic, and buildings. These reports are discussed Architecture Design and Graphic
- Bridging the Gap between academic theories and practical applications and explore the details of Architecture Design and Graphic in architectural buildings and understanding, helping students enhance their practical and theoretical skills in this field.
- Inform students by practice about:
- Architectural elements (point, line, plane, & volume) and elements of design (line,
- direction, shape, size, texture, value, & color) to achieve Unity in design according to
- design principles.
- The concepts of mass & space in architectural design
- Influence of structural principles on architectural composition
- Influence of human scale and functions on architectural design
- Local identity in architecture

Module Aims أهداف المادة الدراسية

	Identify the	concept	of Design and Graphic and its role i	in Architecture.		
		_	elationship between Architecture De	sign, Graphic and art in		
		-	ys to develop it.			
		_	nts with Architecture Design and Gra	_		
	 Studying 1 Graphic. 	architec	tural projects and their use of Aı	rchitecture Design and		
	-		ration of architectural ideas and A	rchitecture Design and		
	•	-	oles through report presentations and	d discussions		
			neories with practical applications a			
Module	exercises.		r	8		
Learning	• Encouragin	g active	learning and collaborative work amo	ong students.		
Outcomes	Effective co	ommunic	ation with Architecture Design and	Graphic.		
	· · · · · · · · · · · · · · · · · · ·	-	rely as a team member, providing lea	adership, collaboration,		
مخرجات التعلم	and goal ac					
للمادة الدراسية	_	-	learning Architecture Design and Gr ntations showcasing students' skills	_		
	Acquiring a	and apply	ring new knowledge using Architector	ure Design and Graphic		
	learning str	•				
	 Program sk 	_				
		exercises	and small projects in design studio	os, Design work in the		
	design					
	 studio occupies the main part in the course with a significant role of high- quality. 					
	 quanty. architectural rendering in presenting results. 					
	_		cept of advanced Architecture Desig	gn and its relationship		
	to architect		elements and principles of advanced	A rahitaatura Dasian		
Indicative			ir applications in contemporary glob			
Contents	-		ents and principles of advanced Arch	1 0		
المحتويات	-	_	ificant classifications.			
الإرشادية			and principles of advanced Architec			
	-		nd their applications in global project ples of advanced Architecture Desig			
	internation			in and Grapine, with		
		Learnin	g and Teaching Strategies			
			استراتيجيات التعلم والتعا			
			ents' active participation through pro	_		
			about the important elements and prign and Graphic.	morpres of advanced		
			eractive learning important elements	and principles of		
Strategies			cture Design and Graphic by impler	_		
Sumegres	_		tudents explore and research the Arc	_		
			porary building elements, and new as			
principles, leading to discussions and a deeper understanding of the subj				manding of the subject		
•						
			lent Workload (SWL)			
	1	٥١ أسبوع	الحمل الدراسي للطالب محسوب لـ			
Structured SW			Structured SWL (h/w)			
نتظم للطالب خلال	الحمل الدراسي الم	123	الحمل الدراسي المنتظم للطالب أسبوعيا	8		
القصل			الحمل الدراسي المنتصم للتعالب النبوحي			
Unstructured	SWL (h/sem)	177	Unstructured SWL (h/w)	11.8		

الحمل الدراسي غير المنتظم للطالب خلال الفصل		الحمل الدراسي غير المنتظم للطالب أسبوعيا	
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال	300		
الفصل			

Module Evaluation تقييم المادة الدراسية

As		Time/Num ber	Weight (Marks)	Week Due	Relevant Learning Outcome
	Report	2	5%	22,26	22,26
Forma tive	(Day Sketch	1	10% (10)	9	3,6
assess	Final Presentation	10	50%	4,8,10,14,16,24,26,28 ,29,31	6,8,9,10,11,1 2,13,14
ment	Discussions&Analysis teams work	2	5%(10)	22,26	
Summ ative	Midterm Exam(Day Sketch 1)	2 hr	20% (20)	31	
assess ment	Final Exam (Day Sketch2)	4	10% (10)	32	
Total assessment		100% (100 Marks)			

FIRST SEMISTER (Weekly Syllabus)

المنهاج الاسبوعي

Gg	Material Covered	
Week 1	General introduction	General principles.
Week 2	Engineering tool, elements	Architectural Compositions.
Week 3	Architectural design principles	Pencils Techniques.
Week 4	Point	Types of Lines (one dimension) Final Presentation
Week 5	Line (one dimension) linear elements	Day sketch.
Week 6		Engineering shapes (Circle, Square, Triangle)etc.
Week 7	Plan(2D) walls, roofs, floors	Regular & Irregular in practice.
Week 8	Volumes components of volume, volume dual.	Presentation in graphics. Final Presentation
Week 9	Form (3d).	Day sketch.
Week 10	Properties of form.	Texture in Architecture &Materials. Final Presentation
Week 11	Primary shapes, primary solids.	Light Degrees between (white, gray & black)
Week 12	Irregular shapes, transformation of form	Use Colors between Art composition & Engineering shapes.

W	eek 13	Method of a joining forms	Collage.
W	eek 14	Types of compositions	Planes (two dimensions) Final Presentation.
W	eek 15	Edges, Articulation of forms	Day Sketch.
W	eek 16	Engineering Volumes (three dimension	s). Final Presentation
		SECOND SEMISTER (Weekly S	Syllabus)
		المنهاج الاسبوعي	
Week	Material Co	vered	
Week 17	Form & space	ce, surface& edge	Dimensions & Architectural design
Week 18	Functional a circulation,	nalysis in Architecture, organization, proportion	The relation between shape & space.
Week 19			Indoor & outdoor Function.
Week 20	Residential	function	Residential Use ant its concentrates.
Week 21	Small house	design	Day Sketch.
Week 22	Report , Di	scussions& Analysis team's work	Functional Analysis of house
Week 23	Indoor & ou	tdoor movement	Bedrooms, living rooms, kitchens, Bath rooms.
Week 24	Vertical mov	vement	Human Scale. Final Presentation
Week 25	Mass & outo	loor Environment	The Relation between Human Scale & Architecture.
Week 26	Report, Disc	cussions& Analysis team's work	Furniture design. Final Presentation
Week 27	Furniture		Day Sketch.
Week 28	Plans		Plans drawing Final Presentation
Week 29	Elevations		Elevations drawing & its details. Final Presentation
Week 30	Sections		Sections Drawing.
Week 31	Pre. Final Pr	resentation, Exam	The Relation between indoor & outdoor functions in site plan .

XX7 1	~: 1 0 1	175							
Week	Site plan& lan	d Scaj	pe Design	nal Presentation &					
32									
			Learning a	nd Teach	ing Resources				
مصادر التعلم والتدريس									
				T	ext	Available in the			
						Library?			
Required	Texts			-	te and Order, Franic Chin Company, New York, 199	~ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
Recomm	ended Texts	USA form and	(Gelernton", Manchester NEW YORK- The Art oves, McGraw I	<u> </u>					
Websites									
				g Schem ط الدرجات					
Group	Grade		التقدير	Mark s (%)	Defin	ition			
	A – Excel	ent	امتياز	90 - 100	Outstanding l	Performance			
Success	B - Very G	ood	جيد جدا	80 - 89	Above average v	vith some errors			
Group (50 -	C – Goo	d	ختد	70 - 79	Sound work with	n notable errors			
100)	D – Satisfacto	ory	متوسط	60 - 69	Fair but with maj	or shortcomings			
	E – Suffic	ent	مقبول	50 - 59	Work meets mi	nimum criteria			
Fail			راسب (قيد المعالجة)	(45- 49)	More work required	but credit awarded			
Group (0 – 49)	F – Fai		راسپ	(0- 44)	Considerable amour	nt of work required			

Module Information معلومات المادة الدراسية										
Module Title	Module Title Descriptive geometry & Engineering Drawing						Module Delivery			
Module Typ	e S					- □ Theory				
Module Cod	le ARC112	2			□ In ⊠ Le	-				
ECTS Credits	٦					torial				
SWL (hr/sem)	150			□ Se						
Module Lev	el	UGI	Semester o	f Delivery 1			1			
Administering Department			ARC	College	COE					
Module Leader	A cool Ibrohim Kholil			e-mail	reemalothman@uomosul.edu.iq Aseel.ibrahim@uomosul.edu.iq			•		
Module Lea Title	der's Acad.		Teacher	Module Le	Module Leader's Qualification Pl			Ph.D).	
Module Tutor	Mafaz Tario	q		e-mail	E-mail	E-mail				
Peer Review	ver Name		Name	e-mail	E-mail					
Scientific Con Approval Dat			Version Number 1.0			0				
	Relation with other Modules									
	العلاقة مع المواد الدراسية الأخرى									
Prerequisite	module	No	one			Semester				
Co-requisite	s module	No	one				Semester			

Module Aims, Learning Outcomes and Indicative Contents						
	أهداف المادة الدراسية ونتانج التعلم والمحتويات الإرشادية					
Module Aims أهداف المادة الدراسية	 Descriptive Geometry provides training of the students' intellectual capability of space perception and spatial reasoning. Training the student's mind to visualize imaginary objects and represent them. The subject aims at developing the skills needed for documenting designs using drawings and for performing graphical analysis of two dimensional and three-dimensional problems. This course develops the ability of the students to understand geometric projection and learn the types of geometric projection. Students will learn how to use deferent drawing scales. The course develops the basic engineering drawing skills in one plane of the students and use drawing tools. 					
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	 Remember and understand the most ways to draw different shapes. Comparing the different methods of drawing. Describe different ways that are used for drawing the same object. Naming and describing the different scales. Carrying out the final 2d and 3d drawing of any project. The use of different architectural drawing tools. Benefit from the ways of drawing in engineering and architectural work after graduation. 					
Indicative Contents المحتويات الإرشادية	 Indicative content includes the following. Introducing the engineering drawing subject. How to draw different shapes. How to draw 3d models. How to draw projection. 					
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 practical sessions and homework.						

Student Workload (SWL)										
الحمل الدراسي للطالب محسوب لـ ١٥ أسبوعا										
Structured SW	L (h/sem)		٩٣	Str	ructured SWL (1	h/w)		4		
لطالب خلال الفصل	عمل الدراسي المنتظم ا	ال			الحمل الدراسي المنتظم للطالب أسبوعيا					
Unstructured S	WL (h/sem)		٥٧	Un	Unstructured SWL (h/w)					
لطالب خلال الفصل	لدراسي غير المنتظم ا	الحمل		عيا	لمنتظم للطالب أسبو	الحمل الدراسي غير اا		4.1		
Total SWL (h/s	sem)		١٥.							
لطالب خلال الفصل	الحمل الدراسي الكلي ا									
			Mod	ule I	Evaluation					
			سية	الدرا	تقييم المادة					
As Time/Number Weight (Marks) Week Due Relevant Learning Outcome							g			
	Quizzes	1			10% (10)	5				
Formative assessment	Projects / Lab. Class work	١٢			15% (10)	1,3,7,10,12, 14				
	Projects / Homework	17			15% (10)	2,4,6,9,11,13,15				
Summative assessment	Midterm Exam	2 hr			20% (20)	8				
	Final Exam	3 hr			40% (40)	16	All			
Total assessme	nt				100% (100 Marks)					
		Delive	ery Pl	an (V	Weekly Syllabu	s)				
			النظري	عي ا	المنهاج الاسبو					
Week	Material Covere	d								
Week 1	Monge's Orthog	raphic I	Projec	tion.						
WOOK 1	Defining points	for Mon	ige's o	desci	riptive geometry	y analysis				
Week 2	Defining lines for	or Mong	ge's de	escri	ptive geometry	analysis				
Week 3	Solve for various angles, Distance					ze and shape project	ions, True	;		
Week 4	Solve for various angles, Distance					ze and shape project	ions, True	;		

Midterm exam					
Auxiliary Views. Defining principal views relative to spatial analysis and expanding the principles of basic views to auxiliary view application					
Introduction and definition of engineering drawing for students, including the following:					
Learn about engineering tools and how to use them.					
* Types of pens used in drawing geometric shapes.					
* Billboard layout and addresses field numbers.					
* How to deal with the engineering board and the engineering board and how to install it on the board.					
Types of lines in engineering drawing: visible lines, hidden lines, center lines, dimension lines, cutting lines.					
Various engineering operations:					
* Introducing the drawing scale and its types: civil, mechanical, zoom-in and zoom-out scale.					
Teach students how to apply and draw the following engineering operations:					
* Drawing a straight line parallel to a known straight line from a point outside it.					
* Drawing a perpendicular bisector of a known straight line					
Draw tangents and learn about tangent points and how to locate them					
Various engineering operations					
* Draw a known arc so that it touches two known lines between which there are angles: right, acute and obtuse.					
* Finding the center of a known arc tangent to a known straight line and a known circle arc, inner circle arcs, and outer circle arcs.					
* Finding the center of a known arc that touches the arc of a known circle and passes through a point outside it.					
Draw the inverted shape					
Quiz					
Perpendicular projection theory of objects					
* Types of projection in drawing and its practical importance					
* Projections with vertical rays					
* Types of projections resulting from vertical projection and approved in the projection of various engineering objects					

	The front, vertical, right side and left side view					
	* How to arrange and draw the projections required for any object on the drawing board					
	Drawing three-dimensional figures					
Week 12	* Types of three-dimensional figures and their practical benefits					
	* Isometric					
W 1.12	Linking the given projections with the process of imagining and drawing the analogous body					
Week 13	Drawing axes of measurement and how to put dimensions on them					
	Drawing the deleted third position of the body					
Week 14	* How to deduce the omitted location from two known locations of the body					
	Draw the omitted location of objects with inclined surfaces					
	Geometric Sections					
	* Rules for cutting objects					
Week 15	* Marking the cut areas and leaving blanks and uncut parts					
	Abnormal areas during cutting that were not marked: the oblique and vertical supports and appendages in the body					
Week 16	Final Exam					

المنهاج الاسبوعي للمختبر							
Week	Material Covered						
week i	Using the engineering board and install the sheet on the board and use engineering drawings tools.						
Week 2	Drawing: visible lines, hidden lines, center lines, dimension lines, cutting	lines.					
Week 3	Drawing a straight line parallel to a known straight line from a point outs Drawing a perpendicular bisector of a known straight line	ide it.					
Week 4	Drawing tangents						
Week 5	Quiz						
Week 6	Section drawing						
Week 7	Arrange and draw the projections required for any object on the drawing b	ooard					
Week 8	Mid Term Exam						
Week 9	Drawing three-dimensional figures						
Week 10	Drawing axes of measurement and put dimensions on them						
Week II	Linking the given projections with the process of imagining and drawing the analogous body						
Week 12	Drawing the deleted third position of the body						
Week 13	Draw the omitted location of objects with inclined surfaces						
Week 14	Marking the cut areas and leaving blanks and uncut parts						
Week IS	Abnormal areas during cutting that were not marked: the oblique and vert supports and appendages in the body	ical					
Week 16	Final Exam						
Learning and Te	eaching Resources						
مادر التعلم والتدريس	مصم						
	Text	Availabl e in the Library?					
Required Texts	-	No					
Recommende d Texts	Engineering Drawing and Graphic Technology, By	No					

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

Module Information معلومات المادة الدراسية								
Module Title	Art & Aı	rchitecture		Module	Module Delivery			
Module Type	С				⊠ Theory			
Module	ARC 113						□ Lecture	
Code	ARC 113				□ Lab			
ECTS Credits	٤						☐ Tutorial	
SWL	١			-			□Practical	
(hr/sem)							⊠ Seminar	
Module Leve	İ	UGI	Semester	of Deliver	ry		1	
Administering Department	g	ARC	College	COE				
Module Leader	Khawola	faith mahmoud	e-mail Khawola.mahmoud@uomosul			ul.edu.iq		
Module Lead Title	er's Acad.	Assist. prof	Module Leader's Qua		uali	fication	Ph.D.	
Module Tutor	anwar me	eshal shareef	e-mail	anwar.m	anwar.meshal@uomosul.edu.iq			
Peer Reviewe	r Name		e-mail					
Scientific Con Approval Date			Version Number 1.0					
Relation with other Modules العلاقة مع المواد الدراسية الأخرى								
Prerequisite r	nodule	Architecture De	esign and G	raphic (1)		Semester		
Co-requisites module None Semester								
Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية								
Module Aims	Introduction to Art and Architecture: The aim of this module is to provide students with a broad understanding of the relationship between art and							

أهداف المادة الدراسية

- architecture, and the relations between architecture and other sciences, introducing key concepts and terminology in the field.
- Elements of Design: The aim of this module is to introduce students to the
 fundamental elements of design and how they apply it to both art and architecture.
 Students will develop an understanding of how these elements contribute to the
 aesthetics and functionality of architectural design.
- Principles of design: The aim of this module is to introduce students to the
 Principles of design and Identify and distinguish how the principles of design
 apply in architecture. Students will develop an understanding of how these
 Principles contribute to the aesthetics and functionality of architectural design.
- Drawing and Visualization: This module aims to develop students' drawing skills specifically for architectural representation. The goal is to enable students to effectively communicate their design ideas through drawings and visualizations.
- Space and Scale: This module aims to provide students with an understanding of space and scale in architectural design. Students will learn how to create a sense of space and manipulate the scale in their designs to achieve desired effects.
- Architectural composition, types of geometric forms' connections, articulation of forms and corners and their application in art and architecture
- Architectural trends and movements in art and architecture, (art nouveau, cubism).
- Historical Architectural Styles: This module aims to familiarize students with the
 major architectural styles throughout history, from ancient to contemporary,
 enabling them to recognize and analyze different architectural styles and their
 characteristics.
- Materials and Construction: The aim of this module is to introduce students to
 different construction materials and their applications in architecture. Students
 will gain knowledge about the properties and characteristics of materials,
 enabling them to make informed material choices in their designs.
- into how technology is shaping the future of architecture and Interior Design: This module aims to introduce students to the principles of interior design within architectural spaces. Students will learn how to create functional and aesthetically pleasing interiors, considering lighting, furniture, and material choices.
- Landscape Design and Site Planning: The aim of this module is to provide students with an understanding of landscape design principles and their role in architectural projects. Students will learn how to integrate buildings with the surrounding landscape to create harmonious and sustainable designs.
- Architectural Representation: This module aims to develop students' skills in architectural representation, including models, renderings, and digital visualization techniques. The goal is to equip students with effective communication tools to present their design ideas.

	Emerging Technologies and Future Trends: This module aims to explore the impact of emerging technologies on architecture and to discuss future trends in the field. Students will gain insights into challenges and opportunities it presents.						
	Introduction to Art and Architecture:						
	Understand the relationship between art and architecture.						
	Use key concepts and terminology related to art and architecture.						
	Historical Architectural Styles:						
	Differentiate between major architectural styles throughout history.						
	Analyze the characteristics and influences of various architectural styles.						
	Elements of Design:						
	Apply design principles to create aesthetically pleasing and functional architectural designs.						
	Drawing and Visualization:						
	Communicate design ideas effectively through drawings and visualizations.						
Module Learning	Space and Scale:						
Outcomes	• Manipulate spatial qualities and scale in architectural design.						
	Materials and Construction:						
مخرجات التعلم للمادة	Evaluate construction materials used in architecture.						
الدراسية	Make informed material choices for architectural applications.						
	Sustainable Design and Green Architecture:						
	Incorporate sustainable design principles and practices in architectural design.						
	Apply environmentally friendly materials and energy-efficient strategies.						
	Interior Design:						
	Apply principles of interior design within architectural spaces.						
	Landscape Design and Site Planning:						
	Integrate buildings with the surrounding environment through landscape design.						
	Architectural Representation:						
	Present architectural designs effectively using appropriate representation methods.						
	Emerging Technologies and Future Trends:						

 Understand the impact of emerging technologies on architecture. Evaluate and discuss future trends in architecture. 								
the relationship between art and architecture, major historical architectural styles, elements of design in architecture, drawing and visualization skills, space and scale in architectural design, materials and construction, urban design and planning, sustainable design and green architecture, architectural history, building structures, interior design principles, landscape design and site planning, architectural representation techniques, and emerging technologies and future trends in architecture. These condensed indicative contents provide an overview of the essential topics and concepts that will be covered in the curriculum on art and architecture								
		Learn	ing and	Teaching	g Strategies	1		
			م والتعليم	يجيات التعل	استرات			
		S	tudent V	Vorkload	(SWL)			
		أسبوعا	سوب لـ ٥١	لطالب محس	عمل الدراسي ا	الـ		
Structured S	WL (h/sem)		33		Structured	SWL (h/w)	2	
الب خلال الفصل	الحمل الدراسي المنتظم للطالب خلال الفصل				لالب أسبوعيا	2		
Unstructured	SWL (h/sem)		٦٧ [Unstructured SWL (h/w)		4. 7	
الب خلال الفصل	اسي غير المنتظم للط	الحمل الدر			الحمل الدراسي غير المنتظم للطالب أسبوعيا			
Total SWL (I	n/sem) مل الدراسي الكلي للط	الحه						
			Modu	le Evalua	tion			
			راسية	م المادة الد	تقيي			
As		Time/Nu	ımber	ber Weight Week (Marks) Due Relevant Learning		Relevant Learning Outcom	e	
	Quizzes	2		10% (10)	4, 13	LO #3, 4, 5, and 6		
Formative assessment	Assignments	4		10% (10)	4, 13	LO #3, 4, 5, and 6		
	Projects / Lab.	1		10% (10)				
	Exam			10%(10	0)			
Summative assessment	Midterm Exam	1 hr		10% (10)	8	1,2,3,4,6,14		

	Final Exam	3 hr	50% (50)	16	All					
Total asses	sment		100% (100 Marks)							
Delivery Plan (Weekly Syllabus)										
		النظري	هاج الاسبوعي	المنه						
Week	Week Material Covered									
Week 1	 Introduction to Art and Architecture Overview of the course and its objectives Understanding the basic principles of art and architecture Exploring the relationship between art and architecture Exploring the relationship between architecture and other sciences 									
Week 2	 Elements of Design Introduction to the elements of design (line, shape, form, color, texture, etc.) Understanding how these elements apply to both art and architecture. Examples of how artists and architects utilize these elements in their work. 									
Week 3	 Principles of design Introduction to the Principles of design (identical, similarity, contrast, Gradation, dominance, Balance, unity, etc.). Understanding how these Principles apply to architecture. Identify and distinguish how the principles of design apply in architecture 									
Week 4	 Drawing Fundamentals for Architects Importance of drawing skills in architecture Basic drawing techniques and exercises for architectural representation Introduction to architectural drafting tools and conventions 									
Week 5	• Exploring t	the concepts of space and S space and S	pace and sca	ale in art	and architecture					

	Examining how artists play with scale in their works
	Architectural composition
Week 6	• types of geometric forms' connections
	articulation of forms and corners and their application in art and architecture
Week 7	 Architectural trends and movements in art and architecture, (art nouveau, cubism).
Week 8	Mid Term Exam
	Color Theory and Application
	Basics of color theory and its significance in art and architecture
Week 9	Exploring color palettes and their emotional impact on architectural spaces
	• Case studies of buildings that effectively use color in their design.
	Architectural Styles: From Classical to Contemporary
	Introduction to various architectural styles throughout history
Week 10	Overview of classical architecture (Greek and Roman)
	Exploration of modern and contemporary architectural styles
	Introduction to Interior Design
Wash 11	• Exploring the principles of interior design in architectural spaces
Week 11	Understanding the role of lighting, furniture, and materials in interior design
	Case studies of well-designed interiors
	Landscape Design and Site Planning
We-1- 12	Introduction to landscape design principles
Week 12	Understanding the relationship between buildings and their surroundings
	Case studies of landscape architecture projects
	Architectural Representation: Models and Visualization
	Introduction to architectural models and their role in design
Week 13	• Exploring different visualization techniques (renderings, digital modeling, etc.)
	Understanding the importance of effective communication in architectural representation
Week 14	Sustainable Design and Green Architecture

	Introduction to sustainable design practices in architecture								
	• Exploring environmentally friendly materials and energy-efficient strategies								
	Case studies of green buildings and their sustainable features								
	Future Trends in Architecture								
	Exploring emerging technologies and their impact on architecture								
Week 15	Trends in sustainable design, smart cities, and adaptive reuse	Trends in sustainable design, smart cities, and adaptive reuse							
	Discussion on the future challenges and opportunities in the field of an								
Week 16	Final Exam								
Learning a	nd Teaching Resources								
علم والتدريس	مصادر الت								
	Text	Available in the Library?							
Architecture, Form, Space and Order / Francis Ching/1996 The Art of Color and Design / Maitland Graves/1951 Launching Imagination / Mary Stewart/2006 ۱۹۸۵/۱۹۸۱ مباديء في الفن والعمارة /شيرين احسان شيرزاد/١٩٨٥									
Recommer	 "A Global History of Architecture" by Francis D. K. Ching, Mark M. Jarzombek, and Vikramaditya Prakash "The Story of Art" by E.H. Gombrich "Architecture: Form, Space, and Order" by Francis D. K. Ching "Architecture: A World History" by Daniel Borden, Jerzy Elzanowski, and Joni Taylor The Metropolitan Museum of Art's website (www.metmuseum.org) for online exhibits and resources on art and architectural history. (www.getty.edu/education) for educational resources on art and architecture. The National Gallery of Art's website (www.nga.gov) for virtual tours and educational materials on art history. Architectural Review (www.architectural-review.com) Architectural Digest (www.architecturaldigest.com) Journal of Architectural Education (www.tandfonline.com/toc/uarc20/current) 	No							
Wbsites	The Artstor Digital Library (<u>www.artstor.org</u>) for high-quality images of artworks, architectural drawing								

- s, and historical photographs.
- Google Arts & Culture (artsandculture.google.com) for virtual tours, high-resolution images, and educational resources on art and architecture.
- Coursera (<u>www.coursera.org</u>) and edX (<u>www.edx.org</u>) offer online courses on art history, architectural design, and related topics.
- The Architectural Association School of Architecture (www.aaschool.ac.uk) offers online courses and lectures on architecture and design.

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

Module Information										
معلومات المادة الدراسية										
Module Title	Arabic Language				Modu	ule l	Delivery			
Module Type	Е									□ Theory
Module Code	ARC 11	4				- ⊠ Lecture				■ Lecture
ECTS Credits	۲					□ Lab			□ Lab	
						☐ Tutor				☐ Tutorial
SWL (hr/sem)	٥,									□Practical
										⊠ Seminar
Module Level			UGI	Semester	r of	Deliv	ery]	
Administering D	Departmer	nt	ARC	College		COE				
Module Leader	Nedhal Al Iariary			e-mail						
Module Leader'	s Acad. T	itle	Assist. Lecturer	Module	Lea	ader's Qualification MSc.				
Module Tutor				e-mail	<u> </u>	anwar.	mes	shal@uor	nosı	ıl.edu.iq
Peer Reviewer N	Name			e-mail						
Scientific Committee Approval Date				Version Number			1.0)		
Relation with of	her Modu	ıles								
واد الدراسية الأخرى	ملاقة مع المو	الع								
Prerequisite mod	dule				Se	emeste	r			
Co-requisites module None				Se	Semester					
Module Aims, Learning Outcomes and Indicative Contents										
المحتويات الإرشادية	ائج التعلم وا	ىية ونت	أهداف المادة الدراس							
Module Aims أهداف المادة الدراسية	. This course aims to define students of the importance of Arabic in the university study by discussing several vocabularies and concepts used in university teaching					sity teaching				
القراسية	s phase to raise awareness of the importance of using the 'within the bachelor correct language rules in writing reports and lectures.									

	ب بأهمية اللغة	تعريف الطلاب					
	ب بأهمية اللغة						
	مدخل عام نظرى استرجاعي لتقسيمات اللغة العربية						
		-	- '				
Module	مدخل عام نظري استرجاعي لتقسيمات اللغة العربية التعريف بمكونات الجملة وتقسيم الكلام						
Learning	وحديم سرح اللغة		,				
Outcomes			فى اللغة العربية	نه اع الحماء	ع ض ا		
	-	_	في اللغة العربية و				
			<u> </u>		البدء بمعمار النحو الـ		
مخرجات التعلم للمادة الدراسية	_				البدء بمعمار النحو ال		
<u> </u>	_			•	بعدر بعدر. تطلاق غلى الحديث عن الشكل والمض	<u> </u>	
	•		•		تطلاق على الحديث عن الشكل والمض تطلاق غلى الحديث عن الشكل والمض		
	_	سية الشعر وعرض اسة الشعر وعرض	_	سون احت	تعرق حی اعدیت حل اعدل والمد	-	
		سه الشعر وعر <u>ط</u> اسة الشعر وعرض	-				
Indicative	ن بعض اليات	سه استعر و حرب	مدحن سرر				
Indicative Contents							
Contents							
المحتويات							
الإرشادية							
Learning and Tea	aching Strateg	gies					
تيجيات التعلم والتعليم	استرا						
Student Workloa	d (SWL)						
1. 1	*** **						
حسوب له ۱۰ أسبوعا	لدراسي للطالب م	الحمل ال					
Structured SWL	(h/sem)		Ct 1 CV	7T (1-1-)			
this to be to be a		33	Structured SWL (h/w)			2	
ر المنتظم للطالب خلال الفصل الفصل	الحمل الدراسي		م للطالب أسبوعيا	اسي المنتظ	الحمل الدر		
العصن							
Unstructured SW	L (h/sem)		Unstructured	SWI (b/s	v)		
. ht-tt tent ti	Latte to t	7.7	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا			4.7	
ي غير المنتظم للطالب خلال الفصل	الحمل الدر اسم						
<i>5</i> —, <i>5</i> 2—							
Total SWL (h/ser	m)						
المال خلال	الحمل الدراس	٥.					
الحمل الدراسي الكلي للطالب خلال الفصل الدراسي الكلي الطالب خلال الفصل							
	Module Evaluation						
تقييم المادة الدراسية							
تعييم المادة الدراسية							
			Weight				
As		Time/Numbe	r (Marks)	Week Due	Relevant Learning Outcom	e	
U2							

	Quizzes	2	10% (10)	4, 13	LO #3, 4, 5, and 6
Formative assessment	Assignments	4	10% (10)	4, 13	LO #3, 4, 5, and 6
	Projects / Lab.				
	Exam				
Summative	Midterm Exam	1 hr	10% (10)	8	1,2,3,4,6,14
assessment	Final Exam	3 hr	70% (70)	16	All
Total assessm		100% (100 Marks)			

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

Week	Material Covered
Week 1	التعريف بالمصطلحات الأدبية كالإيقاع والعروض ووحدة البيت الشعري ووحدة القصيدة العربية ونظامها العمودي.
Week 2	التعريف بالمصطلحات الأدبية كالإيقاع والعروض ووحدة البيت الشعري ووحدة القصيدة العربية ونظامها العمودي
Week 3	نماذج أدبية
Week 4	نماذج أدبية
Week 5	تجاوز نظام الشعر العمودي الى الشعر الحر وعرض فكرة التحول وربطها مع نظام البناء القديم والحديث من خلال مصطلحي الكلاسيكي والحداثوي
Week 6	تجاوز نظام الشعر العمودي الى الشعر الحر وعرض فكرة التحول وربطها مع نظام البناء القديم والحديث من خلال مصطلحي الكلاسيكي والحداثوي
Week 7	سيمياء العنوان وعده مدخلا مهما في نقد التصاميم المعمارية
Week 8	Mid Term Exam
Week 9	عرض التكرار بوصفه آلية من آليات بناء النص الأدبي
Week 10	عرض التكرار بوصفه آلية من آليات بناء النص الأدبي
Week 11	التمييز بين مصطلحي التكرار والتوازي وبيان دور التوازي في بناء النص
Week 12	التمييز بين مصطلحي التكرار والتوازي وبيان دور التوازي في بناء النص
Week 13	السخرية والتهكم مفهومان أدبيان وكيف يدخلان في الفن المعماري نقدا وتلقيا

Week 14	السخرية والتهكم مفهومان أدبيان وكيف يدخلان في الفن المعماري نقدا وتلقيا						
Week 15	مفهوم المتلقي من نظرية الاستقبال لياكومبسن						
Week 16	Fina	al Exam					
		Learning and Teaching Resou	nrces				
	مصادر التعلم والتدريس						
		Text	Available in the Library?				
Required Texts							
Recommended							
Texts							
Websites							

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

Module Information							
معلومات المادة الدراسية							
Module Title	Mathe	Mathematics (1)			lule Deli	ivery	
Module Type	В			⊠ T	⊠ Theory		
Module Code	ARC 1	15			☐ Lecture		
ECTS Credits	4.0				□ Lab		
				⊠T	☐ Tutorial		
SWL (hr/sem)	100			□ P:	ractical		
					eminar		
Module Level		UGI	Semester	of Del	livery	1	
Administering Department		ARC	RC College		COE		
Module Leader	Tuqa Waleed Ahmed e-mail		e-mail	new.ı	new.matrix242@uomosul.edu.iq		
Module Leader's Title	Acad.	Lecturer	Module Leader's Qualification		's	M.SC	2.
Module Tutor	Mohan Jawahe	mmed Al	e-mail	moha	mohammed.aljawahery@uomosul.edu.iq		
Peer Reviewer Na	ime		e-mail				
Scientific Commi Approval Date	ttee		Version Number	1.0			
Relation with other	er Modul	les					
لمواد الدراسية الأخرى	علاقة مع اا	lt.					
Prerequisite modu	ıle	None			Semes	ter	
Co-requisites mod	lule None				Semester		
Module Aims, Learning Outcomes and Indicative Contents							
أهداف المادة الدراسية ونتانج التعلم والمحتويات الإرشادية							
Module Aims أهداف المادة الدراسية	 Provide the fundamental concepts for elementary mathematics. Use mathematical functions like trigonometric functions and application of derivatives to solve some Engineering problems. 						

At the end of this course, students will have gained knowledge of the Basic 2D Curves drawing using shifting properties. Module Understanding the concepts of limits and continuity. Learning Outcomes Being able to apply the differentiation to solve Engineering problems. Learning how to use the power, product, quotient and chain rule to differentiate algebraic trigonometric functions. مخرجات التعلم للمادة الدراسية Recognizing different types of matrices and their properties. Applying matrix operations to solve system of linear equations. Indicative content includes the following. Prerequisites for calculus, coordinates, and graphs in the plane. Slope and Equations for lines, functions, and their graphs. Shifts, circles, and parabolas. A review of trigonometric functions. [15 hrs] Limits and continuity, introduction to limit, the sandwich theorem and $\underline{\sin \theta}$, limits involving infinity, continuous functions. [15 hrs] Indicative Contents Derivatives, slopes, tangent lines, and derivatives. Differentiations rules, derivatives of trigonometric functions. The chain rule, implicit differentiation, المحتويات الإرشادية and fractional powers. [15 hrs] Applications of derivatives, related rates of change. maxima, minima, curve sketching with y' and y''. graphing rational functions, asymptotes, optimization. Types of Matrices, operations sum, multiplication by scalar, multiplication between two matrices, Determinants, The adjoin of Matrix, inverse of Matrix, Solving systems of linear equation using Matrices. [15 hrs] Learning and Teaching Strategies استراتيجيات التعلم والتعليم 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 Strategies expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students. Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا Structured SWL (h/sem) Structured SWL (h/w) 78 5 الحمل الدراسي المنتظم للطالب خلال الفصل الحمل الدراسي المنتظم للطالب أسبوعيا Unstructured SWL (h/sem) Unstructured SWL (h/w) 22 1.46 الحمل الدراسي غير المنتظم للطالب خلال الفصل الحمل الدراسي غير المنتظم للطالب أسبوعيا

Total SWL (h/sen	1)		100					
الب خلال الفصل	لي للطا	لحمل الدراسي الكا	1)						
Module Eval	luatio	n							
المادة الدراسية	تقييم								
As Time/N			Time/N	umber	Weight (Marks)	Week Due	Relevant Learning Outcome		
	Qui	zzes	4		30% (30)	4,7,10and15	LO #1, 2,3 and 4		
Formative assessment	Ass	ignments	5		10% (10)	3,9,11,13, and14	LO # 1-6		
assessment	Proj	jects / Lab.							
	Rep	ort							
Summative	Mid	Iterm Exam	1 hr		10% (10)	9	LO # 1-4		
assessment	Fina	al Exam	3 hr		50% (50)	16	All		
Total assessi	Total assessment 100% (100 Marks)								
			Deliver	y Plan (Weekly Syllabu	s)			
			ي	عي النظر	المنهاج الاسبو				
Week		Material Co	vered						
Week 1		Types of ma	_		, sum, multiplica	ation by scalar a	nd multiplication		
Week 2		Determinant	s, the adjo	oint and	the inverse of n	natrix.			
Week 3		Solving syst	ems of lin	ear equ	ations using mat	trices.			
Week 4		Prerequisites	s for calcu	ılus, coo	ordinates, and G	raphs in the plan	e,		
Week 5		Slope and ed	quations fo	or lines,	functions, and t	heir graphs.			
Week 6	Week 6 Shifts, circles, parabolas, and a review of trigonometric functions.						ons.		
Week 7	Week 7 Introduction to limits.								
Week 8		The sandwic	theoren	n and <u>sir</u>					
Week 9		Limits involving infinity and continuous functions.							
Week 10		Derivatives,	slopes, ar	nd tange	ent lines.				
Week 11		Differentiation rules and derivatives of trigonometric functions.							

Week 12	The chain rule, implicit differentiation, and fractional powers.
Week 13	Applications of derivatives and related rates of change.
Week 14	Maxima, minima, and curve sketching with y' and y'' .
Week 15	Graphing rational functions, asymptotes, and optimization.
Week 16	Preparatory week before the final exam.

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	ThomasCalculus_11th_Edition by Thomas.	No
Recommended Texts	Calculus and Analytic Geometry 1 by Purcell,1972.	No
Websites		

Grading Scheme

مخطط الدرجات

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

Module Information											
معلومات المادة الدراسية											
Module Title	Demo	ocrac	cy and Human	Rights	Module Delivery						
Module Type	Е									X	Theory
Module	ADC				-					I	☐ Lecture
Code	ARC	110									□ Lab
ECTS Credits	۲									[☐ Tutorial
SWL											Practical
(hr/sem)	٥.										☐ Seminar
Module Lev	el		UGI	Semester of	of De	live	ery	1			
Administerin Department	ng		ARC	College	College CO		ÞΕ				
Module Leader	Shatha jajan		e-mail	e-mail							
Module Lead Acad. Title	der's		Assistant lecturer	Module Lo Qualificati		I MSc					
Module Tutor				e-mail							
Peer Review	er Nan	ne		e-mail							
Scientific Co Approval Da		ee		Version Number	·	1.	0				
Relation with	h other	Mod	lules								
دراسية الأخرى	المواد ال	زقة مع	العلا								
Prerequisite module		None					Semester		None		
Co-requisite module	s	None			Semester None						
Module Aims, Learning Outcomes and Indicative Contents											
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية											
Module Ain			• The aim of	f studying the	e dem	1001	racy and	hun	nan rights t	opics i	s to:
أهداف المادة الدراسية											

Understand the concept of human rights and explore their sources, including international, regional, national, and religious sources. Define administrative corruption, explore its types, and understand its detrimental effects on society. Study methods to combat administrative corruption and promote transparency, accountability, and good governance. Trace the historical development and evolution of human rights, examining key milestones and movements that have shaped the modern understanding of human rights. Differentiate between different categories of human rights, including civil and political rights, economic and social rights, and environmental, cultural, and developmental rights. Explore legal, institutional, and societal guarantees to prevent human rights violations, including guarantees of human rights in Islam, national-level protections, and international safeguards. Comprehend the concept of democracy, including its principles, values, and various forms of democratic governance such as direct, semi-direct, indirect, and digital democracy. Overall, studying these topics aims to develop a comprehensive understanding of human rights, democracy, and combating corruption, empowering individuals to actively promote and protect human rights and democratic values in society. After these module aims, students should be able to: Demonstrate a comprehensive understanding of the concept of human rights and their sources, including international, regional, national, and religious sources. Identify and explain the fundamental characteristics of human rights, such as universality, indivisibility, interdependence, and inalienability. Module Learning Analyze the historical emergence and evolution of human rights, Outcomes including key milestones and movements that have shaped their development. مخرجات التعلم للمادة Differentiate between different categories of human rights, including الدراسية civil and political rights, economic and social rights, and environmental, cultural, and developmental rights. Evaluate and apply legal, institutional, and societal guarantees to prevent human rights violations, considering guarantees in Islam, at the national level, and within the international framework. Understand and discuss the concept of democracy, including its principles, values, and different forms of democratic governance.

	• Evolvoto the Islamia stance and demonstrate the first transfer of					
	Evaluate the Islamic stance on democracy and engage in critical analysis of the strengths and weaknesses of the democratic system.					
	 Recognize and assess the impact of administrative corruption on society and propose methods to combat and prevent corruption in administrative systems. 					
	Demonstrate critical thinking skills by analyzing and evaluating different perspectives on human rights, democracy, and corruption.					
	 Apply acquired knowledge and skills to promote and protect human rights, democracy, and good governance in personal, professional, and civic contexts. 					
	 Overall, students should have a solid understanding of democracy and human rights, democracy, and corruption issues, and be able to apply this knowledge to contribute to the advancement of human rights and democratic values in society. 					
	The indicative content includes:					
	1. Definition and sources of democracy and human rights (international, regional, national, religious). [3h]					
	2. Characteristics of democracy and human rights: universality, indivisibility, interdependence, inalienability. [3h]					
	3. Emergence and evolution of human rights: historical development, key milestones, influential movements. [3h]					
Indicative Contents	4. Types of human rights: civil and political, economic and social, environmental, cultural, and developmental. [3h]					
المحتويات الإرشادية	5. Guarantees to prevent human rights violations: legal, institutional, societal safeguards, Islamic guarantees, national and international levels. [3h]					
	6. Concept of democracy: principles, values, forms of governance (direct, semi-direct, indirect). [3h]					
	7. Islamic stance on democracy: compatibility, strengths, weaknesses. [3h]					
	8. Critique of the democratic system: analysis of strengths and weaknesses. [3h]					
	9. Administrative corruption: definition, types, societal impact. [3h]					
	10. Methods to combat administrative corruption. [3h]					
Learning and Teach	Learning and Teaching Strategies					
تراتيجيات التعلم والتعليم	اسد					
Strategies	When it comes to learning and teaching strategies for a human rights module, there are several approaches can be taken to enhance understanding and engagement. Here are some effective strategies:					

- Interactive Discussions: Encourage students to actively participate in discussions, debates, and group activities. This promotes critical thinking, allows for different perspectives to be shared, and fosters a deeper understanding of human rights issues.
- Case Studies: Present real-life case studies that highlight human rights violations or achievements. Analyzing these cases helps students apply theoretical concepts to practical situations and develops their problemsolving skills.
- Research Projects: Assign research projects on specific human rights topics or issues. This encourages independent learning, critical analysis, and the development of research skills.
- Collaborative Learning: Foster collaboration among students through group projects or assignments. This encourages teamwork, peer learning, and the exchange of diverse perspectives.
- Assessment Variety: Use a variety of assessment methods, including essays, presentations, debates, and quizzes, to assess students' understanding of human rights concepts and their ability to apply them to real-world situations.

Student Workload (SWL)

الحمل الدراسي للطالب

Structured SWL (h/sem)		Structured SWL (h/w)	
الحمل الدراسي المنتظم للطالب خلال	٣٢	الحمل الدراسي المنتظم للطالب	2.3
الفصل		أسبوعيا	
Harten de la CWII (h./)		Harden of an I CWII (1-/)	
Unstructured SWL (h/sem)		Unstructured SWL (h/w)	
الحمل الدراسي غير المنتظم للطالب	١٨	الحمل الدراسي غير المنتظم للطالب	1.2
خلال الفصل		أسبوعيا	
Total SWL (h/sem)			

الحمل الدراسي الكلي للطالب خلال الفصل الفصل

odule Evaluation

تقييم المادة الدراسية

As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative	Quizzes	2	10% (10)	5, 10	LO #2, 4, 6 and 8
assessment	Assignments	2	10% (10)	3, 5, 8, 11, 13	LO # 1, 3, 7, 6, 9 and 10

		1	1	Г	T	
	Projects / Lab.	1	10% (10)	Continuous		
	Report	1	10% (10)	13	LO # 2,4,5,7,9and 10	
Summative	Midterm Exam	2 hr	10% (10)	7	LO # 1-7	
assessment	Final Exam	3 hr	50% (50)	16	All	
Total assess	sment		100% (100 Marks)			
Delivery Pl	an (Weekly Syllal	ous)	1	•	l	
مبوعي النظري	المنهاج الاس					
Week	Material Covered	1				
Week 1	Definition of human rights and sources of rights (international sources / regional sources / national sources / religious sources).					
Week 2	Characteristics of human rights.					
Week 3	The emergence and evolution of human rights.					
	Types of human rights / civil and political rights.					
Week 4	Economic and so	ocial rights.				
	Environmental, o	cultural, and devel	lopmental ri	ghts.		
Week 5	Guarantees to pr	event human righ	ts violations	s / guarantees o	of human rights in Islam.	
Week 6	Guarantees for the	ne protection of hu	uman rights	at the national	level.	
Week 7	Guarantees of human rights at the international level.					
Week 8	The concept of democracy.					
Week 9	Characteristics of a democratic system.					
Week 10	Forms of democratic governance (direct democracy / semi-direct democracy / indirect democracy).					
Week 11	Digital democracy / definition and advantages and disadvantages of digital democracy / manifestations of digital democracy.					
Week 12	The Islamic stance on democracy.					
Week 13	Critique of the de	emocratic system.				
Week 14	Administrative corruption / definition and types.					

Week 15	Methods to combat administrative corruption.
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	ضمانات حقوق الانسان وحمايتها وفقا للقانون الدولي والتشريع الوطني / نبيل عبد الرحمن ناصر الدين	No
Recommended Texts	الديمقر اطية وحقوق الانسان / د. امير عبد العزيز	No
Websites		

Grading Scheme

مخطط الدرجات

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

Module Inform	Module Information							
مات المادة الدراسية	معلوه							
Module Title	Architectural Design& Graphic (2)			Module Delivery				
Module Type	Core			×	⊠ Theory			
Module Code	ARC	121		×	Lecture			
ECTS Credits	12				l Lab			
				×	Tutorial			
SWL (hr/sem)	۳.,				Practical			
] Seminar			
		Ahmed Al- Fakhry	e-mail				ned.alfakhry@uomosu u.iq_	
		Assist. Prof	Module Leader's Qualification	I M Sc				
Module Tutor			e-mail					
Peer Reviewer Name		Reem Al- Othman	e-mail	Reemalothman@uomosu 1.edu.iq				
Scientific Committee Approval Date			Version Number	1.	.0			
Prerequisite module		Architectural d	esign (3)	ı	Semester			
Co-requisites module		None	one			Semester		
Module Aims, Learning Outcomes and Indicative Contents								
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية								
• This course aims to teach students the basic princ architectural design and presentation through intr student to methods of graphic representation esse professionals in the built environment. Design representation through introduced in the student to methods of graphic representation essentially and the student to methods of graphic representation essentially and the students of the students of the students the basic prince architectural design and presentation through introduced in the students of the students the basic prince architectural design and presentation through introduced in the students of the stude					h introduces the essential to design gn representation is			
	aught both as a craft and as a moniod of difficing.							

	 Types of representation include freehand drawing (drawing from observation and from the imagination); analytic diagramming (the two-dimensional representation of an idea or process); illustration graphics (symbolic representation), and technical drafting (conventions of plan, section, elevation and axonometric). Students will be exposed to analog (pencil-and-paper) and digital tools. The method of instruction will emphasize application of representation skills in response to project assignments. 					
Module Learning Outcomes	 The purpose of this course also is to provide students with the necessary scientific and logical justification for the studied architectural as well as the exercises on which they depend. General skills and other skills related to portability (Personal employment and development). 					
مخرجات التعلم للمادة الدراسية	 Teamwork within the group. Personal development through ethical values in dealing with, and respect for the other opinion. Personal development through building the general and professional cultural background of the profession. Interaction with teaching staff as a guide educational and administrative educational process. 					
Indicative Contents المحتويات الإرشادية	 Determine Creative thinking to apply design principles of composition and to deal with the level of mass and architectural space. Introduce opinions and deduce the nature of the application of design principles and the use of design elements in the studied architectural practice that achieve a collective agreement. Self-learning skill through self-reliance in the conclusion of solutions to design problems and knowledge. Based on the students' criticism and follow-up by the teaching staff to ensure that the talents and abilities of the students are exploited and utilized to achieve the objectives of the educational program. 					
Learning and Teaching Strategies استراتیجیات التعلم والتعلیم						
Strategies	The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students.					
Student Workload (SWI للطالب محسوب لـ ١٥ اسبوعا						

Structured SWL (h/sem)		Structured SWL (h/w)					
الحمل الدراسي المنتظم للطالب خلال الفصل	123	الحمل الدراسي المنتظم للطالب أسبوعيا	8				
Unstructured SWL (h/sem)		Unstructured SWL (h/w)					
` ,	177	` '					
الحمل الدراسي غير المنتظم للطالب خلال الفصل		الحمل الدراسي غير المنتظم للطالب أسبوعيا					
Total SWL (h/sem)							
		٣٠٠					
الحمل الدراسي الكلي للطالب خلال القصل							
M	odule l	Evaluation					
تقييم المادة الدراسية							
		Rele	vant				

As		Time/Num ber	Weight (Marks)	Week Due	Relevant Learning Outcome
As	Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome	As
Form ative	Report	2	5%	22,26	Formative assessment
assess	(Day Sketch	1	10% (10)	9	6,8,9,10,11,1 2,13,14
Sum mativ	Final Presentation	10	50%	4,8,10,14,16,24,26, 28,29,31	
e assess	Discussions&Analysis teams work	2	5%(10)	22,26	5,7,8,9,10,11, 12,13,,14
ment	Midterm Exam(Day Sketch 1)	2 hr	20% (20)	31	Summative assessment
Sum mativ	Final Exam (Day Sketch2)	4	10% (10)	32	1,2,3,4,6,14
e assess ment Total assess ment	100% (100 Marks)				Total assessment
As		Time/Numb er	Weight (Marks)	Week Due	

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

Week Material Covered

Week 1	Human Scale: Standardization and study of the reality of the activities position, a study of the chosen space and its standard dimensions. It represents the joint between the abstract state and other values in architecture. Understand the concept and its applications and distinguish between the scale in the residential building and public building.
Week 2	Submission
Week 3	Study the space or place to perform the effectiveness according to the human scale, recognition of standard dimensions Standard for the space of activities and furniture required for each of the basic human activities of sleep, food, living and kitchen, the use of expressive expressions of that furniture and the absorption of their sizes in relation to the human.
Week 4	Homework
Week 5	Application through a realistic study of interior space, design development with a focus on studying space, functional and expressive requirements of it, the introduction of color and texture, a study of furniture and others.
Week 6	Homework
Week 7	Definition of the style of presentation facades and sections and show the architectural project integrated based on the elements and principles of design at the level of the configurations of three dimensions, and the volume and mass configuration of the basic human functions and studio apartment for one person.
Week 8	Priemer Submission
Week 9	The specific project of housing unit (studio) for one person and with multi-function.
Week 10	Discussion
Week 11	Discussion
Week 12	Discution , Pre-final submission
Week 13	Final submission
Week 14	Recognition of the method of abstraction, integration, and overlay in the design of the stable volumetric formations through a short project depends on one of the light buildings with a visual character, for example, designs for external elements such as fountains, monuments, bus stations, stalls etc.
Week 15	Submission
Week 16	Human Scale: Standardization and study of the reality of the activities position, a study of the chosen space and its standard dimensions. It represents the joint between the abstract state and other values in architecture. Understand the concept and its applications and distinguish between the scale in the residential building and public building.
Learning and	d Teaching Resources
التعلم والتدريس	<u>ה</u>

	Text	Available in the Library?
Required Texts	Form, Space, Francis Ching, 1. Introduction to Architecture Design, 2. Francis ching Pattern Language. 3.	No
Recommended Texts		No
Websites		

Grading Scheme

خطط الدرجات

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

Module Information								
مادة الدراسية	علومات ال	.						
Module Title	Free Hand Drawing (1)			Mod	dule Delive	ry		
Module Type	Ģ							□Theory
Module	ARC	122						□ Lecture
Code								□ Lab
ECTS Credits	٥							□Tutorial
SWL	170							⊠Practical
(hr/sem)								☐ Seminar
Module Le		UGI	Semester	of De	livery	2		
Administer Departmen	t	ARC	College	COI	COE			
Module Leader		ed Yaroub em Tohala	e-mail	ahma	adtohala@u	omo	sul.edu.iq	
Module Le Acad. Title		Lecturer	Module I Qualifica		l P		D.	
Module Tutor			e-mail					
Peer Revie Name	wer	Name	e-mail	E-mail				
Scientific Committee Approval I	Version				1.0			
Relation w	ith othe	r Modules						
العلاقة مع المواد الدراسية الأخرى								
Prerequisite module	e N	Ione	е			ter		
Co-requisit module	- I None				Semester			
Module Aims, Learning Outcomes and Indicative Contents								

ج التعلم والمحتويات الإرشادية	أهداف المادة الدراسية ونتائ
Module Aims أهداف المادة الدراسية	The free hand drawing curriculum for the architecture student aims at several important goals for the formation of the architect during his academic years, which go beyond learning the means and techniques of free hand drawing to develop visual perception and a mature architectural engineering vision of the world, which is very important for the architect, including The balance of vision and the development of artistic taste for objects • and formations Exercising the sense of sight on the vision and linking it to previous • information about the theory of perspective to form thought, perception and visualization of that form Exercising the hand on expression by creating a harmonious • relationship between the vision, the brain and the hand to express the visual perception of the world Learn the method of measurement of proportions and proportions using • hand, pen and sight Recognize the differences between the values of light, shade and • shadows in the theory of perspective and learn to express them Learn the methods and techniques of drawing with different materials • such as pencils and colors Developing the ability to see the elements of artistic formation, such as • Jines, shapes, sizes, textures and directions, and analyze them in the model Developing self-reliance in the process of vision and expression through • a series of drawing exercises that range in difficulty from simple shapes to .more complex ones Obtaining a musical visual vision that will be important and useful for • future architecture students
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	 Aesthetic artistic taste through a musical vision of different shapes and configurations. Learn the theory of perspective, which is the basis for visual perception of the world. Create a harmonious relationship between vision, brain and hand for expression and the ability to express architectural ideas through free hand drawing. Using the measurement method for proportions and proportions by hand, pen, and sight Realizing the differences in light values in the theory of perspective and being able to express them. Acquire the skills of using different drawing methods and techniques. The artistic vision of the elements of the artistic composition, such as lines, shapes, sizes, textures, directions, and their analysis in the model.
Indicative Contents المحتويات الإرشادية	 Visual perception of different shapes from the perspective of the concept of perspective and its concepts. Proportions in dimensions and shapes and measuring them by hand, pen, and vision. Estimating light values, colors, tones, and the differences between them Derivations of various shapes from the basic cube shape.

- The relationship between vision, hand, visual perception, acquisition of vision skill and the ability to express.
- Gaining the musical vision of an architecture student through practice and bringing concepts into practice.

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies

- 1 . Giving the student the basic concepts and previous information about the reality that he draws through a model, and then criticizing the drawing so that the student acquires the skill of correct vision and the ability to express.
- 2 . Diversifying the shapes and configurations of the model and the gradation in the degree of complexity from simple to complex

Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	٦٣	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	4.2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	7.4	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	٤,١٣
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	170		

Module Evaluation

تقييم المادة الدراسية

As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
	Quizzes	2	10% (10)	4, 13	LO #1, 2, and 3
Formative assessment	Assignments 1		30% 30)	6	LO #3
	Projects / Lab.	4 hr	30%(30)	12	LO #3 and 4
	Report				
Summative assessment	Midterm Exam	4 hr	15% (15)	15	LO #1-4
	Final Exam	3 hr	15%(15)	16	All

Total assessr	nent		100% (100 Marks)					
Delivery Plan (Weekly Syllabus)								
اسبوعي النظري	المنهاج الا							
Week	Material	l Covered						
Week 1	Introduc	ctory test for know the student	aptitude					
Week 2	Training	g for draw lines in different di	rections					
Week 3	Simple	model consist of cubes – stage	: 1					
Week 4	Advance	e model consist of cubes – sta	ge 1					
Week 5	General	discussion with the student at	out the dra	wing and	paint			
Week 6	Simple	model consist of circle shapes	& cylinders	s – Stage	1			
Week 7	Simple	model consist of circle shapes	& cylinders	s – Stage	2			
Week 8	Simple	model consist of circle shapes	& cylinders	s – Stage	3			
Week 9	Simple model consist of oblique cubes – stage 1							
Week 10	Simple model consist of oblique cubes – stage 2							
Week 11	Simple models consist of potteries							
Week 12	simple models consist of irregular forms1							
Week 13	Advance model consist of irregular forms2							
Week 14	General	discussion with the student at	out the dra	wing and	paint			
Week 15	Final su	bmission						
Week 16	Final Ex	kam						
Learning and	l 1 Teaching	g Resources						
التعلم والتدريس	مصادر							
	Text Availa in the Librar							
Required Te	xts	Drawing – a creative process & sons, inc., 1990 Drawing Guptill publications, 1965, Bodo w. Jax Heimer, Tham Watercolor technique, rex E publishing corporation, 196	outdoor, how York I es and Huds Brandt, sixtl	nenry c. p How to passon, 1962	its , Watson- aint and draw , 2 , London	No		

Recommende	ed Texts			No
Websites				
		Gra	nding Schen	ne
		ت	مخطط الدرجان	
Group	Grade	التقدير	Marks (%)	Definition
	A - Excellent	امتياز	90 – 100	Outstanding Performance
Success	B - Very Good	جيد جدا	80 – 89	Above average with some errors
Group (50 - 100)	C – Good	ختد	70 – 79	Sound work with notable errors
(50 100)	D - Satisfactory	متوسط	60 – 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 – 59	Work meets minimum criteria
Fail Group	FX – Fail	راسب (قيد المعالجة)	(45- 49)	More work required but credit awarded
(0 – 49)	F – Fail	راسب	(0-44)	Considerable amount of work required

	Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية								
N راسية	at understanding building materials, properties, and interior finishing materials, preparation of gs, details. Identify the components of buildings elear structure, construction, and material.								
Module Learnin	g Outcomes	On successful completion of this course students will be able to: 1. Utilize basic principles of Building Construction. 2. Compose reports of the building's materials and elements. Module Denvery							
نتعلم للمادة الدراسية	مذرجات ال	5. Understanding of elements.	3. To Learn properties of the building's materials. 4. To Learn properties of the building's elements. 5. Understanding of process construction through materials and elements.						
Indicative (ت الإرشادية		Construction and Building Materials is a scientific course with theoretical, concerned with providing and analyzing information specialized in the field of Building Gonstruction. The semester establishes for fundamental base for the building processes and provides the ability to use different techniques and tools for this purpose.							
				□ Se	eminar				
Module Level		UGV	Semester of Delivery		10				
Administering I	Department	Architectural Engineering	College	Colleg	ge of Engineeri	ng			
Module Leader	Adil Khalil Ç	Q asim	e-mail	adil.kh	alil@uomosul	.edu.iq			
Module Leader'	s Acad. Title	Assistant teacher	Module L	eader's	Qualification	MSc.			
Module Tutor	Module Tutor		e-mail						
Peer Reviewer N	Name		e-mail						
Scientific Commi Approval Date	ittee	01/06/2023	Version Number		:	1.0			

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

	Learning and Teaching Strategies							
استراتيجيات التعلم والتعليم								
Strategies	Instructional strategies are hands-on learning, direct instruction, and document-based questions. Introduction to the principles of Building construction. Examples of							
Strategies	building implementations.							

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	3.2				
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	52	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	3.46				
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				
	Quizzes	2	15% (10)	4,13	LO #1,2, and 3				
Formative	Assignments	1	15% (10)	6	LO #3				
assessment	Projects / Lab.								
	Report	1	10% (10)	5 and 15					
Summative assessment	Midterm Exam	2 hr	20% (20)	15	LO # 1-4				
assessment	Final Exam	3 hr	40% (40)	16	All				
Total assessment			100% (100 Marks)						

	Delivery Plan (Weekly Syllabus)						
المنهاج الاسبوعي النظري							
Week	Material Covered						
Week 1		duction about building materials The Stages of the construous omponents of the building (foundations- Walls- roofs- flo					
Week 2	Construc	tion materials (Brick), building by Brick, constructional S	ymbols, (Homework)				
Week 3	Stone, Ty	pes of stones, building by stone, Gypsum. (H.W.)					
Week 4		cement and Its properties. Concrete, Types of Concrete as Components. (Quiz1)	nd Its Properties,				
Week 5	A visit to	laboratories and sites under construction, (Report)					
Week 6	Light and (H.W.)	I hollow Concrete and Thurstone, industry, components, p	properties, uses.				
Week 7	Steel, Alı	uminum, Plastic materials					
Week 8	Term Exa	am 1st					
Week 9	Foundati	ons, and walls (H.W.)					
Week 10	Roofs and Floors (H.W.)						
Week 11	Vertical circulation elements (Stairs, Ramps, Escalators, Lifts) (H.W.)						
Week 12	Vertical circulation elements (Stairs, Ramps, Escalators, Lifts) (H.W.)						
Week 13	Openings	s (Doors and windows) (Quiz 2)					
Week 14	Finishing	and Insulation Materials					
Week 15	A visit to	sites under construction, (Report)					
Week 16	Term Ex	am 2 nd					
	-	Learning and Teaching Resources					
		مصادر التعلم والتدريس					
		Text	Available in the Library?				
		Building Constructions- By Zuhair M. Saco					
Required T	Cexts	• Building Constructions, Walls and It's Details – By Anees Juaad	Yes				
	Civil Engineering for Architects (Poland)						
Recommer	nded						
Texts							
Websites	ebsites						

	Grading Scheme مخطط الدرجات									
Group	Grade	Marks		Definition						
	A - Excellent	امتياز	90 - 100	Outstanding Performance						
Success	B - Very Good		80 - 89	Above average with some errors						
Group	C – Good	ختر	70 - 79	Sound work with notable errors						
(50 - 100)	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings						
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria						
Fail Group	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded						
(0-49)	F – Fail	راسب 1		Considerable amount of work required						

Module Information								
معلومات المادة الدراسية								
Module Title	computer literacy			Module Delivery				
Module Type	Suppor	t		X	The	ory		
Module Code	ARC 1	24			Lect	ure		
ECTS Credits	٣				Lab			
				\boxtimes	Tuto	orial		
SWL (hr/sem)	٧٥				Prac	tical		
					Sem	inar		
Module Level		UGI	Semester o	f De	elivei	ry	2	
Administering Departmen	nt	ARC	College		CO	E		
Module Leader	Ebtisan Sawaf	n Al	e-mail		ebtisamalsawaf@uomosul.edu.iq			
Module Leader's Acad. T	itle	Lecturer	Module Le	ader	r's Q	ualification	PhD	
Module Tutor			e-mail					
Peer Reviewer Name			e-mail					
Scientific Committee App Date	proval		Version Number 1.0			1.0		
Relation with other Modu	ıles							
للقة مع المواد الدراسية الأخرى	الع							
Prerequisite module	Mather	natics (1).			S	Semester		1
Co-requisites module	None			Semester				
Module Aims, Learning (Outcome	s and Indica	ative Conten	ts				
انج التعلم والمحتويات الإرشادية	راسية ونت	هداف المادة الد	s Í					
Module Aims								
أهداف المادة الدراسية		The course aims to make students owing basic skills in IT (Word, Excel, Internet), Photoshop, AutoCAD						
Module Learning Outcomes	drawing drafting	gs, 3D mod g, and prese	eling, render entation softv	ing, vare	and tool	ng and Design v Image processing s will be used for the information. I	ng. Major CAlor the producti	D on,

			. 1							
جات التعلم للمادة	H	utilization of modeling and simulation software tools in Architectura Engineering.								
الدراسية	. •									
Indicative Co	ontents									
تويات الإرشادية	المد									
Learning and	l Teaching Stra	itegies								
ت التعلم والتعليم	استراتيجياه									
Strategies										
Student Wor	kload (SWL)									
ب له ۱۰ أسبوعا	سي للطالب محسود	الحمل الدرا								
Structured S'	WL (h/sem)		**	Struct	tured SWL	(h/w)		۲,۲		
الب خلال الفصل	دراسي المنتظم للط	الحمل الد		سبوعيا	نتظم للطالب أه	لدراسي الم	الحمل			
Unstructured	SWL (h/sem)		٤٢		Unstructured SWL (h/w)					
الب خلال الفصل	ي غير المنتظم للط	الحمل الدراس						۲,۸		
Total SWL (h/sem)		٧٥							
الب خلال الفصل	الدراسي الكلي للط	الحمل								
Module Eval	uation									
المادة الدراسية	تقييم									
		Time/I	Numbe	r	Weight	Week	Relevant Learning			
As					(Marks)	Due	Outcome			
	Quizzes	3			30% (30)	5, 10	LO #1, 2 and 3			
Formative assessment	Assignments	nts 5			10% (10)	2, 12	LO # 1-6			
	Projects / La	b.								
	Report									
Summative	Midterm Exam	1 hr			10% (10)	8	LO # 1-3			
assessment	Final Exam	3hr			50% (50)	16	All			

Total assessment		100% (100 Marks)					
Delivery Plan (W							
Week	Material	Covered					
Week 1	Introduct	ion					
Week 2	Introduct	ion to Word					
Week 3	Font, par	agraph					
Week 4	Word, Fo	nt , paragraph					
Week 5	Insert tab	le					
Week 6	Insert pic	ture					
Week 7	Examinat	ion					
Week 8	Introduct	ion to Excel					
Week 9	Math &	rig functions					
Week 10	Excel Ma	th & trig function	ns				
Week 11	Logical f	unctions					
Week 12	Logical f	unctions					
Week 13	Introduct	ion to internet					
Week 14	Internet,	searching process					
Week 15	Downloa	ding & uploading	5				
Week 16	Final Exa	m					
Learning and Tea	ching Resources						
سادر التعلم والتدريس							
	Text			Availab	le in the Library?		
Required Texts	Thomas' Calculus			NO			
Recommended Texts	Calculus and Ana Purcell,1972.	lytic Geometry 1	by	NO			
Websites	Websites						
Grading Scheme							

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

Module Information									
معلومات المادة الدراسية									
Module Title	Mathematics (2)				Module Delivery				
Module Type	Basic	Basic				⊠ Theory			
Module Code	ARC	125					☐ Lecture ☐ Lab		
ECTS Credits	4.0						☑ Tutorial		
SWL (hr/sem)	100						☐ Practica		
Module Lev	el		UGI	Semester	of Deli	very		2	
Administerin Department	Administering Department ARC			College	COE				
Module Leader	1			e-mail	new.matrix242@uomosul.edu.iq				
Module Lea Acad. Title	Module Leader's Acad. Title Lecturer		Lecturer	Module Leader's Qualification			M.Sc.		
Module Tutor	Moha Jawal		ed Al	e-mail	moha	mmed.aljawahe	ry@uomosu	l.edu.iq	
Peer Review	er Nan	ne		e-mail					
Scientific Co Approval Da		ee		Version Number		1.0			
Relation wit									
Prerequisite module	I Mainemancs (1)				Semester 1		1		
Co-requisites None None				Semester					
Module Aims, Learning Outcomes and Indicative Contents									
أهداف المادة الدراسية ونتانج التعلم والمحتويات الإرشادية									
Module Ain	ıs								
• Provide the fundamental concepts of elementary mathematics for integration.									

	Use the mathematical of the curve	integra	ation to find the areas, volumes and the le	ength			
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	 At the end of this course, students will have: Understanding and applying the fundamental concepts of integration. Finding the indefinite integral of a function using substitution techniques. Being able to solve problems involving applications of integration, such as area between curves, volume of revolutions and length of curves. Understanding the concept of inverse functions and how they relate to the original functions. Recognizing the relationship between inverse trigonometric functions and their application in solving problems. Applying the techniques of integration to solve integral problems. 						
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. Integrating and finding the area with respect to x and y axes, definite integrals and indefinite integrals [10 hrs.]. Applications of definite integrals, areas between curves, volumes of solids of revolution, disks and washers, cylindrical shells, length of curves in the plane and areas of surfaces of revolution. [20 hrs.] The calculus of transcendental functions, inverse functions, $\ln x$, e^x and logarithmic differentiation, general exponential and logarithmic function and the inverse of trigonometric functions. [20 hrs.] Techniques of integration, basic integration formulas, integration by parts, trigonometric integrals, trigonometric substitution, rational functions and partial fractions. [25 hrs.]						
Learning and Teac							
Strategies	Type something like: The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students.						
Student Workload	(SWL)						
محسوب له ۱۰ أسبوعا	لحمل الدراسي للطالب						
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل			Structured SWL (h/w)	5.2			
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل			Unstructured SWL (h/w)	1,£7			
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل							
Module Evaluation تقييم المادة الدراسية	1						

As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	3	30% (30)	5, 10	LO #1, 2 and 3
	Assignments	5	10% (10)	2, 12	LO # 1-6
	Projects / Lab.				
	Report				
Summative	Midterm Exam	1 hr	10% (10)	8	LO # 1-3
assessment	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

Week	Material Covered
Week 1	Definite integrals and indefinite integrals.
Week 2	Integrating and finding the area with respect to x and y axes.
Week 3	Application of definite integrals and areas between curves.
Week 4	Volumes of solids of revolution: discs and washers' methods.
Week 5	Cylindrical shells method.
Week 6	Length of curves in the plane.
Week 7	Areas of surfaces of Revolution.
Week 8	The calculus of transcendental functions and inverse functions.
Week 9	and logarithmic differentiation. $\ln x$, e^x
Week 10	General exponential and logarithmic functions.
Week 11	The inverse trigonometric functions.
Week 12	Techniques of integration and basic integration formulas.
Week 13	Integration by parts.

Week 14	Trigonometric integrals and trigonometric substitution.
Week 15	Rational functions and partial fractions.
Week 16	Preparatory week before the final exam.

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Thomas' Calculus by Finney and Thomas.	NO
Recommended Texts	Calculus and Analytic Geometry 1 by Purcell,1972.	NO
Websites		

Grading Scheme

مخطط الدرجات

Group	Grade	التقدير	Marks (%)	Definition
	A – Excellent	امتياز	90 - 100	Outstanding Performance
Success	B - Very Good	جيد جدا	80 – 89	Above average with some errors
(50 -	C – Good	خت	70 – 79	Sound work with notable errors
100)	D – Satisfactory	متوسط	60 – 69	Fair but with major shortcomings
	E – Sufficient	مقبول	50 – 59	Work meets minimum criteria
Fail Group	FX – Fail	راسب (قيد المعالجة)	(45- 49)	More work required but credit awarded
(0-49)	F – Fail	راسپ	(0-44)	Considerable amount of work required
	D : 11			

Module Information							
معلومات المادة الدراسية							
Module Title	English	language – Begin	ner	Module D	Module Delivery		
Module Type				Theory	√		
Module Code	ARC 120	5		Lecture	✓		
ECTS Credits	2			Lab			
				Tutorial			
SWL (hr/sem)	50			Practical	l		
				Seminar			
Module Level		UGI	Semester of	of Delivery		1	
Administering Departm	nent	Architectural Engineering	College	College of Engineering			
Module Leader	Rawya d	abdob	e-mail				
Module Leader's Acad	. Title	Assistant lecture	Module L	eader's Qual	ification	MSc.	
Module Tutor			e-mail				
Peer Reviewer Name			e-mail				
Scientific Committee A Date		Version N	umber	1.0			
Relation with other Mo	dules						
لة مع المواد الدراسية الأخرى	العلاق						
Prerequisite module	;			Semester			
Co-requisites module	None	;			Semester		

Module Aims, Learning Outcomes and Indicative Contents							
أهداف المادة الدراسية ونتانج التعلم والمحتويات الإرشادية							
Module Aims	The main Learning Outcomes of English language Beginner module for						
the first stage is:							

	1. Developing student's skills in English language includes the four skills:
	- Listening objectives: Understand the main points of clear speech.
	- Reading Objectives: Understand basic language to read any topic on architecture.
	- Writing Objectives: write simply about familiar and architectural topics.
	- Speaking Objectives: extended communication skills in education contexts. Reflection on own learning and development and ability to work with and relate to others.
	2. upgrading the quality of architectural educational aiming to obtain academic accreditation.
	The Module Learning Outcomes that serve the aim include:
	learning English language may allow students to communicate easily with fellow global students and other counterparts.
	2. learning English language may ease the access to different architectural information and resources in English.
	3. learning English language may improve and widen employment opportunities and make them more confident.
	Those outcomes can be fulfilled through cognition domain from Blooms Taxonomy as following:
Module Learning	1. Remembering Vocabulary.
Outcomes مخرجات التعلم للمادة	Recognizing words and their meanings
معرجات التعلم للمادة	Describing things or situation
	2. Understanding 'Everyday English'
	Interpreting sentences
	Explaining a word's meaning.
	3. Applying 'Spoken grammar'
	Comparing tools grammar
	Applying tools and words meanings in forming sentences.
	Carry out tools and grammars in writing.
Indicative Contents	During the course, students will be able to speak interaction and production objectives, deal with most situations with basic English language. This
المحتويات الإرشادية	course adopts Headway Student's Book, hence, is a communicative English language course designed by Oxford University. The course has been supplemented by a variety of communicative and business-related projects

to ensure the outcomes of the program. The course aims to further develop students' language skills and strategies in reading, writing, listening, and speaking to a level where they can apply their language skills to longer, more complex material and tasks that help build confidence and prepare students to proceed to intermediate level. The course has seven units where each is carefully designed to develop students' four main skills. The course also pays good attention to grammar, vocabulary, and pronunciation.

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies

Learning and teaching strategies refer to instructors' methods and approaches to facilitate student learning and achievement of module learning outcomes. These strategies aim to engage students, promote understanding, and enhance their knowledge and skills in advanced English course. Here are the adopted learning and teaching strategies:

- 1. Lectures and presentations: the notes and the instructors are delivered through presentations introducing fundamental knowledge of English grammar and skills.
- 2. Interactive discussions: promotes active learning and thinking by engaging students in discussions. Instructors can facilitate class discussions on specific topics, encouraging students to share their insights, ask questions, and explore different perspectives.
- 3. Formative Assessments and Feedback: Regular formative assessments, such as quizzes and homework that help instructors gauge students' understanding and progress. Providing timely feedback allows students to identify areas for improvement and reinforces their learning.

Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem)		Structured SWL (h/w)	
الحمل الدراسي المنتظم للطالب خلال الفصل	77	الحمل الدراسي المنتظم للطالب أسبوعيا	۲,۱۳
Unstructured SWL (h/sem)		Unstructured SWL (h/w)	
الحمل الدراسي غير المنتظم للطالب خلال الفصل	١٨	الحمل الدراسي غير المنتظم للطالب أسبوعيا	١,٢
Total SWL (h/sem)			
الحمل الدراسي الكلي للطالب خلال الفصل	· .		

Module Evaluation

تقييم المادة الدراسية

					D.1
As		Time/Nu mber	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	3,8	1,2
	Homework assignments	9	27% (27)	2,3,4,5,6,7,8,9, 11,12,13	1,2
	Discussions& Attendance	1	3% (3)	1,2,3,4,5,6,7,8, 9,11,12,13,14, 15	1,2
Summative assessment	Midterm Exam	1 hr	10% (10)	10	
	Final Exam	3 hr	50% (50)		
Total assessment			100% (100 Marks)		
Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري Week Material Covered					
Week 1	Part of speech: Noun, pronoun, adjective, adverb				
Week 2	Part of speech: verb tenses				
Week 3	Unit 1: Hello, Am/is. My/your, this is. How are you?				
Week 4	Unite 2: your world. He/she, His/her, Questions				
Week 5	Unit 3: All about you Negatives-he/she is not. Questions and short answers, Negatives- I am/ they/ we are not				
Week 6	Unit 4: Family and friends! Possessive adjectives, Possessive s, Common verbs,				
Week 7	Unit 5: Things I like! Present simple positive, Present simple negative, Questions				
Week 8	Reading and listening				
Week 9	Reading and listening				
Week 10	Midterm Exam				
Week 11	Unit 6: Every day Present simple, Adverbs of frequency, Sometimes/never, Questions and negatives				
Week 12	Unit 7: Favorite things Questions words, Pronouns, Possessive, This and that				
Week 13	Writing report				
Week 14	Writing report				

Week 15	Writi	Writing report							
Week 16	Preparatory week before the final Exam								
	Learning and Teaching Resources مصادر التعلم والتدريس								
		Text	Available in the Library?						
Required Texts		Liz & John Soars and Jo McCaul (2019) Headway- Beginner Student's Book Fifth Edition. OXFORD University Press. ISBN: 978-0-19-476966-2	No						
Recommended Texts			No						
Websites									

Grading Scheme

مخطط الدرجات

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

Module Information									
معلومات المادة الدراسية									
Module Title	Architecture design 1				Мо	Module Delivery			
Module Type	С					☐ Theory			
Module Code	ARC	211					uic		
ECTS Credits	١٢						orial		
SWL (hr/sem)	٣.,						tical inar		
Module Lev	el		UGII	Semester	of De	live	ery	3	
Administerin Department	ng		ARC	College	COI	COE			
Module Leader	mozahim Mohammed Mustafa			e-mail	Moz	Mozahim.hadidi@uomosul.edu.iq			
Module Lead Acad. Title	der's		LECTURER		edule Leader's Ph.D.			D.	
Module Tutor	Name	e (if a	available)	e-mail	E-mail				
Peer Review	er Nam	ie	Name	e-mail	E-mail				
Scientific Co Approval Da		ee		Version Number		1.0			
Relation with									
دراسية الأخرى	المواد ا	فِهُ مَعِ	العلا				T		
Prerequisite module		No	ne				Semes	ter	
Co-requisite module	None None				Semester				
		ج التع	Outcomes and In المادة الدراسية ونتائب	أهداف					
Module Ain المادة الدراسية		info reso wit	ormation, analysi	is, synthesis l functions ext using ar	s), ena and to	blir ma	ng them nipulate	to sta	lesign process (collecting rt a design project, to itectural form and space and respecting local

Module Learnin Outcomes خرجات التعلم للمادة الدراسية	 know The stand proje The 	knowledge to design buildings with limited spaces (Villa). • The student can make reports related to the analysis of similar examples, standards, and site analysis, in addition to other information about the project.							
Indicative Contents محتویات الإرشادیة	Platonic s forms, Fo with hori Openings Circulation	Introduction, Primary Elements, Visual proportion of form, Primary shapes, Platonic solid, Regular and irregular forms, Transformation of form, Additive forms, Formal collisions of geometry, Articulation of form, Defining space with horizontal & vertical elements, Closure, Qualities of Architectural Space, Openings in space / Lighting, Spatial Relationships, Spatial Organizations, Circulation, Proportion and Scale, Practice/ Preliminary Presentation Ordering Principles, Practice/ Development.							
Learning and T	-	gies							
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								
Student Worklo	oad (SWL)								
سوب له ۱۰ اسبوعا	دراسي للطالب محا	الحمل ال							
Structured SWI المنتظم للطالب خلال القصل		153	Structured SWL (h/w) 153 الحمل الدراسي المنتظم للطالب أسبوعيا						
Unstructured SV غير المنتظم للطالب خلال الفصل		147	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا				9.8		
Total SWL (h/s رائكلي للطالب خلال الفصل			300						
		N		e Evaluation تقييم المادة الد	n				
As		Time/Nun	nber	Weight (Marks)	Week Due	Rele	evant Learning Outcome		
Formative	Report	3		10% (10)	2,3,4	1,2,3	3,4,5,AND6		
	Weekly assessment	13		10% (10)	1,13				

	Concept supmission	1	5%(5)	5	6,8,9,10,11,12,13,14
	Midterm supmission	1	10%(10)	7	
	Pre. Final Presentation	1	15% (15)	12	
	Final Presentation	1	20% (20)	16	
Summative	Midterm Exam(Day Sketch 1)	3 hr	5% \((15)	6,10	1,7
assessment	Final Exam (Day Sketch2)	4	15% (15)	16	
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

Week	Material Covered
Week 1	General Introduction
Week 2	Definition and characteristics of the design process
Week 3	The design problematic and how to define it using architectural graphics and drawings
Week 4	Analysis as an interpreting tool clarifying the problem in relation to the composition
Week 5	Analysis using matrices
Week 6	architectural spaces adjacency criteria
Week 7	Day sketch
Week 8	Synthesis – representing matrices using geometrical shapes (the bubble diagram)
Week 9	Synthesis – representing matrices using geometrical shapes (the bubble diagram)
Week 10	Synthesis – Zoning
Week 11	Architectural form and its types
Week 12	Interlocking architectural forms
Week 13	Treatment of architectural form
Week 14	Solid and void

Week 15	Horiz	Horizontal elements defining space								
Week 16	Verti	Vertical elements defining spaces								
Learning ar	Learning and Teaching Resources									
تعلم والتدريس	صادر الذ	4								
Text Available in the Library?										
Required T	exts	D. K. O	ecture, form space Ching ds of systematic secture, By D. Mol	analysis o	f design in	Yes				
Recommen Texts	ded					No				
Websites										
	Gradii	ng Scher	me							
خطط الدرجات	A									
Group	Grad	e	التقدير	Marks (%)	Definition					
	A – Exce	llent	امتياز	90 - 100	Outstanding	g Performance				
Success	B - V	•	جيد جدا	80 – 89	Above average with some errors					
Group (50 - 100)	C – C	Good	جيد	70 – 79	Sound worl	k with notable errors				
(30 100)	D – Satis	factory	متوسط	60 – 69	Fair but wit	th major shortcomings				
	E – Suffi	cient	مقبول	50 – 59	Work meet	s minimum criteria				
Fail Group	FX –	- Fail	راسب (قيد المعالجة)	(45- 49)	More work	ore work required but credit awarded				
(0-49)	F-F	ail	راسپ	(0-44)	Considerab	le amount of work required				

Module Information									
معلومات المادة الدراسية									
Module Title		History o	of Ancient Arch	itecture	Mo	odule Deli	very	,	
Module Type		С			\boxtimes	Theory			
Module Code		ARC 212				Lecture			
ECTS Credits		4				Lab			
						Γutorial			
SWL (hr/sem)		100				Practical			
						Seminar			
Module Level			UGII	Semester	of D	elivery	3		
Administering	Dep	partment	ARC	College	CC	ÞΕ			
Module Leade	r	Ashraf Ib Mahmood		e-mail	E- A	E- Ashraf.ibrahim@uomosul.edu.iq mail			
Module Leade Title	r's A	Acad.	Lecture	Module I Qualifica			M.	Sc.	
Module Tutor		Ashraf Ib Mahmood		e-mail E- A		E- Ashraf.ibrahim@uomosul.edu.iq mail			
Peer Reviewer	· Naı	me	Anfal Hamodat	e-mail	Anfal.azzam@uomosul.edu.iq			mosul.edu.iq	
Scientific Com Approval Date		tee		Version Number		1.0			
Relation with	othe	r Modules							
د الدراسية الأخرى	المواد	العلاقة مع							
Prerequisite module		story of Eu amic Archi	ropean Architec tecture	ture, Histor	ry of	Semest	er	2 nd sem 2 nd stage , 1 st sem 3 rd stage	
Co- requisites module	None					Semest	er		
Module Aims,	Lea	rning Outc	comes and Indica	ative Conte	nts				
حتويات الإرشادية	أهداف المادة الدراسية ونتانج التعلم والمحتويات الإرشادية								
Module Aims	1. bui		ents' ability to deemploy them in	_			lesig	n characteristics of old	

أهداف المادة	2. Increasing the visual knowledge store about the history of architecture, its						
الدراسية	stages of development, its characteristics and advantages						
	3. Preparing architectural graduates according to scientific rules that enable them to practice the profession of architecture in architectural and urban design, in city planning, internal and external spaces, and preservation of heritage and antiquities according to scientific rules and methods						
	1. Gain knowledge about architectural history, including different styles and characteristics of buildings throughout history, through lectures, reading materials, and visual aids such as pictures and videos.						
Module	2. Understand and appreciate the importance of architectural style and its impact on society.						
Learning Outcomes	3. Apply knowledge and skills to real-world situations and problems in the fields of architecture, town planning, urban planning, interior and exterior spaces, and the preservation of cultural heritage and antiquities.						
مخرجات التعلم للمادة الدراسية	4. Practice the profession of architects according to scientific rules and methods.						
	5. Draw inspiration from design features of older buildings for future designs.						
	6. Use knowledge, skills, and creativity to develop new ideas, products or solutions by incorporating design features from old buildings into future designs.						
	Introduction of ancient Iraqi architecture 2hours, 1 week.						
	• Sumerian architecture (introduction, temples and palaces architecture) 4hours, 2 weeks.						
	Babylonian Old Architecture (introduction, temples and palaces architecture) 2 hours, 1 week.						
Indicative Contents	• Assyrian architecture (introduction, the Assyrian capitals, the gates of cities, temples, and palaces). 6 hours, 3 weeks.						
المحتويات الإرشادية	Babylonian modern architecture (planning the city of Babylon, the gates of the city, a street procession, temples and palaces Architecture) 2hours, 1 week.						
	• Ancient Egyptian architecture - the general characteristics, the funereal Architecture, (pyramids, tombs carved in the mountains and temples). 6 hours, 3 weeks.						
	• Greek Architecture – The general characteristics- orders- temples .6 hours, 3 weeks.						
	Students Reports Discussion. 2hours, 1 week.						
Learning and	Teaching Strategies						
يات التعلم والتعليم	استراتيجا						
Strategies	The course includes lecture discussions and teaching and learning strategies for students to learn about ancient architecture. The course begins with an						

introduction to ancient Iraqi architecture followed by a detailed survey of Sumerian Babylonian Assyrian ancient Egyptian and Greek architecture. Topics are discussed weekly, and lessons are 2-6 hours per week. This lecture provides general characteristics of each architectural style and specific details of temple palace gates and other structures. In addition to lectures students are required to participate in discussions on topics covered in class. These discussions give students an opportunity to ask questions and share insights about the architecture being studied. Finally, students are expected to write a report on a specific topic related to ancient architecture. These reports allow students to delve deeper into specific aspects of a topic and demonstrate their understanding of the topic. In general, the teaching and learning strategies of this course are designed to provide students with a comprehensive understanding of ancient architecture through lectures. Discussion and independent study.

Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ أسبوعا

Structured SWL (h/sem)		Structured SWL (h/w)	
الحمل الدراسي المنتظم للطالب خلال	33	الحمل الدراسي المنتظم للطالب	2
الفصل		أسبوعيا	
Unstructured SWL (h/sem)		Unstructured SWL (h/w)	
Offstructured SWL (II/selli)		Olistructured SWL (II/W)	
الحمل الدراسي غير المنتظم للطالب	67	الحمل الدراسي غير المنتظم للطالب	4.4
خلال الفصل		أسبوعيا	
Total SWL (h/sem)			
	١		
الحمل الدراسي الكلي للطالب خلال			
الفصل			

Module Evaluation

تقييم المادة الدراسية

As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
	Quizzes	2	% Y •(20)	4, 13	1,2,3,4,5,6
Formative	Assignments	3	10% (10)	4, 13	1,2,3,4,5,6
assessment	Projects / Lab.				
	Report	1	10% (10)	١٤	All

Summative	Midterm Exam	2 hr	10% (10)	7	1,2,3,4,5,6					
assessment	Final Exam	3 hr	50% (50)	16	All					
Total assess	Total assessment 100% (100 Marks)									
Delivery Pla	an (Weekly Syllal	ous)								
سبوعي النظري	المنهاج الاس									
Week	Material Covered									
Week 1	Introduction of a	ncient Iraqi archit	ecture							
Week 2	Sumerian archite	cture								
Week 3	Sumerian archite	cture								
Week 4	Babylonian Old A	Architecture								
Week 5	Assyrian architec	ture								
Week 6	Assyrian architec	ture								
Week 7	Assyrian architec	ture								
Week 8	Babylonian mode	ern architecture								
Week 9	Ancient Egyptiar	architecture								
Week 10	Ancient Egyptiar	architecture								
Week 11	Ancient Egyptiar	architecture								
Week 12	Greek Architectu	re								
Week 13	Greek Architectu	re								
Week 14	Greek Architectu	re								
Week 15	Students Reports	Discussion								
Week 16	Final Exam									
Learning an	d Teaching Resor	irces								
لتعلم والتدريس	مصادر ا									
	Text Available in the Library?									
Required Te	exts Living in a	ncient Mesopotar	nia, Bancro	ft-Hunt, l	Norman 2009	No				

	The art And Architecture of Ancient Egypt . Smith, William	
	Stevenson, 1981	
	Mesopotamia Ancient art and Architecture. Zainab Bahrani, 2017	
Recommended		No
Texts		140
Websites		
Grad	ing Scheme	

Grading Scheme

مخطط الدرجات

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

Module Information										
المادة الدراسية	معلومات									
Module Title	Build	ing	Construction2		Mo	Module Delivery				
Module Type	С					□ Theory □ Lecture				
Module Code	ARC213					□ Lab				
ECTS Credits	٥					Tutorial				
SWL (hr/sem)	140					Practical Seminar				
Module Lev	el		UGII	Semester	of De	livery	3			
Administering Department			ARC	College	COI	COE				
Module Leader	Raed salim ahmed			e-mail	Raee	Raeedalnumman@uomosul.edu.iq				
Module Lea Acad. Title	der's		Assistant Professor	Module Leader's Qualification M.Sc.			Sc.			
Module Tutor	Dr. si	nan	taleea	e-mail	Sina	Sinan@uomosul.edu.iq				
Peer Reviewer Name		Mohammed mahfood Adil khaleel	e-mail			ed@uomosul.edu.iq omosul.edu.iq				
			Version Number		1.0					
Relation wit	h other	Mo	dules							
دراسية الأخرى		نة مع	العلاف							
Prerequisite module	Building Construction1				Semes	ter				
Co-requisite module	es	No	ne			Semes	ter			

Module Aims, Lea	urning Outcomes and Indicative Contents						
م والمحتويات الإرشادية	أهداف المادة الدراسية ونتائج التعلم						
Module Aims أهداف المادة الدراسية	 Identify the relationship between the construction and architectural form. identify the buildings that will be formatted by construction. Developing the structural sense of students, in addition, to novating their ability to use different construction methods to create the built environment and different architectural shapes. Educating construction techniques, traditional (bearing wall), and modern (skeleton system) methods of construction. Educate other related construction systems through theoretical and practical studying (lectures, exercises, and field visits), So, students should be able to draw and read the working drawings. And its architectural details. 						
Module Learning Outcomes	On successful completion of this course students will be able to: The students will be able to understand initially the basic principles of construction elements constituting architectural spaces and other associate systems common to construction. i,						
مخرجات التعلم للمادة الدراسية	 The student should be able to apply, analyze and read the working and architectural drawings. ii, iv The students will be able to create the technical details of their design. iii. 						
	1. Bearing Walls:						
	a. Definition: Bearing walls are structural walls that support the weight of the building above them and transfer it to the foundation.						
	b. Types: Load-bearing walls directly carry the building's load, while non-load-bearing walls are primarily used for dividing spaces.						
	c. Materials: Common materials for bearing walls include concrete, brick, and stone.						
Indicative Contents	d. Construction: Bearing walls are typically constructed using masonry techniques or reinforced concrete.						
المحتويات الإرشادية	2. Skeleton Systems:						
	a. Definition: Skeleton systems, also known as frame structures, use a framework of beams, columns, and other structural elements to support the building.						
	b. Types: Steel frame, reinforced concrete frame, and frame is popular types of skeleton systems.						
	c. Materials: Skeleton systems use materials such as steel, concrete for their structural components.						

- d. Construction: Skeleton systems involve the assembly of structural elements, such as steel beams or reinforced concrete columns, to create the building's framework.
- 3. Advantages:
- a. Bearing Walls: Provide excellent load-bearing capacity and structural stability. They are cost-effective and offer design flexibility for small to medium-sized buildings.
- b. Skeleton Systems: Allow for greater architectural freedom, open floor plans, and larger spans. They are suitable for high-rise buildings and structures with complex designs.
- 4. Considerations:
- a. Bearing Walls: Placement and spacing of bearing walls should be carefully considered to ensure structural integrity and proper load distribution.
- b. Skeleton Systems: Structural stability and load distribution are crucial factors in the design and construction of skeleton systems. Integration with other building components should also be taken into account.

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Present case studies of real buildings that utilize bearing wall and skeleton systems, discussing their design considerations, structural performance, and architectural aesthetics.

Organize site visits to construction sites or existing buildings that employ bearing wall and skeleton systems, allowing students to observe the systems in action and interact with professionals involved in the construction process.

Strategies

Conduct guided tours or interviews with architects, engineers, or construction managers who can provide insights into the decision-making processes and challenges encountered during the construction of such buildings.

These strategies aim to engage students actively in the learning process, promote understanding through visual and experiential means, and connect theoretical concepts to real-world examples. By employing a variety of teaching methods, students can develop a comprehensive understanding of bearing wall and skeleton systems in architectural building construction.

Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ أسبوعا

Structured SWL (h/sem)		Structured SWL (h/w)	
الحمل الدر اسي المنتظم للطالب خلال الفصل	33	الحمل الدراسي المنتظم للطالب أسبو عيا	۲,۲

Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	9.4	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب	٦,١٣
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	125		

Module Evaluation

تقييم المادة الدراسية

As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
	Quizzes	2	10% (10)	4, 9,13	LO#1,2
Formative assessment	Assignments			2, 4	1,2
	Projects	1	15 %	Continuous	LO # 1, 2 and 3
	Report	6	15%	2,3	LO # 1, 2
Summative assessment	Midterm Exam	1	10% (10)		LO # 1, 2 and 3
	Final Exam		50%		
Total assessr	ment		100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري						
٠٠٠ ي ٠٠٠						
Week	Material Covered					
Week 1	General introduction of buildings construction, Arrangement of the built process					
Week 2	Construction in Bearing wall sys. Advantage& disadvantage					
Week 3	Sequences work construction in Bearing wall sys.					
Week 4	Foundations insulation horizontal layer instates					
Week 5	Bearing wall built Parapet built					
Week 6	Mid semester exam					
Week 7	Opens building (Windows), (Doors)					

Week 8	Ins	Insulation material roof finishes							
Week 9	Ske	Skeleton build system advantage and disadvantage, Elements of skeleton building							
Week 10	Kir	Kinds of columns /kinds of girder							
Week 11	For	undations	s in skeleton bui	lding					
Week 12	Ro	ofs and F	Floors concrete s	lap					
Week 13	Pre	cast buil	dings system, in	troduction	1				
Week 14	Pre	cast buil	dings system, m	ain eleme	nts, Precast roofs floors concrete				
Week 15	Ve	rtical cor	nmunication ele	ments (ele	evators, escalators)				
Week 16	The	eoretical	test						
Learning an	ıd Tea	aching Re	esources						
تعلم والتدريس	سادر ال	24							
			Available in the Library?						
	1. الجامعة الجدران الحاملة وتفاصيلها المعمارية), انيس جواد, الجامعة العباني نظام الجدران الحاملة وتفاصيلها المعمارية), انيس جواد, الجامعة العبادي المباني العباني العباني العباني الله العبادي العباني الله العبادي العبادي العبادي العبادي العبادي وتفاصيله المعمارية, ١٩٨٧ على الأبداع الإنشاني, مرآزابحاث التركونسلت , الجيزة ١٩٩٨ العبادي الأبداع الإنشاني, مرآزابحاث التركونسلت , الجيزة ١٩٩٨ على الأبداع الإنشاني العبادي العبا					No No			
Websites		_	ww.greatbuildin n.edu/~Sullivan/	-	https://www.vitruvio.ch/, https://wv	ww.			
خطط الدرجات		ing Sche	me						
Group	Grade التقدير Marks (%) Definition								
Success Group	A – Exce	A – امتیاز 90 - Excellent 100 Outstanding Performance							

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

Module Information									
المادة الدراسية	معلومات								
Module Title	Comp 2D	putei	· Architectural	Drawing	Module Delivery				
Module Type	С	С					eory		
Module Code	ARC	ARC 215				Lab			
ECTS Credits	٥						orial		
SWL (hr/sem)	170						ctical ninar		
Module Lev	el		UGII	Semester	of De	liv	ery	3	
Administering Department			ARC	College	COE	COE			
Module Leader	Dr. E	mad	Hani Ismaeel	e-mail	emad	emad.hani.ismaeel@uomosul.edu.iq			
Module Lead Acad. Title	der's		Assistant Professor	Module L Qualificat			Pł	n.D.	
Module Tutor				e-mail					
Peer Review	er Nam	ne		e-mail					
Scientific Co Approval Da	ate			Version Number		1.0			
Relation with other Modules العلاقة مع المواد الدراسية الأخرى									
Prerequisite module	None					Semester			
Co-requisites module	None						Semeste	er	
Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية									

Module Aims أهداف المادة الدراسية	related to e software. 2 degree of in for it accor	To provide specialized information in the field of graphic computer software related to engineering and architectural drawings, especially the AutoCAD software. 2. enabling the user to use the commands gradually, according to the degree of importance of the order, its level of complexity, and the user's need for it according to the level of his capabilities and his ability of dealing with the details, orders, and elements of the software.							
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. ut 2. co 3. de and technic 4. dr 5. se	ressful completion of this course students will be able to: utilize basic principles of computer aided architectural drawing. compose a well-designed digital drawing of buildings. demonstrate familiarity with basic drawing terminology, tools, media niques of computer aided architectural drawing. draw using a full range of values with the intended media. select, frame, and compose from reality to the digital format. use effective techniques to draw objects							
Indicative Contents المحتويات الإرشادية	Computer Aided Drawing is a scientific course with theoretical and practical parts, concerned with providing specialized information in the field of graphic computer software related to engineering and architectural drawings, especially the AutoCAD software.								
Learning and Teach		es							
Strategies	process and enabling the importance according	d the use one user to use of the order to the leve	course is based on explaining the of the program in sequential and use the commands gradually, acceler, its level of complexity, and I of his capabilities and his ability ements of the software.	interrelated stages, cording to the degree of the user's need for it					
Student Workload	(SWL)								
محسوب له ۱۰ اسبوعا	الدراسي للطالب	الحمل							
Structured SWL (h/sem) Structured SWL (h/w) الحمل الدراسي المنتظم للطالب خلال المنتظم للطالب خلال السوعيا الفصل الفصل الدراسي المنتظم الطالب المنتظم الطالب المنتظم الطالب المنتظم الطالب المنتظم المنتظ									
Unstructured SWL (h/sem) Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب الحمل الدراسي غير المنتظم للطالب أسبوعيا أسبوعيا									
Total SWL (h/sem) اسي الكلي للطالب خلال الفصل									

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تقييم المادة الدراسية

As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
	Quizzes				
Formative assessment	Assignments	5	30% (30)	4 - 13	LO #1,2,3, 4, and 5
	Projects / Lab.	١	10% (10)	١٣	
	Report				
Summative	Midterm Exam	1 hr	10% (10)	7	LO # 1-5
assessment	Final Exam	3 hr	50% (50)	16	All
Total assessn	nent		100% (100 Marks)		
D 11 D1	/XXX 11 G 11 1				

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

Week	Material Covered
Week 1	AutoCAD software - user interface and initial drawing settings, AutoCAD program interface elements, Coordinate systems in the program, Angle units in the program, Drafting Settings: Grid, Snap, Ortho, Set Drawing Limits, Working with graphic files: Create a new file, Open previous file, Save the new file, Save another copy of the file - Save As, Import an Import file, Export an Export file Drawing Utilities graphic file services, File Audit, File Recover, Remove unused items Purge, View the properties for the Drawing Properties graphic file, Exit the current file - Close, Exit the program
Week 2	Advanced drawing aids and selection methods, Object Snap, General commands for Editing items, Undo, Redo, Cut elements, Copy items, Copy objects with Base Point, Paste items, Paste the elements according to their original coordinate, Clear objects, Find Text Objects - Find, Visual handling of graphic elements and handling of multiple file windows, Scene Redraw, Scene Regeneration, Zoom in and out, Scene Offset - Pan, Expand the Clean Screen drawing field, Modify the contents of the Toolbars, Sort view of multiple files in Windows dropdown list, Cascade arrangement, Tile Horizontal, Tile Vertical
Week 3	Draw basic two-dimensional elements, Line, Ray, Construction Line, Polyline, Multiline Spline, Ellipse ,line , Polygon, Rectangle shape , Arc , Circle , Donut

Week	Modify tools -first group: Erase, Copy, Move, Mirror, Rotate, Scale, Offset, Rectangular
4	and Polar Array
Week	Modify tools - second group: Properties, Match Properties, Stretch, Lengthen, Trim,
5	Extend, Break, Join, Chamfer, Fillet, Explode, Align, Polyline Edit, Mline Edit
Week 6	Application
Week 7	1st term Exam
Week 8	2D Drawing Commands – second group: Point, Modify Point Style, Divide, Measure, Hatch, Gradient, Region, Boundary, Text, Mtext
Week	Create Block Drawings: Insert pre-made graphic blocks, Insert a graphic source DWG
9	Reference, Insert bitmap image as an external Raster Image Reference, External resource management - External reference, Dealing with ready-made blocks in Tool Palettes
Week	Layers and drawing element settings: Color, Linetype, Line Weight, Text Style
10	
	Dimensions and measurements: Quick dimensions, Linear dimensions, Aligned
Week	dimensions, Measure the arc length, Ordinate coordinates, Polar and angular, measurement group, Radius measurement, Jogged distant radius measurement, Diameter
11	dimensions, Angular measure, Baseline dimensions, Continue dimensions, Multileader,
	Center mark, Jogged Linear, Oblique Measuring Lines, Align Text, Dimension Style
	Main tools: Workspaces, Palettes, Design Center, Spelling correction, Quick Select, Draw
Week 12	Order format, Inquiry, Block Editor, Save the drawing area as a digital image, General program options - Options, Program Assistant from the Help dropdown menu, System
	Variables
Week	Printing and output: Introduction to switching from the Model mode to the Layout mode,
13	Print command from the File dropdown menu
Week	Application
14	
Week	Application
15	
Week	Final Exam
16	
Delivery	Plan (Weekly Lab. Syllabus)
عي للمختبر	المنهاج الاسبود
Week	Material Covered
Week	Exercise 1
1	

Week 2	Exercis	se 2									
Week 3	Exercis	Exercise 3									
Week 4	Exercis	Exercise 4									
Week 5	Exercis	se 5									
Week 6	Exercis	se 6									
Week 7	None										
Week 8	Exercis	se 7									
Week 9	Exercis	se 8									
Week 10	Exercis	Exercise 9									
Week 11	Exercis	Exercise 10									
Week 12	Exercis	se 11									
Week 13	Exercis	se 12									
Week 14	Exercis	se 13									
Week 15	Exercis										
Learning والتدريس		nching Res	sources								
		Text			Available in the Library?						
Required	l Texts		Engineering Dra	nad Hani, nd Computer Aided awing, 2D Drawing AutoCAD®, 2018.	Yes						
Recomm Texts	nended										

W	ebs	site	S

Grading Scheme

مخطط الدرجات

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

Module Information معلومات المادة الدراسية										
Module Title	Englisl	n language	- Pre-Intermedia			Module Delivery				
Module Type	Е									
Module Code	ARC21	6				The Le	eor <u>y</u> ctu		√ ✓	
ECTS Credits	۲						tor	ial ctical		
SWL (hr/sem)	٥.			.		Se	mir	nar		
Module Level				Semeste	er of	f Delive	ry		1	
Administering	Departm	ent	Architectural Engineering	Colle ge	С	ollege (of E	Engineerir	ng	
Module Leader	Rawia	Marwan Da	abdoob	e- mail	ra	wia.dan	doc	ob@uomo	osul.edu	ı.iq
Module Leader	's Acad.	Title	Assist. Lecturer	Module Qualific					MSc.	
Module Tutor	Maysaa	Moffeq yo	ones Alobaidi	e- mail	M	Maysaa.moffeq@uomosul.edu.iq			u.iq	
Peer Reviewer	Name			e- mail						
Scientific Comm Date	nittee Ap	proval		Version	Nu	Number 1.0				
			Relation with oth							
Prerequisite mo	odule	English la	anguage - Beginne					Semeste	r	
Co-requisites n	nodule	None						Semeste	r	
	Mo		Learning Outcom				nte	ents		
		main Lear	ning Outcomes of				egir	nner modi	ule for t	he first
Module Aims اف المادة الدراسية	Dev - - arcl - - con and	architecture						topics. ucation rk with		
Module Learni Outcomes	lear	ning Englis	earning Outcomes sh language may a s and other counter	llow stude					ily with	fellow

مخرجات التعلم للمادة learning English language may ease the access to different architectural information and resources in English. الدراسية learning English language may improve and widen employment opportunities and make them more confident. Those outcomes can be fulfilled through cognition domain from Blooms Taxonomy as following: Remembering Vocabulary. Recognizing words and their meanings Describing things or situation Understanding 'Everyday English' Interpreting sentences Explaining a word meaning. Applying 'Spoken grammar' Comparing tools grammar Applying tools and words meanings in forming sentences. Carry out tools and grammars in writing. During the course, students will be able to speak interaction and production objectives, deal with most situations with basic English language. This course adopts Headway Student's Book, hence, is a communicative English language course designed by Oxford University. The course has been supplemented by a variety of communicative and business-related projects to ensure the outcomes Indicative of the program. The course aims to further develop students' language skills Contents and strategies in reading, writing, listening, and speaking to a level where they المحتويات الإرشادية can apply their language skills to longer, more complex material and tasks that help build confidence and prepare students to proceed to intermediate level. The course has twelve units where each is carefully designed to develop students' four main skills. The course also pays good attention to grammar, vocabulary, and pronunciation. Learning and Teaching Strategies استراتيجيات التعلم والتعليم Learning and teaching strategies refer to instructors' methods and approaches to facilitate student learning and achievement of module learning outcomes. These strategies aim to engage students, promote understanding, and enhance their knowledge and skills in advanced English course. Here are the adopted learning and teaching strategies: Lectures and presentations: the notes and the instructors are delivered through presentations introducing fundamental knowledge of English grammar and skills. Strategies Interactive discussions: promotes active learning and thinking by engaging students in discussions. Instructors can facilitate class discussions on specific topics, encouraging students to share their insights, ask questions, and explore different perspectives. Formative Assessments and Feedback: Regular formative assessments, such as quizzes and homework that help instructors gauge students' understanding and progress. Providing timely feedback allows students to identify areas for improvement and reinforces their learning. Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا 33 Structured SWL (h/w) 2.2 Structured SWL (h/sem)

الحمل الدراسي المنتظم للطالب خلال الفصل Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال				17	الحمل الدراسي المنتظم للطالب أسبوعيا أسبوعيا Unstructured SWL (h/w) الحمل الدراسي غير المنتظم الطالب أسبوعيا					
ي سطاب حمران الفصل	ي الكلم	الحمل الدرائد		30						
	Module Evaluation تقييم المادة الدراسية									
As		Tir	Time/Number		Weight (Marks)	W	eek Due	Relevant Learnin g Outcom e		
Formative	Qu	izzes		2		10% (10)		3,8	1,2	
assessmen	Homework assignments					27% (27)	2,3,4,5,6,7,8,9,11,12,13		1,2	
· ·		cussions& endance		1		3% (3)	1,2,3,4,5,6,	1,2		
Summativ e	Mio Exa	dterm am	1 hr			10% (10)		10		
assessmen t	Fin	al Exam		3 hr		50% (50)				
Total assess	smen	t				100% (100 Marks)				
					-	ın (Weekly	•			
***		1.6			النظري	هاج الاسبوعي	المنه			
Week Material Covered Unit 1: Getting to know you Present, past, future tenses Right word, wrong word Social expression										
Week 2 Unite 2: What Present tense Things I like Making conv				atever makes s doing						
Week 3	Unit 3: W Past tenses Regular and Saying who	d irre			?					
Week 4 Unit 4: Eat, drink, and be merry!										

	Qua	ntity						
	Foo	d, Can you come for dinner?						
Week 5	.Uni	t 5: Looking forward						
Verb patterns, Phrasal verbs, Expressing doubt and certainty								
Week 6		6: The way I see it						
Week o	What Like?, Synonyms, What's on?							
	Unit	7: Living history						
Week 7	Pres	ent perfect						
	Word ending, Word stress, Agree with me							
		8: Girls and boys to – should – must						
Week 8		e to – should – must ngs to wear						
		at things are made of						
	At tl	ne doctor's						
		9: Time of a story						
		perfect rative tenses						
Week 9		ing sentences- conjunctions						
	Feel							
	Exc	lamations with so and such						
Week 10	Mid	term Exam						
		10: Our interactive world						
Week 11		Passives						
		ds that go together						
		On the phone						
	Unit 11: Life's what you make it!							
Week 12		Present perfect continuous						
		th, Marriage, Death						
		d news, bad news						
		Unit 12: Just wondering.						
Week 13	First conditional if + will, Might, Second conditional if + will							
	Prepositions Thank you and goodbye!							
Week 14								
Week 14		ding and listening						
Week 15		ting report						
Week 16	Prep	paratory week before the final Exam						
		Learning and Teaching Resources						
		مصادر التعلم والتدريس						
		Text	Available in the					
		Text	Library?					
D : 15		John and Liz Soars (2016) New Headway Pre-	NY.					
Required Texts		Intermediate Student's Book Fourth Edition. OXFORD	No					
Recommended		University Press. ISBN: 978-0-19-476966-2						
			No					
	Texts							
Websites		Cardina						
Sc	heme	Grading						
		مخطط الدرجات						

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

Module Information									
معلومات المادة الدراسية									
Module Title	Arch	itect	ure Design 2		Mo	Module Delivery			
Module Type	С					☐ Theory ☑ Lecture			
Module Code	ARC	221			⊠I				
ECTS Credits	12						orial tical		
SWL (hr/sem)	۳.,						inar		
Module Leve	el		UGII	Semester	of De	live	ry	4	
Administerir Department	ng		ARC	College	COI	COE			
Module Leader	mozahim Mohammed Mustafa			e-mail	Moz	Mozahim.hadidi@uomosul.edu.iq			
Module Leader's Acad. Title			LECTURER	Module I Qualifica		I Ph D			Э.
Module Tutor				e-mail					
Peer Review	er Nan	ne	Name	e-mail					
Scientific Co Approval Da		ee		Version Number		1.0			
Relation with	h other	Mod	lules						
لدراسية الأخرى	المواد ال	قة مع	العلا						
Prerequisite module		No	ne				Semes	ster	
Co-requisites module None						Semester			
	Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية								
Module Ain	ns		-			-	_		design process (collecting
المادة الدراسية	أهداف	information analysis synthesis) analyting them to start a design project to							

	within a given context using architectural vocabulary and respecting local architectural identity								
Module Learning Outcomes	 At the end of the course, the student will be able to acquire the necessary knowledge to design 1buildings with limited spaces ((small project multi spaces)). The student can make reports related to the analysis of similar examples, standards, and site analysis, in addition to other information 								
مخرجات التعلم للمادة الدراسية	а • Т	about the project.							
Indicative Contents المحتويات الإرشادية	Platonic s forms, Fo with horiz Openings Circulatio	Introduction, Primary Elements, Visual proportion of form, Primary shapes, Platonic solid, Regular and irregular forms, Transformation of form, Additive forms, Formal collisions of geometry, Articulation of form, Defining space with horizontal & vertical elements, Closure, Qualities of Architectural Space, Openings in space / Lighting, Spatial Relationships, Spatial Organizations, Circulation, Proportion and Scale, Practice/ Preliminary Presentation Ordering Principles, Practice/ Development.							
_	Learning and Teaching Strategies استراتیجیات التعلم والتعلیم								
Strategies	The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students.								
Student Workload (الحمل ا							
Structured SWL (h. سي المنتظم للطالب خلال الفصل		153		uctured SWI اسي المنتظم للد أسبر			10		
	structured SWL (h/sem) Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب الحمل الدراسي غير المنتظم للطالب أسبو عيا					9.8			
Total SWL (h/sem) راسي الكلي للطالب خلال الفصل	SWL (h/sem) "** الحمل الدراسي الكلي للطال								
Module Evaluation تقييم المادة الدراسية									
	7.	Γime/Numb	oer	Weight (Marks)	Week Due	Rele	evant Learning Outcome		

As							
	Report	3	10	% (10)	2,3,4	1,2,3,4,5,AND6	
	Weekly assessment	13	10	% (10)	1,13		
	Concept supmission	1	5	5%(5)	5	6,8,9,10,11,12,13,14	
Formative assessmen		1	10	0%(10)	7		
	Pre. Final Presentation	1	15	% (15)	12		
	Final Presentation	1	20% (20)		16		
Summativ	<u> </u>	3 hr 5% (15)\			6,10	1,7	
assessmen	Final Exam (Day Sketch2)	4	4 15% (15) 16				
Total asse	ssment			0% (100 Marks)			
Delivery I	Plan (Weekly Syllab	us)					
وعي النظري	المنهاج الاسبو						
Week	Material Covered						
Week 1	Enclosure						
Week 2	Day sketch						
Week 3	Openings						
Week 4	Spatial relationships						
Week 5	Types of spatial organization						
Week 6	Movement – accessibility						
Week 7	Day sketch						
Week 8	Movement patterns ,Entrances						

Week 10 Proportion Week 11 Ordering principles/ Axes, Week 12 Hierarchy, datum Week 13 Symmetry and dominance Week 14 Rhythm, repetition Week 15 Final submission Learning and Teaching Resources Final submission Learning and Teaching Resources Architecture, form space & order by Francis D. K. Ching Required Texts Architecture, form space & order by Francis architecture, By D. Mohamed A. Shihab Recommended Texts No Websites No	Scale								
Hierarchy, datum Week 12 Hierarchy, datum Week 13 Symmetry and dominance Week 14 Rhythm, repetition Week 15 Rendering Week 16 Final submission Learning and Teaching Resources مصادر التعلم والتدريس Text Available in the Library? Required Texts Architecture, form space & order by Francis D. K. Ching Methods of systematic analysis of design in architecture, By D. Mohamed A. Shihab Recommended Texts Websites	Proportion								
Hierarchy, datum Week 13 Symmetry and dominance Week 14 Rhythm, repetition Week 15 Rendering Week 16 Final submission Learning and Teaching Resources مصادر التعلم والتدريس Text Available in the Library? Required Texts Architecture, form space & order by Francis D. K. Ching Methods of systematic analysis of design in architecture, By D. Mohamed A. Shihab Recommended Texts Recommended Texts Recommended Texts Websites					ples/ Axes,	ng princij	Orderin		
Symmetry and dominance Week 14 Rhythm, repetition Week 15 Rendering Week 16 Final submission Learning and Teaching Resources مصادر التعلم والتدريس Text Available in the Library? Required Texts Architecture, form space & order by Francis D. K. Ching Methods of systematic analysis of design in architecture, By D. Mohamed A. Shihab Recommended Texts Recommended Texts No Websites					m	chy, datu	Hierarc	I	
Rendering Week 15 Rendering Week 16 Final submission Learning and Teaching Resources مصادر التعلم والتدريس Text Available in the Library? Required Texts Architecture, form space & order by Francis D. K. Ching Methods of systematic analysis of design in architecture, By D. Mohamed A. Shihab Recommended Texts No Websites					dominance	etry and o	Symme		
Rendering					ion	n, repetit	Rhythn		
Learning and Teaching Resources مصادر التعلم والتدريس Text Architecture, form space & order by Francis D. K. Ching Methods of systematic analysis of design in architecture, By D. Mohamed A. Shihab Recommended Texts Recommended Texts No Websites						ing	Render	l I	
Text Available in the Library? Architecture, form space & order by Francis D. K. Ching Methods of systematic analysis of design in architecture, By D. Mohamed A. Shihab Recommended Texts Websites	Final submission							-	
Text Available in the Library? Architecture, form space & order by Francis D. K. Ching Methods of systematic analysis of design in architecture, By D. Mohamed A. Shihab Recommended Texts Websites					esources	ching Re	nd Tea	Learning ar	
Required Texts Architecture, form space & order by Francis D. K. Ching Methods of systematic analysis of design in architecture, By D. Mohamed A. Shihab Recommended Texts Websites No						_			
Required Texts D. K. Ching Methods of systematic analysis of design in architecture, By D. Mohamed A. Shihab Recommended Texts No Websites		Available in the Library?				Text			
Texts No Websites		Yes	D. K. Ching Yes Methods of systematic analysis of design in						
		No					nded		
								Websites	
Grading Scheme					me	ng Scher	Gradi		
مخطط الدرجات	خطط الدرجات								
Group Grade التقدير Marks (%) Definition			Definition	Group					
Success Group A – امتیاز 90 - 100 Outstanding Performance		g Performance		امتياز	ellent				
(50 - 100) B - Very		A hove average with some errors					(50 - 100)		

	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	FX – Fail	راسب (قيد المعالجة)	(45- 49)	More work required but credit awarded
(0-49)	F – Fail	راسب	(0-44)	Considerable amount of work required

Module Info	rmation	l							
معلومات المادة الدراسية									
Module Title	Free I	Module Delivery							
Module Type	S				□Tì	□Theory			
Module Code	ARC 2	222				□ Lab			
ECTS Credits	٤				□Tı ⊠Pr				
SWL (hr/sem)	1				\Box \Box S	emi	inar		
Module Lev	el		UGII	Semester	of Del	ive	ry	4	
Administerin Department			College	COE	COE				
Module Leader	Ahmed Yaroub Ghanem Tohala e-mail			e-mail	ahmadtohala@uomosul.edu.iq				
Module Lead Acad. Title	der's		Lecturer		Module Leader's PhD.			D.	
Module Tutor	e-mail								
Peer Review	er Nam	e	Name	e-mail	E-mail				
Scientific Committee Version Approval Date Number						1.0			
Relation wit	h other	Mod	lules						
العلاقة مع المواد الدراسية الأخرى									
Prerequisite module		None				Semester			
Co-requisite module	None None						Semest	er	
Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتانج التعلم والمحتويات الإرشادية									

Module Aims أهداف المادة الدراسية	The free hand drawing curriculum for the architecture student aims at several important goals for the formation of the architect during his academic years, which go beyond learning the means and techniques of free hand drawing to develop visual perception and a mature architectural engineering vision of the world, which is very important for the architect, including: • The balance of vision and the development of artistic taste for objects and formations • Exercising the sense of sight on the vision and linking it to previous information about the theory of perspective to form thought, perception and visualization of that form. • Exercising the hand on expression by creating a harmonious relationship between the vision, the brain and the hand to express the visual perception of the world. • Learn the method of measurement of proportions and proportions using hand, pen and sight • Recognize the differences between the values of light, shade and shadows in the theory of perspective and learn to express them. • Learn the methods and techniques of drawing with different materials such as pencils and colors • Developing the ability to see the elements of artistic formation, such as lines, shapes, sizes, textures and directions, and analyze them in the model. •Developing self-reliance in the process of vision and expression through a series of drawing exercises that range in difficulty from simple shapes to more complex ones. •Obtaining a musical visual vision that will be important and useful for future
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	 Aesthetic artistic taste through a musical vision of different shapes and configurations. Learn the theory of perspective, which is the basis for visual perception of the world. Create a harmonious relationship between vision, brain and hand for expression and the ability to express architectural ideas through free hand drawing. Using the measurement method for proportions and proportions by hand, pen and sight Realizing the differences in light values in the theory of perspective and being able to express them. Acquire the skills of using different drawing methods and techniques The artistic vision of the elements of the artistic composition, such as lines, shapes, sizes, textures, directions, and their analysis in the model
Indicative Contents المحتويات الإرشادية	 Visual perception of different shapes from the perspective of the concept of perspective and its concepts. Proportions in dimensions and shapes and measuring them by hand, pen and vision. Estimating light values, colors, tones, and the differences between them Derivations of various shapes from the basic cube shape.

5 . The relationship between vision, hand, visual perception, acquisition of vision skill and the ability to express.

Gaining the musical vision of an architecture student through practice and bringing concepts into practice

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies

- 1 . Giving the student the basic concepts and previous information about the reality that he draws through a model, and then criticizing the drawing so that the student acquires the skill of correct vision and the ability to express
- 2 . Diversifying the shapes and configurations of the model and the gradation in the degree of complexity from simple to complex

Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

	Structured SWL (h/w)	
63	الحمل الدراسي المنتظم للطالب أسبوعيا	4.2
	Unstructured SWL (h/w)	
37	الحمل الدراسي غير المنتظم للطالب أسبوعيا	2.46
100		
	37	الحمل الدراسي المنتظم للطالب أسبوعيا المعمل الدراسي المنتظم للطالب Unstructured SWL (h/w)

Module Evaluation

تقييم المادة الدراسية

As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
	Quizzes	2	10% (10)	4, 13	LO #1, 2, and 3
Formative assessment	Assignments	1	10% (10)	6	LO #3
	Projects / Lab.	4 hr	20% (20)	12	LO #3 and 4
	Report				
Summative assessment	Midterm Exam	4 hr	30% (30)	15	LO #1-4

	Final Exam	3 hr	30% (30)	16	All					
Total assessn	nent		100% (100 Marks)							
Delivery Plan	ı (Weekly Syllat	ous)			•					
إسبوعي النظري	المنهاج الاسبوعي النظري									
Week	Material Cove	ered								
Week 1	Introductory t	est for now the st	udent aptitu	ıde						
Week 2	Training for d	lraw lines in differ	rent direction	ons						
Week 3	Simple model	ls consist of cubes	3							
Week 4	Advance mod	lels consist of cub	es							
Week 5	Simple model	ls consist of circle	shapes & c	ylinders						
Week 6	Simple model	ls consist of obliq	ue cubes							
Week 7	Simple model	Simple model consist of glass bottles								
Week 8	Simple model	consist of potteri	es							
Week 9	simple model	consist of irregul	ar forms							
Week 10	Simple model	consist of textile	(clothes)							
Week 11	Simple real b	uilding in outdoor	•							
Week 12	more complex	x from the buildin	g in the pas	t lecture						
Week 13	more complex	x from the buildin	g in the pas	t lecture2	2					
Week 14	General discu	ssion with the stu	dent about	the draw	ing and paint					
Week 15	Final submission									
Week 16	Week 16 Final Exam									
Learning and	Learning and Teaching Resources									
مصادر التعلم والتدريس										
	Text Available in the Library?									
Required Texts drawing – a creative process , Francis d. k. ching , john Wiley & sons , inc.1990 drawing outdoor , Henry c. pitz , Watson- guptill publications , 1965 , new York how to paint and draw , bodo w. jaxtheimer , Thames and Hudson , 1962 , linden										

	watercolor technique, rex Brandt, sixth edition, Reinhold publishing corporation, 1963.	
Recommended Texts		No
Websites		

Grading Scheme

مخطط الدرجات

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

Module Information							
المادة الدراسية	معلومات						
Module Title	Histor	y of European Ar	chitecture	Mod	Module Delivery		
Module Type	С				Theory ✓		
Module Code	ARC223				Lecture	•	(
ECTS Credits	3	3			Tutorial √		
SWL (hr/sem)	75				Practical Seminar		
Module Lev	el	UGII	Semester	of Del	ivery	4	
Administerin Department	IARU		College	COE			
Module Leader	Dr. Hassan Mahmood Kasim		e-mail	Hassa	Hassan.kasim@uonosul.edu.iq		
Module Lead Acad. Title	der's	Lecturer	Module I Qualifica		s	Ph	.D.
Module Tutor			e-mail				
Peer Review	er Name		e-mail				
Scientific Co Approval Da			Version Number	1 1 ()			
Relation with other Modules العلاقة مع المواد الدراسية الأخرى							
Prerequisite module	None				Semest	ter	
Co-requisite module	None None				Semest	ter	
Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية							

Module Aims أهداف المادة الدراسية	 Inform students about the development of European Architecture from pre-Roman age until Renaissance and Baroque – 17th century. Enhance the concept of architectural interactions between European civilizations and others, especially Arabic-Islamic civilization. Analyzing historical examples of buildings according to architectural methodologies, to enhance students' understanding of architectural design. Free-hand sketch analysis of historical building to enhance students' skills of free-hand sketches of design concepts
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	- Knowledge and Understanding 1- Understanding the development of European architecture in terms of cultural interaction with other civilizations, especially Arab- Islamic Architecture. 2- Understanding the development of the history of architecture in terms of methods and techniques used in architectural design. B- Practical skills related to this academic program. 3- Ability to understand historical buildings through analyzing thinking. 4- Ability to use the conventions of architectural free-hand drawings to represent and analyze historical buildings. C- Thinking Skills 5- Ability to analyze historical buildings. 6- Architectural analysis by free-hand sketch according to architectural design methods.
Indicative Contents المحتويات الإرشادية	 Historical, cultural and social influences on architecture Natural and Environmental influences on architecture within every civilization Integration of structural methods with architectural form Architectural details and elements as identity of architectural styles Comprehensive Architectural analysis of buildings Manual drawings and diagrams as tools for architectural analysis

	7. F	ree hand di	awing	gs as tools for	represent	atio	ons of architecture	
Learning and	Teaching Strateg	gies						
ت التعلم والتعليم	استراتيجيا							
		Encouraging discussions		ents' active pa	rticipatio	n th	rough pre-lecture readings	
	reverse le	2. Promoting an interactive learning environment by implementing reverse learning, where students explore and research important examples of architectural history.						
Strategies	• I	Lectures						
	• A	Asking ques	stions	and Discussio	ns			
	• I	Drawing representation of historical buildings (Class work)						
	• A	Architectura	ıl anal	ysis by free-h	and sketc	h ((Class work)	
Student Worl	kload (SWL) دراسي للطالب محسو	الحمل ال						
Structured SV تظم للطالب خلال الفصل	WL (h/sem) الحمل الدراسي المن	33		uctured SWL (h/w) الحمل الدراسي المنتظم للط أسبو			2.2	
	SWL (h/sem) الحمل الدراسي غير	42	لطالب	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعي			۲,۸	
Total SWL (I كلي للطالب خلال الفصل	n/sem) الحمل الدراسي ال	75						
	Module Evaluation تقييم المادة الدراسية							
As		Time/Nun	nber	Weight (Marks)	Week Due	Re	elevant Learning Outcome	
	Quizzes	5		15% (10)	3, 6, 9, 12,15			
Formative	Class work	15		15%(15)	all			
assessment	Report			10%(10)				

As		Time/Number	Weight	Week	Relevant Learning Outcome
			(Marks)	Due	
				3, 6,	
	Quizzes	5	15% (10)	9,	
				12,15	
Formative	Class work	15	15%(15)	all	
assessment	Report		10%(10)		
	Discussions&				
	Analysis				
	team's work				
Summative	Midterm	1.5 ha	100/ (10)	8	
	Exam	1.5 hr	10% (10)	٥	
assessment	Final Exam	3 hr	50% (50)	16	
Total assessment			100%		
			(100		
			Marks)		

Delivery Plan (V	Weekly Syllabus)					
ج الاسبوعي النظري	المنهاج الاسبوعي النظري					
Week M	Material Covered					
Week 1 In	troduction to the history of European Architecture					
Week 2 G	reek Architecture: Architectural characters & Orders					
Week 3 G	reek Architecture: Temples					
Week 4 R	oman Architecture: Architectural characters					
Week 5 R	oman Architecture: Temples & Pantheon					
Week 6 R	oman Architecture: Other Building types					
Week 7 In	teraction between Roman and Eastern Architecture					
Week 8 Ea	arly Christian Architecture					
Week 9 B	yzantine Architecture					
Week 10 R	omanesque Architecture:					
Week 11 M	Mid Term Exam					
Week 12 G	Gothic Architecture:					
Week 13 Ea	Early Renaissance Architecture					
Week 14 H	High Renaissance Architecture					
Week 15 B	aroque Architecture					
Week 16 Pr	reparatory week before the final Exam					
Learning and Te	eaching Resources					
ادر التعلم والتدريس	مص					
	Text	Available in the Library?				
Required Texts	-	No				
Recommended Texts	Fletcher, Banister, A History of Architecture on the Comparative Method, R.I.B.A. London Mansbridge, John, Graphic History of Architecture, B.T. Bastsofrd Ltd., London, 1967.	Yes most of them				
Websites	Websites					
Grading Scheme						

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

Module Information									
المادة الدراسية	علومات	A							
Module Title	Physi	ics			Modu	le Delivery	1		
Module Type	S			☑ Theory☑ Lecture					
Module Code	ARC 224			□ Lab					
ECTS Credits	4			☐ Tutorial ☐ Practical					
SWL (hr/sem)	100				⊠ Ser	ninar			
Module Lev	vel U		UGII		emester elivery	of	4		
Administeri Department	-		ARC	C	ollege	COE			
Module Leader	Bisan	n Ehe	essan ALHAFIZ	e-mail <u>B</u>		Bisam.alh	Bisam.alhafiz@uomosul.edu.iq		
Module Lea Acad. Title	ider's		Lecturer		lodule I ualifica	Leader's tion	Ph.D.		
Module Tutor	Mays	aa M	offeq yones Alobaidi	e	-mail	nail Maysaa.moffeq@uomosul.edu.i		u.iq	
Peer Review	ver Na	me	Name	e	-mail	E-mail			
Scientific C Approval D		tee			Version Number 1.0				
Relation wir									
Prerequisite module	e None		ne			Semes	Semester		
Co-requisite module	tes None				Semes	Semester			
Module Aims, Learning Outcomes and Indicative Contents اهداف المادة الدراسية ونتانج التعلم والمحتويات الإرشادية									
Module Air	ms	The module aims for the curriculum on Architectural Physics (1) are as follows:							

أهداف المادة To provide students with a comprehensive understanding of the relationship الدراسية between architecture and climate. To introduce students to the principles and strategies of climate-responsive design in architecture. To explore the fundamental concepts of climate analysis and its influence on architectural design decisions. To develop students' knowledge and skills in utilizing passive design strategies for energy efficiency and thermal comfort. To familiarize students with sustainable technologies and practices related to renewable energy, water efficiency, and green infrastructure. To examine the impact of climate change on the built environment and equip students with resilient design strategies. To foster critical thinking and problem-solving abilities in addressing climate challenges through architectural design. To encourage students to analyze and evaluate case studies of climate-conscious architectural projects. To inspire students to explore future trends and innovations in sustainable architecture and climate-responsive design. To promote interdisciplinary collaboration and an understanding of the role of architecture in creating climate-friendly cities. These module aims aim to provide students with a strong foundation in the principles, techniques, and considerations related to architecture and climate, enabling them to design buildings that are responsive to their climatic conditions and contribute to environmental sustainability. The module learning outcomes for the curriculum on Architectural Physics (1) are designed to provide students with a comprehensive understanding of the relationship between architecture and climate and equip them with the necessary knowledge and skills to design sustainable and climate-responsive buildings. The learning outcomes include: Module Understanding the fundamental relationship between architecture and climate and Learning recognizing the significance of climate-responsive design in creating sustainable Outcomes built environments. Analyzing and interpreting climate data to inform design decisions, including assessing different climate zones, understanding microclimates, and analyzing مخرجات التعلم للمادة climate data for appropriate design responses. الدراسية Applying passive design strategies to enhance energy efficiency and occupant comfort, such as considering orientation, solar access, shading techniques, and

daylighting strategies in architectural design.

Evaluating and selecting sustainable materials and technologies for building envelope design and insulation, including understanding the importance of a well-insulated building envelope and considering design considerations for minimizing heat transfer.

Integrating renewable energy systems, such as solar panels and photovoltaics, into architectural designs and understanding the concept of net-zero energy buildings.

Designing water-efficient systems and incorporating rainwater harvesting techniques, including understanding the importance of water efficiency in sustainable architecture and developing strategies for rainwater collection and reuse.

Understanding the benefits and design considerations of green roofs, vertical gardens, and other green infrastructure elements, including their ecological and thermal advantages, and exploring design considerations and implementation techniques.

Conducting life cycle assessments (LCAs) and applying cradle-to-cradle design principles, including evaluating sustainable materials, assessing life cycle assessments, and exploring the concept of cradle-to-cradle design.

Developing resilient design strategies to address the impacts of climate change and extreme weather events, including understanding the challenges posed by climate change, exploring resilient design strategies, and considering adaptation and mitigation measures.

Applying bioclimatic design principles inspired by vernacular and traditional architecture, including learning from lessons in traditional and vernacular architecture, exploring climate-responsive design in different regions and cultures, and incorporating passive cooling and heating techniques.

Utilizing daylighting techniques and designing energy-efficient lighting systems, including understanding the importance of natural light, exploring techniques for optimizing daylight, and developing artificial lighting design strategies.

Understanding the urban heat island effect and implementing mitigation strategies in urban design, including exploring sustainable urban planning principles and designing resilient and climate-friendly cities.

Analyzing and evaluating case studies of exemplary climate-conscious architectural projects, including critically reflecting on design strategies and outcomes and drawing lessons for their own architectural practice.

Identifying emerging trends, technologies, and innovations in sustainable architecture and climate-responsive design, including staying updated on advancements in the field, exploring emerging technologies, and identifying opportunities for further research.

Demonstrating effective communication and teamwork skills through project presentations and discussions, including presenting design projects, engaging in discussions on architecture and climate-related topics, and collaborating with peers.

These module learning outcomes provide a clear roadmap for students to acquire the necessary knowledge and skills in designing sustainable and climate-responsive buildings

The curriculum on Architectural Physics covers a range of indicative contents to provide students with a comprehensive understanding of the subject. It begins with an introduction to the relationship between architecture and climate, emphasizing the importance of climate-responsive design and exploring key milestones in climate-conscious architecture. The fundamentals of climate are then explored, including different climate zones, climate data analysis, and the impact of microclimates on architectural design.

Passive design strategies are introduced, focusing on principles for energy efficiency, orientation, solar access, shading, and daylighting techniques. Thermal comfort and building performance are addressed, covering human thermal comfort requirements, energy-efficient HVAC systems and controls, and building envelope design for thermal insulation.

Indicative Contents

المحتويات الإرشادية

The curriculum also includes topics such as natural ventilation and cooling, building envelope and insulation, solar energy and photovoltaics, water efficiency and rainwater harvesting, and green roof and vertical gardens. These topics delve into the benefits and techniques of optimizing airflow, minimizing heat transfer, harnessing solar energy, and implementing sustainable water practices and green infrastructure.

Sustainable materials and life cycle assessment are explored to familiarize students with the selection of eco-friendly materials and the evaluation of their environmental impact. Resilient design and climate change adaptation are discussed, focusing on strategies to address the impacts of climate change and promote resilience in architectural design.

Additional topics include bioclimatic design and vernacular architecture, daylighting and lighting design, urban design and climate, and case studies showcasing exemplary climate-conscious architectural projects. The curriculum concludes with an exploration of future trends and opportunities for research and development in architecture and climate.

Overall, these indicative contents provide a comprehensive framework for students to develop knowledge and skills in designing sustainable and climate-responsive buildings, considering various climate factors and incorporating innovative approaches to address the challenges of a changing climate.

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies

The curriculum on Architectural Physics incorporates various learning and teaching strategies to enhance the students' understanding and engagement. These strategies include:

Lectures: Traditional lectures are used to deliver foundational knowledge and theoretical concepts related to architecture and climate. Expert instructors provide in-depth explanations and present case studies to illustrate real-world examples.

Interactive Discussions: Facilitated discussions encourage students to actively participate and share their thoughts, perspectives, and questions related to the topics being covered. This fosters critical thinking and deepens the understanding of the subject matter.

Group Activities: Collaborative group activities promote teamwork and allow students to work together on projects, problem-solving tasks, and design exercises. This encourages peer learning and the exchange of ideas.

Case Studies: In-depth analysis of case studies provides students with practical examples of climate-responsive architecture. They can study successful projects, evaluate design strategies, and understand the real-world challenges and solutions.

Site Visits: Organizing site visits to sustainable buildings and architectural landmarks offers students the opportunity to experience climate-responsive design principles in practice. They can observe the integration of passive design strategies, renewable energy systems, and sustainable materials in actual buildings.

Guest Lectures: Inviting guest speakers who are experts in the field of architecture and climate provides valuable insights and diverse perspectives. Guest lectures can offer practical experiences, industry trends, and emerging technologies, enriching the learning experience.

Hands-on Workshops: Practical workshops allow students to apply theoretical knowledge to hands-on activities. They can engage in activities such as building energy modeling, daylighting simulations, and sustainable material experiments to enhance their understanding of key concepts.

Research Projects: Assigning research projects to students enables them to delve deeper into specific topics of interest within architecture and climate. They can explore cutting-edge research, analyze data, and present their findings to the class.

These strategies aim to create an interactive and immersive learning environment, fostering a deeper understanding of the relationship between architecture and climate and preparing students to design sustainable and climate-responsive buildings.

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	٤,٢
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	37	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	۲,٤٦
Total SWL (h/sem)	100		

الحمل الدراسي الكلي للطالب خلال الفصل

Module Evaluation

تقييم المادة الدراسية

As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
	Quizzes	2	15% (15)	3,10	1,2
Formative assessment	Homework/ classworks	2	10%(10)	3,5,7	6,8,9,10,11,12,13,14,1 5
	Report	1	10% (10)	2,10	5,7,8,9,10,11,12,13,14
	Discussions& Analysis team's work	1	5% (5)	14,15	8,9,10,11,14,15
Summative	Midterm Exam	1 hr	1.% (10)	8	1,2,3,4,6,14,15
assessment	Final Exam	3 hr	50% (50)	16	1,2, 3, 4,6,14,15
Total assessment		100% (100 Marks)		•	•

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

Week	Material Covered
	Lecture 1: Introduction to Architecture and Climate
Week 1	Overview of the relationship between architecture and climate
WCCK 1	Importance of climate-responsive design
	Historical context and key milestones in climate-conscious architecture
	Lecture 2: Climate Fundamentals
Week 2	Understanding different climate zones and their characteristics
WCCR 2	Climate data analysis and interpretation
	Microclimates and their impact on architectural design
	Lecture 3: Passive Design Strategies
Week 3	Principles of passive design for energy efficiency
week 3	Orientation and solar access
	Shading and daylighting techniques

	Lecture 4: Thermal Comfort and Building Performance
	Human thermal comfort requirements
Week 4	Energy-efficient HVAC systems and controls
	Building envelope design for thermal insulation
	Lecture 5: Natural Ventilation and Cooling
W 1.5	Benefits of natural ventilation in buildings
Week 5	Strategies for optimizing airflow and cross-ventilation
	Passive cooling techniques, such as stack effect and evaporative cooling
	Lecture 6: Building Envelope and Insulation
W 1 c	Importance of a well-insulated building envelope
Week 6	Insulation materials and their properties
	Design considerations for minimizing heat transfer
	Lecture 7: Solar Energy and Photovoltaics
	Harnessing solar energy in architectural design
Week 7	Integration of solar panels and photovoltaic systems
	Net-zero energy buildings and energy-positive design
	Lecture 8: Water Efficiency and Rainwater Harvesting
W 10	Importance of water efficiency in sustainable architecture
Week 8	Design strategies for rainwater collection and reuse
	Water-saving fixtures and systems
	Lecture 9: Green Roof and Vertical Gardens
W 10	Benefits of green roofs and vertical gardens
Week 9	Design considerations and implementation techniques
	Ecological and thermal advantages of green infrastructure
	Lecture 10: Sustainable Materials and Life Cycle Assessment
W. 1.10	Selection of sustainable materials and their properties
Week 10	Life cycle assessment (LCA) and embodied energy
	Cradle-to-cradle design principles
Week 11	Lecture 11: Resilient Design and Climate Change Adaptation

	Understanding the impacts of climate change on the built environment									
	•	Resilient design strategies for extreme weather events								
	•	Adaptation and mitigation measures for future climate scenarios								
	Le	Lecture 12: Bioclimatic Design and Vernacular Architecture								
Week 12		Lessons from traditional and vernacular architecture								
• Climate-responsive design in different regions and cultures										
	•	Passive cooling and heating techniques from around the world								
	Leo	cture 13: Daylighting and Lighting Design								
Week 13	•	Importance of daylight in architectural spaces								
WCCK 13	•	Techniques for optimizing natural light and reducing energy cons	umption							
	•	Artificial lighting design for energy efficiency and visual comfort								
	Leo	cture 14: Urban Design and Climate								
Week 14	•	Urban heat island effect and mitigation strategies								
week 14	Sustainable urban planning principles									
	•	Designing resilient and climate-friendly cities								
	Leo	cture 15: Case Studies and Future Trends								
Week 15	•	Case studies of exemplary climate-conscious architectural projects								
WEEK 13	•	Emerging technologies and innovations in sustainable architecture								
	•	Opportunities for further research and development in architecture	e and climate							
Week 16	Fin	al Exam								
Learning an	d Te	aching Resources								
تعلم والتدريس	مادر ال	<u></u>								
		Text	Available in the							
			Library?							
		Textbooks and Reference Materials:								
Required Texts		-"Sustainable Architecture: Principles, Paradigms, and Case Studies" by Svetlana Shitova	No							
		-"Climate-Responsive Design: A Study of Buildings in Moderate and Hot Humid Climates" by Richard Hyde								

	"Passive Solar Architecture: Heating, Cooling, Ventilation,					
	Daylighting, and More Using Natural Flows" by David Bainbridge					
	-"Climate-Responsive Design: A Study of Buildings in Moderate					
Recommended	and Hot Humid Climates" by Richard Hyde					
Texts		No				
Texts	"Passive Solar Architecture: Heating, Cooling, Ventilation,					
	Daylighting, and More Using Natural Flows" by David Bainbridge					
	Websites dedicated to sustainable architecture and climate-responsive	design, such				
	as the U.S. Green Building Council (USGBC) and the World Green Building					
Websites	Council (WGBC)					
websites	` ,					
	Online platforms offering educational content on architecture and clim	nate, such as				
	Coursera, edX, and MIT OpenCourseWare					
	*					

Grading Scheme

مخطط الدرجات

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

Module Information									
المادة الدراسية	معلومات المادة الدراسية								
Module Title	Com	1put	er Architectural 3D	l Drawing	Mo	Module Delivery			
Module Type	С					□ Theory □ Lecture			
Module Code	ARC	225							
ECTS Credits	4						torial actical		
SWL (hr/sem)	100						minar		
Module Lev	el		UGII	Semester	of Del	liv	ery	4	
Administerin Department	Administering Department		ARC	College	COE	COE			
Module Leader	Dr. Eı	mad	Hani Ismaeel	e-mail	emad	emad.hani.ismaeel@uomosul.edu.iq			
Module Lead Acad. Title	der's		Assistant Professor	Module L Qualificat			Ph	n.D.	
Module Tutor				e-mail					
Peer Review	er Nam	ne		e-mail					
Scientific Co Approval Da	ate			Version Number		1.0			
دراسية الأخرى	Relation with other Modules العلاقة مع المواد الدراسية الأخرى								
Prerequisite module	Computer Architectural Drawing			ng 2D		Semeste	er	3	
Co-requisite module	None None						Semeste	er	
		_	Outcomes and I		ontent	ts			
أهداف المادة الدراسية ونتانج التعلم والمحتويات الإرشادية									

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Module Aims أهداف المادة الدراسية	1. To provide specialized information in the field of graphic computer software related to engineering and architectural drawings, especially the AutoCAD software. 2. enabling the user to use the commands gradually, according to the degree of importance of the order, its level of complexity, and the user's need for it according to the level of his capabilities and his ability of dealing with the details, orders and elements of the software.								
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	On successful completion of this course students will be able to: 1. utilize basic principles of 3D computer aided architectural drawing. 2. compose a well-designed 3D digital drawing of buildings. 3. demonstrate familiarity with basic 3D drawing terminology, tools, media and techniques of computer aided architectural drawing. 4. draw using a full range of values with the intended media. 5. select, frame, and compose from reality to the 3D digital format. 6. use effective techniques to draw 3D objects								
Indicative Contents المحتويات الإرشادية	Introduction to Computer-Aided Drafting and Design which includes 3D modeling, rendering, and Image processing. Major CAD drafting, and presentation software tools will be used for the production, management, and presentation of project information. Introduction to utilization of modeling and simulation software tools in Architectural Engineering.								
Learning and Teac		ies							
Strategies	The approach of the course is based on explaining the details of the drawing process and the use of the program in sequential and interrelated stages, enabling the user to use the commands gradually, according to the degree of importance of the order, its level of complexity, and the user's need for it according to the level of his capabilities and his ability of dealing with the details, orders and elements of the software.								
Student Workload	Student Workload (SWL)								
الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا									
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل الفصل			Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	3.2					
Unstructured SWL سي غير المنتظم للطالب خلال الفصل خلال الفصل	,	52	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	3.46					

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
	Quizzes				
Formative assessment	Assignments	5	30% (30)	4 - 12	LO #1,2,3, 4, and 5
	Projects / Lab.	1	10% (10)	13	
	Report				
Summative	Midterm Exam	1 hr	10% (10)	7	LO # 1-5
assessment	Final Exam	3 hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

Week	Material Covered
Week 1	Thickness, Elevation, Orbit, 3D views, UCS
Week 2	Modeling 1 : Poly Solid, Trace, Box, Wedge, Cone, Sphere, Cylinder, Torus, Pyramid
W 1.2	Modeling 2: Extrude, Press Pull, Revolve, Sweep, Loft, 3D
Week 3	Polyline, Helix, Planer, Solid, TD Face
Week 4	Modeling 3: Meshes, Revolved mesh, Tabulated mesh, Ruled mesh, Edge mesh, Network
Week 5	3D Operations: Gizmo,3D Move,3D Rotate,3D Scale,3D Align,3D Mirror,3D Array, Interfere, Slice,Thicken,Convert to Solid,Convert to Surface
	interfere, since, rineken, convert to sond, convert to surface
	Solid Editing: Union, Subtract, Intersect, Solid Edit, Extrude Face, Move Face, Rotate
Week 6	Face, OffsetFace, TaperFace, DeleteFace, Copy Face, Color Face, Copy Edge, Color
	Edge, Chamfer Edge, Fillet Edge, Imprint Edges, Separate, Shell, Clean, Check

Week 7	Application							
Week 8	1st term Exam							
Week 9	Render: Render Settings rendering process, Rendering Procedure, The final destination for the scene processing process, Image saving settings - Output File Name, Image resolution settings and characteristics, Managing preset display process methods, Improve processing and visibility							
Week 10	the AutoCA Materials w	AD program, Lib	orary of m tion and i	aterials for c nclusion of c	cladding and finishing materials in cladding and finishing, Texture cladding materials on the surfaces of s			
Week 11	Modifying materials: Create the texture material, Characteristics of cladding materials, General characteristics, Glossiness level refinement, Highlights, Reflectivity, Transparency, Translucency, Refraction, Cutout, Self Illumination, Bump Map - The roughness of the material							
Week 12	_		-	•	Veb Light, Natural Light, Render Properties, Geographic Location			
Week 13		Interaction: Can epth Cueing, Wo		•	otion Path Animation, Background, d 3D Blocks			
Week 14	Application	Application						
Week 15	Application	1						
Week 16	Final Exam	l						
Learning and		esources						
	Text				Available in the Library?			
Required Te	xts in com	Al-Allaf, Emad Hani, Rendering AutoCAD software, 2018. Al-Allaf, Emad Hani, 3D models omputer aided drawing software-oCAD software, 2018.			Yes			
Recommend Texts	ed							
Websites								
) مخطط الدرجات	Grading Sche	eme						
Group	Grade	التقدير	Marks (%)	Definition				

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

Module Information معلومات المادة الدراسية								
Module Title	Science of Mechanics				Mod	Module Delivery		
Module Type	S					☑ Theory ☑ Lecture		
Module Code	ARC	226						
ECTS Credits	3					utorial		
SWL (hr/sem)	۷٥					ractical eminar		
Module Lev	el		UGII	Semester	of Deli	very	4	
Administerin Department	- I AR(College	СОЕ	COE			
Module Leader	Mohammed Shakib Mohammed		e-mail	Mohammed.aljawahery@uomosul.edu.iq			ery@uomosul.edu.iq	
Module Lea Acad. Title	Lecturer		Lecturer	Module I Qualifica	e Leader's cation		Ph	.D.
Module Tutor	Tuqa	Wal	eed Ahmed	e-mail	new.matrix242@uomosul.edu.iq			
Peer Review	er Nan	ne	Name	e-mail	E-mail			
Scientific Co Approval Da		ee		Version Number	1.0			
Relation wit								
Prerequisite module		No	ne			Semest	ter	
Co-requisite module	- I None				Semester			
Module Aims, Learning Outcomes and Indicative Contents								
ويات الإرشادية	لم والمحت	ج التعا	لمادة الدراسية ونتائ	أهداف ا				
Module Air المادة الدراسية		1.	During thi	s course, sti	udents s	should dev	elop	the ability to:

- 2. Work comfortably with basic engineering mechanics concepts required for analyzing static structures
- 3. Identify an appropriate structural system to study a given problem and isolate it from its environment.
- 4. Model the problem using good free-body diagrams and accurate equilibrium equations
- 5. Identify and model various types of loading and support conditions that act on structural systems.
- 6. Apply relevant mathematical, physical and engineering mechanical principles to the system to solve and analyze the problem.
- 7. Understand the meaning of centers of gravity (mass)/centroids and moments of Inertia using integration methods.
- 8. Communicate the solution to all problems in an organized and coherent manner and elucidate the meaning of the solution in the context of the problem.
- 9. Stress and Strain: Mechanics of materials provides a deep understanding of stress and strain in materials. Stress refers to the internal force per unit area within a material, while strain measures the deformation or elongation of a material in response to stress. These concepts help engineers and researchers analyze and predict the structural response of materials under different loading conditions.
- 10. Material Properties: Mechanics of materials helps characterize and understand materials' mechanical properties. These properties include elasticity, plasticity, strength, stiffness, toughness, and fatigue resistance. Knowledge of these properties allows engineers to select appropriate materials for specific applications and design structures that can withstand anticipated loads.
- 11. Mechanics of materials plays a crucial role in the design, analysis, and understanding of the mechanical behavior of materials and structures. It enables engineers to make informed decisions to ensure various engineering applications' reliability, efficiency, and safety.

Discern and determine the magnitude of loads acting on simple

Students who complete this unit will be able to:

Module Learning Outcomes

- 4. Solving mechanic problems using principles of engineering
- structural members!

مخرجات التعلم للمادة

- 6. Analyse rigid body equilibrium
- 7. Construct free-body diagrams showing the function of simple structural elements.
- 8. Analyse the force(s) or moment(s) required to maintain a structure in equilibrium.

	9. Analyse external reactions on structural members under						
	applied loading.10. Knowledge of different types of applied loading on a given structure.						
	11. Understanding the distribution and the path of forces within a structure						
	12. Find center of gravity for a given body.						
	13. Find center of moment of inertia for a given body.						
	14. Understanding Material Behavior: By studying materials' mechanics, one deeply understands how materials respond to external forces and loads. This knowledge allows engineers to predict and analyze the behavior of materials in different situations, helping them make informed decisions regarding material selection, design, and structural integrity.						
	15. The outcomes of studying mechanics of materials and engineering mechanics empower engineers and researchers with the knowledge and skills necessary to design, analyze, and optimize the performance of materials and structures in a wide range of engineering applications.						
	1- Demonstrate competence in identifying, defining, and solving design problems.						
	2- Apply appropriate knowledge of techniques and codes of practice to design components and systems.						
Indicative Contents	3- Display the skills necessary to define, conduct and report on a bridge design project.						
المحتويات الإرشادية	4- communicate effectively using written, oral and graphical skills						
	5- use mathematical skills appropriate to an engineer						
	6- work independently and in a team environment						
	7- manage workloads and time effectively						
	Learning and Teaching Strategies						
	استراتيجيات التعلم والتعليم						
Strategies	The primary strategy adopted in delivering this module is encouraging student participation in the exercises while refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering simple experiments involving enjoyable sampling activities for the students.						
	Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا						
Structured SWL	-						
ي المنتظم للطالب خلال الفصل	2.2 الحمل الدراسي المنتظم للطالب 33 الحمل الدراس أسبوعيا						
Unstructured SW							

ظم للطالب		الحمل الدراسي غير خلال الف	طالب	غير المنتظم لل سبوعيا		الم			
	لي للط	VL (h/sem) الحمل الدراسي الكا القص		٧٥					
				le Evaluatio تقييم المادة الد	n				
	A	As	Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome			
		Quizzes	3	20% (20)	4, 13	LO # 3 – 10			
Formati assessme		Assignments	3	20% (20)	4, 13	LO # 3 – 10			
ussessiin		Projects / Lab.							
		Report	. <u></u>						
Summati	ive	Midterm Exam	2 hr	10% (10)	7	LO # 1-7			
assessme	ent	Final Exam	3 hr	50% (50)	16	All			
	Total assessment (100 Marks)								
			Delivery Plan ي النظري	ı (Weekly S نهاج الاسبوعم	-				
Week	Mat	terial Covered							
Week 1	Res	sultant of Force S	Systems.						
Week 2	Res	ultant of Concu	rent Force Systen	ns.					
Week 3	Mo	ment of Force, C	Couple.						
Week 4	Res	ultant of Non-C	oncurrent Force S	ystems.					
Week 5									
Week 6									
Week 7	Cen	ntroids and Cente	ers of Areas.						
Week 8	Cen	ntroids of Compo	osite Figures.						

Week	Momei	nts of ine	ertia.							
9										
Week 10	Momei	Moments of Inertia of Composite Figures.								
Week 11	Simple	Stresses	s, Axial Stress	, Shearing S	tress, Bearing Stress.					
Week 12	Bearing	g Stress,	Simple Strain	, Stress-Stra	nin Diagram, Hook"s Law.					
Week 13	Shear a	and Mon	nent in Beam,	Shear Force	Diagram, Bending Moment Di	agram.				
Week 14	Stresse	s in Bea	ms. Types of S	Stresses						
Week 15	Deflect	tion in B	eams							
Week 16	Final E	Exam								
_	Learning and Teaching Resources مصادر التعلم والتدريس									
		Text				Available in the Library?				
Required	l Texts	1- 2- Dynan 3-	Vector Mecnics(12 th), 201	hanics For I	14 th by Hibbeler, 2016 Engineers Statics and by Hibbleler	No				
Recomm Texts	ended	1- by Hib		g Mechanics	and Mechanics of materials	No				
Websites										
لط الدرجات		ing Sche	eme							
Group	Grad	le	التقدير	Marks (%)	Definition					
G	A - Exce	llent	امتياز	90 - 100	Outstanding Performance					
Success Group	B - Very Good جيد جدا 80 - 89 Above average with some errors									
(50 - 100)	C - C	Good	خت	70 - 79	Sound work with notable error	rs				
	D - Satis	factory	متوسط	60 - 69	Fair but with major shortcomi	ngs				
ı										

	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group	FX – Fail	راسب (قيد المعالجة)	(45- 49)	More work required but credit awarded
(0-49)	F – Fail	راسب	(0-44)	Considerable amount of work required

Module Information معلومات المادة الدراسية								
المادة الدراسية	معلومات							
Module Title	Architect	ural design 3		Module Delivery				
Module Type	С				Theory		□Lecture	
Module Code	ARC 311						□ Lab	
ECTS Credits	17						☐ Tutorial	
SWL (hr/sem)	۳.,						☑ Practical☑ Seminar	
Module Leve	el	UGII	Semester	of De	livery	3		
Administerin Department	ng	ARC	College	COI	COE			
Module Leader	Raed salin	n ahmed	e-mail	Raee	dalnummar	n@uomosul.edu.iq		
Module Lead Acad. Title	der's	Assistant Professor		Module Leader's Qualification Ms.c.				
Module Tutor	Dr. husser	ı salman	e-mail	husse	en@uomosı	ıl.edu.iq		
Peer Review		Ashraf ibahim Talaat Ibrahim Mayssa mofeq Aseel Ibrahim Eman	e-mail	E-ma	ail			
Scientific Co Approval Da			Version Number		1.0			
Relation with	h other Moo	lules						
لدراسية الأخرى	قة مع المواد ا	العلا						

Durana initia									
Prerequisite module	Architectural design 2	Semester							
Co-requisites module	None	Semester							
Module Aims, Lear	rning Outcomes and Indicative Contents								
م والمحتويات الإرشادية	أهداف المادة الدراسية ونتانج التعلم والمحتويات الإرشادية								
	Objectives:								
	1. To make students of architecture familiar with principles and concepts of planning taking into consideration the importance of the planning process and the role of the architect within this process. Students should be able to deal with the urban planning process and its elements including street and parking design and master plans besides introducing many world-wide experiments within this subject.								
	2. Systematic introduction to issue habitat, its components, and space stand on understanding residential spaces in be	ards. The objective of	f the studio will be						
Module Aims	3. To train students for undertaki frame structures, considering site planni	-							
أهداف المادة الدراسية	4. Study architecture prevalent in character and characteristic elements of	-	d its local						
	5. Green: Demonstration of world	l-leading sustainabili	ty principles						
	6. Global: Understanding of and i of the city, iconic, defining the identity a Neighborhoods in Mosul City, demonstrationally planning, design, contemporary, inspired time and place, poetic and thought-proven	nd character of differation of excellence in and inventive, and	rent n all aspects of						
	7. Responsiveness: Welcoming, of harmonious, visually connected with, an responsive to the site, the wider context, whole community.	d open to, its immedi	ate surroundings,						
Module Learning	On successful completion of this course,	students will be able	e to:						
Module Learning Outcomes	1 . Ability to gather, analyze, assess, recrelevant information within architectural		aratively evaluate						
مخرجات التعلم للمادة الدراسية	2 . Demonstrate an understanding of prinapply that knowledge within architectura		-						
الدراسية	3. Ability to develop imaginative and cre	eative thinking. Ii							
Indicative Contents	Design Principles and Concepts	:							
	1								

المحتويات الإرشادية

- a. Exploring design principles such as scale, proportion, rhythm, and balance
- b. Developing design concepts for the housing project
- c. Incorporating sustainable design strategies and principles
- d. Spatial Planning and Functional Requirements:
- e. Understanding the spatial organization and functional requirements of residential spaces
- 2. Designing efficient floor plans for various types of housing units
- 3. Considering circulation, privacy, and accessibility in the design
- 4. Building Systems and Construction Techniques:
- 5. Exploring different materials, finishes, and construction technologies suitable for housing design
- 6. Environmental Design and Sustainability: Incorporating sustainable design principles and strategies for energy efficiency

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies

The architectural design learning strategy focuses on empowering students to develop the skills and knowledge necessary for creative design in architectural projects. This strategy includes architectural dictionaries, case study analysis, interactive workshops, and hands-on training. Communication and collaboration among students are enhanced through design critique sessions and teamwork in group projects. This strategy provides students with opportunities to develop their technical, artistic, and critical thinking skills while achieving a balance between theory and practical application in the field of architectural design.

Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	154	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	10
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	146	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب	9.7
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل		٣.,	

	Module Evaluation تقييم المادة الدراسية									
As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome					
	Report	2	10%	2, 3,	LO # 1, 2,3,4					
	Weekly assessment	13	10%	1-14						
Formative	Concept submission	1	5%	5	LO #1,2,3,4,5,6					
assessmen	Mid-term submission	1	5%	8						
	Pre-final submission	1	15%	14						
	Final submission	1	25%	16						
Summativ	Midterm Exam (Day sketch 1)	3 hr.	10%		LO #1-9					
assessmen	Final Exam (Day sketch 2)	4 hr.	4 hr. 20%		LO #1-9					
Total asse	ssment		100% (100 Marks)							
	Plan (Weekly design المنهاج الاسبوعي لأستو	studio)								
Week	Material Covered									
Week 1	Introduction to mul	tifamily housing								
Week 2	Analysis of similar	examples								
Week 3	Site analysis									
Week 4	Design concept and	primary idea form	nulation							
Week 5	Discussion									
Week 6	Discussion									

Week 7

Week 8

Week 9

First submission

Details of plans

Elevations and visual aspect

Week 10	Details									
Week 11	Pre- F	Pre- Final submission								
Week 12	Discus	Discussion								
Week 13	Discus	sion								
Week14	Final p	resentat	ion settings							
Week 15	Final s	ubmissi	on							
			Learnin	g and Teac	ching Resour	ces				
				علم والتدريس	مصادر الت					
		Text				Available in the Library?				
Required	Texts	T 2	URBAN	dards for H idential De -HOUSIN NDARDS, 982 Housin	Jousing and evelopment G* Iraq (2010)	No				
Recomme Texts	ended					No				
Websites										
طط الدرجات		ng Sche	me							
Group	Grade التقدير Definition									
Success						g Performance				
(50 -	B - V Good	-	جيد جدا	80 – 89	Above aver	rage with some errors				
100)	C - C	lood	ختخ	70 – 79	Sound work	k with notable errors				

	D - Satisfactory	متوسط	60 – 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 – 59	Work meets minimum criteria
Fail Group	FX – Fail	راسب (قيد المعالجة)	(45- 49)	More work required but credit awarded
(0-49)	F – Fail	راسب	(0-44)	Considerable amount of work required

Module Information											
المادة الدراسية	معلومات	4									
Module Title	Worl	king	Drawings 1		Мо	Module Delivery					
Module Type	Core	Core					□Theory				
Module	ARC	312								⊠ Lec	ture
Code	ARC	312									∠ab
ECTS Credits	٥,٠٠									□Tuto	rial
SWL	170									⊠Pract	ical
(hr/sem)								ı		□ Sem	inar
Module Lev			UGIII	Semester	of De	live	ery	5			
Administeri Department	- I ARC.			College	COI	COE					
Module Leader	Talaat I. Alaane			e-mail	Tala	Talaat.Alaane @uomosul.edu.iq					
Module Lea Acad. Title	der's		lecturer	Module I Qualificat		's		M	A		
Module Tutor	Mays Aloba		Moffeq	e-mail	Maysaa.moffeq@uomosul.edu.iq						
Peer Review	er Nar	ne	Name	e-mail	E-mail						
Scientific Co Approval Da		ee		Version Number	1.0						
Relation wit	h other	Mo	dules								
دراسية الأخرى	المواد ال	قة مع	العلا								
Prerequisite module		No	ne				Semest	ter			
Co-requisite module	es None					Semester					
Module Aims, Learning Outcomes and Indicative Co					Conte	nts		'.			
ويات الإرشادية	م والمحت	ج التعل	مادة الدراسية ونتائع	أهداف ال							
Module Air		1.	Educate th	e student h	ow de	sigr	n the wo	orkin	g drawing sh	neet , Educate	e
المادة الدراسية											

(exercises and field visits), so the student should be able to work, read the working and architectural drawings and learn the technical details of their own. Introducing concrete designs and how to deal with concrete sections of various kinds and shapes, in addition to teaching students how to form and shape concrete structures with relatively large areas and dealing with details related to concrete sections as well as profiling the various architectural spaces designed from concrete sections. 3. The topic of building construction deals with execute methods of building construction from architectural view modern methods in building construction new technology in building construction (concrete structure). new technology and mechanism uses in building construction . On successful completion of this course students will be able to: 1. Teaching the student the principles of designing facilities with concrete structures, as well as identifying the types of concrete structures and how to deal with them as an essential part of the design of the architectural form. Apply clear practical programs that pay attention to the details of technology for the use of concrete structures. Without ignoring the standards of Module Learning architectural beauty and keeping pace with the development taking place in Outcomes developed countries by providing an architectural educational program that establishes a base based on modern technologies related to modern developments in the engineering and technical fields, especially with regard to مخرجات التعلم للمادة architectural construction and building installation. الدراسية 3. Paying attention to the quality of the architectural educational process by selecting updated curricula and completing self-evaluation reports in order to obtain academic accreditation. Interest in applied scientific research and the design of applied projects to build partnerships and relationships with distinguished institutions and universities, especially with regard to the subject of advanced structural and architectural construction, as well as the practical application of the subject of construction and contemporary design methods. Indicative content includes the following. Definition of building construction material and the relationship between initial ideas and planned Executive and to all the terms of reference., and how to set up the chart of the Executive and the standards of the scheme, as Indicative well as special symbols chart Executive.(20 hrs) Contents A detailed explanation of the physical layout of the level of sections المحتويات الارشادية and plans and interfaces, as architectural details(30 hrs) Detailed explanation of the method of construction-ready systems and various Construction. And Architectural details and construction of the building ready at the level of ceilings and walls, the work of the link between the prefabricated pieces (ready).(35 hrs)

Learning and Teaching Strategies										
ت التعلم والتعليم	استراتيجيات التعلم والتعليم									
Strategies		The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students.								
Student Worl	Student Workload (SWL)									
ب له ۱۰ اسبوعا	، محسو	لدراسي للطالب	الحمل اا							
Structured S	WL (h	/sem)		Struct	tured SWL (h/w)					
تظم للطالب خلال الفصل	سي المنا	الحمل الدراه	78	للطالب سبوعيا	ممل الدراسي المنتظم أ،	الد	5			
Unstructured	SWL	(h/sem)		Unstr	uctured SWL (h/	w)				
ر المنتظم للطالب خلال الفصل	سي غير	الحمل الدرا	47	للطالب سبوعيا	لدر اسي غير المنتظم أ،	الحمل ا	3.1			
Total SWL (1	Total SWL (h/sem)									
كلي للطالب خلال الفصل	_اسىي الن	الحمل الدر	125	125						
			1		Evaluation تقييم المادة ا					
As			Time/Nu	ımber	Weight (Marks)	Week	Due	Relevant Learning Outcome		
	Rep	ort	2		10%	2,	3,	LO # 1, 2,3,4		
	Wee	ekly ssment	13		10%	1-1	14			
Formative		nission								
assessment	subr	-term nission	1	_	5%	8	3			
	subr	final nission	1		15%	1	4			
	Fina subr	l nission	1		25% 1		16			

Summative	Midterm Exam (Day sketch 1)	3 hr.	10%	LO #1-9
assessment	Final Exam (Day sketch 2)	4 hr.	20%	LO #1-9
Total assessment			100% (100 Marks)	

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

Week	Material Covered
Week	Definition of building construction material and the relationship between initial ideas and
1	planned Executive and to all the terms of reference.
Week	How to set up the chart of the Executive and the standards of the scheme, as well as
2	special symbols chart Executive.
Week	First submission: A detailed explanation of the physical layout of the level of sections and
3	plans and interfaces, as architectural details.
Week	Detailed explanation of the planned construction and structural details.
4	
Week	Discussion
5	
Week	Discussion
6	
Week	Detailed explanation of the plan and details.
7	
Week	Day sketch
8	
Week	Second submission: Detailed explanation of the method of construction-ready systems and
9	various Construction.
Week	Architectural details and construction of the building ready at the level of ceilings and
10	walls, the work of the link between the prefabricated pieces (ready).
Week	Discussion
11	
Week	Discussion
12	
Week	Discussion
13	

Week 14	Discus	ssion							
Week 15	Final s	ubmissio	bmission						
Week 16	Final Exam								
Learning	and Tea	aching R	esources						
م والتدريس	صادر التعد	24							
		Text				Available in the Library?			
Required Texts Required Texts 3-For (Ar Res Wi			Working Drawings Handbook, feith Styles, Kindle Edition, 2014 by crchitectural Press, USA, 2014. Working Drawings Handbook, feith Styles, Andrew Bichard, SBN 780750663724 ublished September 4, 2004 by outledge, UK, 2004. Architectural Working Drawings, ourth Edition, Ralph W. Liebing Author) Ralph W. Liebing, Wiley, USA, 1999.			No No			
Recommo Texts	ended					No			
Websites						<u> </u>			
	Grad	ing Sche	me						
لمط الدرجات	مخطط الدرجات								
Group	التقدير Grade		التقدير	Marks (%)	Definition				
Success Group	A - Exce	llent	امتياز	90 – 100	Outstandin	ng Performance			
(50 - 100)	B - V Good	•	ختد خدا	80 – 89	Above average with some errors				

	C - Good	ختخ	70 – 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 – 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 – 59	Work meets minimum criteria
Fail Group	FX – Fail	راسب (قيد المعالجة)	(45- 49)	More work required but credit awarded
(0-49)	F – Fail	راسب	(0-44)	Considerable amount of work required

			Module Inf مادة الدراسية						
Module Title	(Compu	iter rendering techn	iques	Mod	Module Delivery			
Module Type			С						
Module Code			ARC313		⊠ La		re		
ECTS Credits			4		⊠ Tı ⊠ Pr				
SWL (hr/sem)			100						
Module Level			UGIV	Semester	of Deliv	ery			1
Administering I	Departme	ent	Architectural Engineering	College	Colleg	ge o	f Engineeri	ing	
Module Leader	Reem .	Ali Tal	lib Alothman	e-mail	reema	lothi	nan@uom	osul.e	edu.iq
Module Leader'	s Acad.	Title	Teacher	Module L	eader's	Qua	lification	Ph.I	Э.
Module Tutor	Miqda	m A. A	Al-Kurukchi	e-mail	<u>miqda</u>	man	neen@uom	osul.	edu.iq
Peer Reviewer N	Vame		Name	e-mail	E-mail	1			
Scientific Commi Approval Date	ittee			Version Number			-	1.0	
			Relation with o						
			د الدراسية الأخرى	علاقة مع الموا	ול				
Prerequisite module N		None	ne				Semester		
Co-requisites me	odule	None	None Seme			Semester	•		
	Mo		aims, Learning Outco ج التعلم والمحتويات الإرش				ntents		
Module Aims Module Aims أهداف المادة الدراسية tha			The course is concerned with applying the latest techniques used in computer aided architectural presentation by learning about drawing and rendering techniques by using 3d Max and Corona render software and also Lumion software to reach a computer aided architectural presentation that is as close to realism as possible. In addition to getting acquainted with the most important techniques to assist in architectural presentation through the use of Adobe Photoshop software. The course develops students' design skills and creative thinking through design and formal alternatives that students learn about during work, as well as the architectural presentation of various projects and in various environmental conditions.						
Module Learnin Outcomes خرجات التعلم للمادة الدراسية		 Remember and understand the most commands used in 3ds Max, Corona render and Lumion program. Comparing the different of using these programs. Describe different ways that used for drawing the same object or model. Naming and describing the different kinds for final render. The ability to choose the appropriate mode for final render, and judge its suitability for the building, reaching realistic scene. Carrying out the final renders of project by putting different effects to reach the most suitable scene and design for the project. Create iconic design of any project in any location. Integrating the design of any project with realism as possible. 							

	• Anal	vsis of many	effects, and different environment, and			
		e most suitable environment used to achieve final project				
	render.		•	J		
			making an explanatory poster, using the			
			awing, rendering and postproduction sur	table to		
	the location a			601		
	_		sthetic, architectural and engineering use ion and Photoshope.	es of 3d		
	• The use of architectural drawing and rendering programs to reach innovative engineering designs to reach a virtual reality using modern technologies in construction.					
	_	efit from thes	se programs in engineering and architect	ural		
			s the following.			
	• Intro	ducing the 3	ds Max program, import AutoCAD 2D	file,		
	create advanc	ed and 3D ar	rchitectural models and readymade mod	els [15		
			t and the most important modifiers used ign project. [9 hrs].			
Indicative Contents المحتويات الإرشادية	Corona render software, the types and forms of Corona light, Corona material. [12 hrs].					
	Blocks in 3ds Max program. [3 hrs].					
	Lumion program, modify the materials. elements, environment,					
	landscape and weather elements.					
	-					
			for architectural projects. [6 hrs].			
		-	p software program and post production	for an		
			n project. [6 hrs]. ching Strategies			
	Lean	التعلم والتعليم التعليم				
			will be adopted in delivering this mod			
Strategies	encourage students' participation in the exercises, while at the same time					
	refining and expanding their critical thinking skills. This will be achieved through training sessions by considering different projects.					
		unougnu	unning sessions by considering different	projects.		
	S	tudent Work	load (SWL)			
	اسبوعا	، محسوب لـ ٥١	الحمل الدراسي للطالب			
Structured SWL	(h/sem)	48	Structured SWL (h/w)	3		
الحمل الدراسي المنتظم للطالب خلال الفصل		10	الحمل الدراسي المنتظم للطالب أسبوعيا	<i>J</i>		
Unstructured SWL (h/sem)			Unstructured SWL (h/w)			
الحمل الدراسي غير المنتظم للطالب خلال الفصل		52	الحمل الدراسي غير المنتظم للطالب أسبوعيا	3.4		
Total SWL (h/	sem)					
الكلي للطالب خلال الفصل	1		100			
* *						

Module Evaluation تقييم المادة الدراسية						
As Time/Number Weight (Marks) Week Due Relev						
	Quizzes	2	10% (10)	5, 11		
Formative	Poster	1	15% (15)	15		
assessment	Projects / Lab.	1	5% (5)	7		
	Report					
Summative	Midterm	2 hr	20% (20)	8		
assessment	Exam	2 111	2070 (20)	0		
assessment	Final Exam	3 hr	50% (50)	16	All	
Total assess	ment		100% (100			
1 otal assess			Marks)			
		Delivery Plan	(Weekly Syllabu	s)		
		عي النظري	المنهاج الاسبود			
Week	Material Covered					
Week 1	Introducing the 3d settings, in addition	1 0	1 0	Č	rd, adjusting the basic ram.	
Week 2	Learn the basic co					
WCCK 2	Learn how to drav				ina applications	
Week 3	Import AutoCAD		geometric snape	es and Edit spi	me applications.	
Week 4	Learn how to crea readymade models				ded primitives) and EC Extended.	
Week 5	Edit poly applicati	ions.				
Week 6	Get to know the m		ne most importan	t modifiers us	sed. Start to convert	
Week 7	using instructions, and rates.	orders) Presenting	ng an exterior des	sign project (V	/illa exterior design	
Week 8	Mid Term Exam					
Week 9	Interior design of a practical semester	-	ace using directi	ves, orders an	d modifiers +	
Week 10	Learn about Coroca render and was an and how to install it in a dettings; and how to choose the appropriate shot.					
Week 11	Adjust Corona render settings. Recognize the types and forms of Corona light and how to choose, adjust and define the appropriate lighting to control it.					
Week 12	Learn how to add adjust them, in add method of manufa	dition to getting to	know the Coror	_	al editor and how rary, in addition to the	

	The way to insert the different blocks within the 3ds Max program and the way to insert							
Week 13	identifying the most important sites from them with their own material, in addition to							
	which the different blocks can be obtained.							
Week 14	The final render and the most important render settings to reach a more realistic scene							
WCCK 11	and prepare the horizontal and vertical projections.							
	Post production using Adobe Photoshop software program and adding different							
Week 15	backgrounds and environmental effects. Presenting a presentation for an exterior and							
	interior design project.							
Week 16	Final Exam							
	Delivery Plan (Weekly Lab. Syllabus)							
	المنهاج الاسبوعي للمختبر							
Week	Material Covered							
Week 1	Use the 3ds Max program's drawing board, adjusting the basic settings, and the main							
WEEK I	menus in the program.							
Week 2	Use basic commands and commands used in 3ds Max.							
Week 3	Draw two dimensional geometric shapes and Edit spline applications. Import AutoCAD							
Week 3	2D file.							
Weels 4	Create advanced and 3D architectural models (Extended primitives) and readymade							
Week 4	models used in architectural and construction works AEC Extended.							
Week 5	Use Edit poly applications.							
Week 6	Use the modifiers list and the most important modifiers used. Start to convert AutoCAD							
Week 0	2D file to 3D.							
Week 7	using instructions, orders) Presenting an exterior design project (Villa exterior design							
WEEK /	and rates.							
Week 8	Mid Term Exam							
Week 9	Draw an Interior design of an architectural space.							
Week 10	Lestell Consequence in 2da Mari							
	Set Corona carrierde and faugust ins 3 hail M settings, and choose the appropriate shot.							
Week 11	Adjust Corona render settings, and Corona light, adjust and define the appropriate							
	lighting to control it.							
	Add Corona material and their types using the Material editor and adjust them, in							
Week 12	addition to getting the Corona material library, and the method of manufacturing							
	different materials.							
	Insert the different blocks within the 3ds Max program and insert them with their own							
Week 13	identifying the most important sites from which the different material, in addition to							
	blocks can be obtained.							
Week 14	Render more realistic scene and prepare the horizontal and vertical projections.							
***	Add different backgrounds and environmental effects by using Adobe Photoshop							
Week 15	software program. Presenting a presentation for an exterior and interior design project.							

Week 16 F	Final Exa	ım						
Learning and Teaching Resources								
			علم والتدريس	مصادر الت				
			Tex	Available in the Library?				
Required Tex	its				-	No		
_		1- Graphics	A Fascinating journ s with 3ds Max. By I	•				
Recommended Texts			Autodesk 3D Max I ok. By Marcello Fem	No				
		3- 4-	Corona Render 1.3. Mastering Lumion 3					
Websites								
	Scheme	Gradi	ing					
			الدرجات	مخطط				
Group	Grade	e	التقدير	Marks (%)	Definition			
	A - E	xcellent	امتياز	90 - 100	Outstanding P	erformance		
Success	B - V Good	-	جيد جدا	80 - 89	Above average with some errors			
Group	C - G	ood	ختر	70 - 79	Sound work w	rith notable errors		
(50 - 100)	D - Satisf	actory	متوسط	60 - 69	Fair but with major shortcoming			
	E - Su	ıfficient	مقبول	50 - 59	Work meets m	ninimum criteria		
Fail Group	FX –	Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded			
(0-49)	F - F	ail	راسب	(0-44)	Considerable amount of work required			

Module Information							
المادة الدراسية	معلومات						
Module Title	Principl	es of Housing		Module Delivery			
Module Type	С			□ Theory □ Lecture			
Module Code	ARC 314	1					
ECTS Credits	3				utorial		
SWL (hr/sem)	75				ractical eminar		
Module Lev	el	UGIII	Semester	of Deli	very	5	
Administerin Department	ng	ARC	College	COE	COE		
Module Leader	Hassan a	lsinjary	e-mail	hasan	hasan.sanjary@uomosul.edu.iq		
Module Lead Acad. Title	der's	Assistant Professor	Module I Qualifica			Ph	.D.
Module Tutor	Omar	f. Mazin Jaber alallah aziz	e-mail		mazinjaber@uomosul.edu.iq Esraa malallah@uomosul.edu.iq		
Peer Review	er Name	Name	e-mail	E-mai	E-mail		
Scientific Co Approval Da			Version Number		1.0		
	Relation with other Modules العلاقة مع المواد الدراسية الأخرى						
Prerequisite module	None			Sem		ter	
Co-requisite module	es None				Semest	ter	
Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتانج التعلم والمحتويات الإرشادية							

	Introduce students to the fundamental Knowledge of science of Housing.					
	2. Introduce students to basics of science of Housing.					
Module Aims أهداف المادة الدر اسية	3. Making behavioral changes for students after they had understood Basics of Housing & main topics.					
	4. Enable students to look to Housing as an Economic sector,					
	5. Enable students to understand Planning Indicators : Housing Densities,(FAR) , (PC),(O.R.)in H. Planning .					
	6. Enable students to deal with Practical planning of Residential urban fabric.					
	Able to analyze and calculate the H. needs & H. demands & H. Shortage					
Module Learning	2. Able to count & deal with all kinds of housing densities.					
Outcomes	3. Able to understand and deal with housing Standards.					
مخرجات التعلم للمادة	4. Able to deal with architectural design project for a multi-family and multi-story housing complex.					
الدراسية	5. Able to to refining and expanding their designing skills in housing projects.					
	6. At the end of this course, students will have gained knowledge of the fundamental concepts behind the science of Housing .					
	Indicative content includes the following.					
	Introduction to basics of science of Housing, and looking to Housing as an Economic sector. Also Definitions & Discussion of Housing and human Needs, Housing Demand [5 hrs].					
Indicative	Definitions & Discussion of Housings Standards & types. Definitions & Discussion of Housing Strategies in Iraq. Housing Policies & Programs [10 hrs].					
Contents المحتويات الإرشادية	Façade of urban Housing patterns in Iraq.Discussion of The development of urban Housing patterns; environmental view, resident psychological & social views [15 hrs].					
	Housing Standards - Definition & Discussion, Types of H. Standards, Norms of H. Standards in Iraq & other countries [15 hrs].					
	Housing Density – Definition, Types & Discussion, How to estimate net residential Density, How to estimate gross residential Density Planning Indicators:(FAR), (PC),(O.R.),Housing Policies - Definition & Discussion, Housing Programs - Definition & Discussion [15 hrs].					
Learning and Teach	ning Strategies					

استراتيجيات التعلم والتعليم

Strategies

The main strategy that will be adopted is to make behavioral changes for students after they had understood Basics of Housing & main topics, so that they can deal with any problems in housing field and h. sector in future. Furthermore they get good background so that they can deal with architectural design project for a multi-family and multi-story housing complex. Also can deal with any urban design project,

Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

	Structured SWL (h/w)	
33	الحمل الدراسي المنتظم للطالب أسبوعيا	2
	Unstructured SWL (h/w)	
42	الحمل الدراسي غير المنتظم للطالب أسبوعيا	2.9
75		
	42	الحمل الدراسي المنتظم للطالب أسبوعيا المعمل الدراسي على Unstructured SWL (h/w) 42 الحمل الدراسي غير المنتظم للطالب أسبوعيا

Module Evaluation

تقييم المادة الدراسية

As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
	Quizzes	3	30% (30)	4, 13	LO #3, 4, 5, and 6
Formative assessment	Assignments	2	10% (10)	4, 13	LO #3, 4, 5, and 6
	Projects / Lab.				
	Report				
Summative	Midterm Exam	2 hr	10% (10)	7	LO # 1-6
assessment	Final Exam	3 hr	50% (50)	16	All
Total assessm	nent		100% (100 Marks)		

Delivery	Plan (Weekly Syllabus)
	المنهاج الاسبوء
هي النظري	المتهاج الإسبود
Week	Material Covered
Week 1	Introduction to Science of Housing. Housing as an Economic sector
Week 2	Discussion. & Housing Strategies in Iraq. Housing Policies & Programs - Definition
Week 3	Urban Housing patterns in Iraq. Report discussion; stage 1
Week 4	Façade of urban Housing patterns in Iraq.
Week 5	The development of urban Housing pattern ;environmental view.
Week 6	Report Discussion; stage 2 + monthly exam
Week 7	The development of urban Housing pattern ;resident psychological & social views.
Week 8	Housing Need - Definition & Discussion, How to estimate housing need
Week 9	Housing demand - Definition & Discussion, How to estimate housing demand
Week 10	& Housing Shortage - Definition & Discussion, Housing Stock - Definition
Week 11	Midterm Exam
Week 12	Housing Standards - Definition & Discussion, Types of H. Standards, Norms of H. other countries & Iraq Standards in
Week 13	Housing Density – Definition, Types & Discussion, How to estimate net residential Density, How to estimate gross residential Density
Week 14	Control of Housing Densities
Week 15	Discussion, & Planning Indicators :(FAR), (PC),(O.R.),Housing Policies - Definition Discussion & Housing Programs - Definition
Week 16	Final Exam
Learning	and Teaching Resources

		Text				Available in the Library?	
		Text				Transie in the Elerary.	
Required	Texts	- Progr	ams", 1958	aq - Problems - Doxiadis As ers - Republic	ssociates -	Yes	
- صالح، د. الهذلول، ١٩٨٦، (نمو وتطور المحيط العمراني المعاصر في المملكة العربية السعودية) ، من بحوث الموتمر الثامن للمدن العربية – الرياض. - "مدينة البكر الصناعية – في خور الزبير – التصميم الأساسي" – ١٩٧٥ – هينة تخطيط المدينة الصناعية بغداد. وزارة البلديات – مديرية التخطيط والهندسة العامة – بغداد. - حاتم، حازم الصوفي، ١٩٨٨، (مفهوم الفضاء المدينة العربية)، رسالة ماجستير مقدمة الى كلية الهندسة، جامعة بغداد. - مدينة الثرثار الجديدة، ١٩٨٧، تقرير المخطط الأساس النهاني"، حزيران، مجموعة اتحاد دوكسيادس. الهيئة المركزية للمدن الجديدة – الأمساس النهائي"، مزيران، مجموعة اتحاد تخطيطية عمرانية لحي السكن العربي المعاصر مع الجمهورية العراقية لحي السكن العربي المعاصر مع مقترح تصميمي لمحلة سكنية نموذجية" رسالة مقدمة تغداد الى مركز التخطيط الحضري والاقليمي / جامعة بغداد النيل درجة الماجستير سنة ، ١٩٩٩ بغداد					Yes		
Websites							
طط الدرجات		ing Sche	me				
Group	Grad	le	التقدير	Marks (%)	Definition		
	A - Exce	ellent	امتياز	90 – 100	Outstandin	ng Performance	
Success	B - V	•	ختر خدا	80 – 89	Above ave	erage with some errors	
Group (50 -	C – 0	Good	ختر	70 – 79	Sound wo	rk with notable errors	
100)	D - Satis	sfactory	متوسط	60 – 69	Fair but w	rith major shortcomings	
	1			50 -	ļ	ets minimum criteria	

Fail Group	FX – Fail	- Fail (مسب (قيد المعالجة) (45-		More work required but credit awarded
(0-49)	F – Fail	راسب	(0-44)	Considerable amount of work required

Module Information										
المادة الدراسية	معلومات	•								
Module Title	Reinf	Reinforced Concrete Design				dul	le Delive	ery		
Module Type	Suppo	ort								☑ Theory
Module					_					□ Lecture
Code	ARC	315								□ Lab
ECTS Credits	4									□ Tutorial
SWL	100									☐ Practical
(hr/sem)	100									☐ Seminar
Module Lev	vel		UGIII	Semester	of De	live	ery	5		
Administeri Department			ARC	College	COI	COE				
Module Leader		Mohammed Shakib Mohammed		e-mail	Moh	Mohammed.aljawahery@uomosul.edu.iq			l.edu.iq	
Module Lea Acad. Title	der's		Lecturer	Module I Qualifica		I Ph I)				
Module Tutor	Fahad	l Ak	ram Saeed	e-mail	Faha	Fahad.akram@uomosul.edu.iq				
Peer Review	ver Nan	ne	Name	e-mail	E-ma	ail				
Scientific Co Approval D		ee		Version Number		1.	0			
Relation wit										
Prerequisite module		No	ne				Semes	ter		
Co-requisite module	es	None					Semes	ter		
Module Aims, Learning Outcomes and Indicative C					Conte	nts				
Module Air المادة الدراسية		rein ski	is course aims to nforced concrete Ils and technique ments such as be	according es to design	to the	A(ecti	CI code a	and preint	provide the stu forcement for	udents with the the structural

educates participants on the principles, design concepts, construction techniques, and safety considerations associated with reinforced concrete. Here are some key objectives of a reinforced concrete course:

- 1. Understanding material properties: Participants learn about the properties of concrete and steel, including their strengths, limitations, and behavior under different loading conditions. This knowledge helps in designing and analyzing reinforced concrete structures.
- 2. Design principles: The course covers the fundamental principles of reinforced concrete design, including load analysis, structural stability, durability, and serviceability requirements. Participants learn to apply design codes and standards to ensure safe and efficient structures.
- 3. Structural analysis and modeling: Participants gain knowledge of structural analysis techniques specific to reinforced concrete structures. They learn to calculate internal forces, design moments, and shear forces to ensure structural integrity and optimal design.
- 4. Construction techniques: The course covers various construction methods and practices related to reinforced concrete. Participants learn about formwork systems, reinforcement placement, concrete mixing, curing, and quality control measures. Practical aspects such as construction sequencing and safety considerations are also addressed.
- 5. Codes and regulations: Understanding building codes, regulations, and industry standards is crucial in designing and constructing reinforced concrete structures. The course familiarizes participants with relevant codes and guidelines, ensuring compliance and adherence to safety standards.
- 6. Problem-solving and troubleshooting: Participants develop problem-solving skills to address challenges encountered during the design and construction phases. They learn to identify potential issues, assess risks, and implement appropriate solutions for reinforced concrete structures.

Overall, a reinforced concrete course provides individuals with a comprehensive understanding of the principles, design methods, and construction practices related to reinforced concrete structures. It equips participants with the necessary knowledge to effectively contribute to designing, constructing, and maintaining such structures in the construction industry.

Module Learning Outcomes

Module Learning Outcomes (MLOs) are specific statements describing the expected knowledge, skills, and competencies students should acquire by the end of a particular module or course. The MLOs guide the curriculum and assessment strategies, ensuring students achieve the desired learning outcomes. Here are some examples of Module Learning Outcomes for a reinforced concrete course:

مخرجات التعلم للمادة الدراسية

Understand the properties and behavior of reinforced concrete materials:

• Describe the properties of concrete and steel and their role in reinforced concrete structures.

- Explain the behavior of reinforced concrete under different loading conditions.
- Analyze the interaction between concrete and steel reinforcement.

Apply design principles and codes to reinforced concrete structures:

- Apply design principles for reinforced concrete beams, columns, slabs, and foundations.
- Interpret and utilize relevant design codes and standards in the design process.
- Evaluate and select appropriate reinforcement detailing for structural elements.

Analyze and design reinforced concrete structures:

- Perform structural analysis and calculations for reinforced concrete members.
- Determine internal forces, moments, and shear forces in reinforced concrete elements.
- Design reinforced concrete elements considering load capacity, deflection, and stability requirements.

Understand construction techniques and practices for reinforced concrete:

- Explain the construction process for reinforced concrete structures.
- Identify and select appropriate formwork systems for different structural elements.
- Understand the procedures for placing reinforcement and pouring concrete.

Demonstrate effective problem-solving and decision-making skills:

- Identify and resolve design and construction issues related to reinforced concrete structures.
- Evaluate alternative solutions and make informed decisions based on structural requirements.
- Apply critical thinking and analysis to troubleshoot problems encountered in reinforced concrete projects.

Apply safety considerations and quality control measures:

- Identify potential safety hazards and implement appropriate safety measures.
- Understand quality control procedures for concrete mixing, curing, and testing.

	Ensure compliance with safety regulations and industry standards during construction.								
	These are general examples, and the specific Module Learning Outcomes may vary depending on the institution, the level of the course, and the depth of knowledge and skills expected from the students								
	Indicative contents provide an overview of the topics or subject areas typically covered within a module or course. These contents give students an idea of what they can expect to learn and study during the course. Here are some indicative contents for a reinforced concrete course:								
	Introduction to Reinforced Concrete:								
	Definition and characteristics of reinforced concrete.								
	Advantages and limitations of reinforced concrete structures.								
	Historical development and applications of reinforced concrete.								
	Properties of Concrete and Steel:								
	Properties and behavior of concrete materials.								
	Properties and behavior of steel reinforcement.								
	Compatibility between concrete and steel reinforcement.								
Indicative	Design Principles and Codes:								
Contents	Design philosophy and principles for reinforced concrete structures.								
المحتويات الإرشادية	Load analysis and determination of design loads.								
	Introduction to relevant design codes and standards.								
	Flexural Design of Reinforced Concrete Beams:								
	Introduction to flexural behavior and design of beams.								
	Calculation of design moments and reinforcement requirements.								
	Consideration of factors such as deflection and shear.								
	Shear in Reinforced Concrete:								
	Shear behavior and design of reinforced concrete elements.								
	Calculation of shear forces and design of shear reinforcement.								
	Compression and Tension Members:								
	Design of reinforced concrete columns and compression members.								
	Determination of axial loads and design considerations.								
	i de la companya de								

• Tension members: design of reinforced concrete ties and stirrups.

Reinforced Concrete Slabs:

- Behavior and design principles for reinforced concrete slabs.
- One-way and two-way slab design methods..
- 8- Foundations:
- Design principles for reinforced concrete footings and foundations.

Construction Techniques for Reinforced Concrete:

- Formwork systems for reinforced concrete structures.
- Reinforcement placement and concrete pouring procedures.
- Curing, quality control, and inspection of concrete structures.

The actual contents may also be influenced by the duration of the course and the depth of knowledge and skills intended to be covered.

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

- Learning and teaching strategies refer to instructors' methods and approaches to facilitate student learning and achievement of module learning outcomes. These strategies aim to engage students, promote understanding, and enhance their knowledge and skills in the context of a reinforced concrete course. Here are some common learning and teaching strategies that can be employed:
- Lectures and Presentations: Instructors can deliver lectures and
 presentations introducing key concepts, theories, and principles related to
 reinforced concrete. These sessions can provide a foundational
 understanding of the subject matter and help students grasp fundamental
 knowledge.
- Case Studies and Real-Life Examples: Incorporating case studies and reallife examples allows students to see the practical application of reinforced concrete principles. Analyzing and discussing real-world projects can deepen their understanding of design, construction, and problem-solving processes.
- Interactive Discussions: Engaging students in discussions promotes active learning and critical thinking. Instructors can facilitate class discussions on specific topics, encouraging students to share their insights, ask questions, and explore different perspectives on reinforced concrete.
- Group Activities and Projects: Collaborative group activities or projects
 enable students to work together to solve problems, design structures, or
 analyze case scenarios. This approach fosters teamwork, communication
 skills, and the application of learned concepts in a practical context.
- Field Trips and Site Visits: Organizing field trips or site visits to construction sites, reinforced concrete structures, or material testing laboratories provides students with a practical understanding of

Strategies

- construction practices, reinforcement detailing, and quality control procedures.
- Problem-Based Learning: Presenting students with real-world problems related to reinforced concrete encourages them to apply their knowledge, think critically, and develop problem-solving skills. Instructors can guide students through problem-solving, encouraging them to analyze, evaluate options, and propose solutions.
- Formative Assessments and Feedback: Regular formative assessments, such as quizzes, assignments, or in-class exercises, help instructors gauge students' understanding and progress. Providing timely feedback allows students to identify areas for improvement and reinforces their learning.
- Independent Study and Research: Encouraging students to engage in independent study and research promotes self-directed learning. Assigning relevant readings, research projects, or literature reviews on specific topics in reinforced concrete enables students to deepen their knowledge and explore areas of interest.

Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem)		Structured SWL (h/w)	
الحمل الدراسي المنتظم للطالب خلال الفصل	33	الحمل الدراسي المنتظم للطالب أسبوعيا	2
Unstructured SWL (h/sem)		Unstructured SWL (h/w)	
الحمل الدراسي غير المنتظم للطالب خلال الفصل	67	الحمل الدراسي غير المنتظم للطالب	4.4
Total SWL (h/sem)			
الحمل الدراسي الكلي للطالب خلال القصل	100		

Module Evaluation

تقييم المادة الدراسية

As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
	Quizzes	3	20% (20)	4, 13	LO # 1 – 6
Formative assessment	Assignments	3	20% (20)	4, 13	LO # 1 – 6
	Projects / Lab.				
	Report				

Summative assessment	Midterm Exam	2 hr	10% (10)	7	LO # 1-4
	Final Exam	3 hr	50% (50)	16	All
		1	100%		
Total assessm	nent		(100		
			Marks)		
Delivery Plan	ı (Weekly Syllat	ous)	1	1	

المنهاج الاسبوعي النظري

Week	Week Material Covered									
week	Material Covered									
Week 1	Introduction to Reinforced Concrete, Properties of Reinforcing Concrete.									
Week 2	Resultant of Concurrent Force Systems.									
Week 3	Ultimate Strength Theory, Design of Beam in Maximum Condition.									
Week 4	Design of Beam in Maximum Condition., Design of Shear Reinforcement, Minimum Shear Reinforcement.									
Week 5	Design of Singly Reinforced Beam.									
Week 6	Design of Slabs, Design of One Way Slab. Design of Continuous Beam and One Way Slab.									
Week 7	Loading Patterens for Continuous Beam and One Way Slab, ACI-Coefficients for Moment and Shear.									
Week 8	Design of Short, Tied Columns, Design of Axially Loaded Columns.									
Week 9	Design of Longitudinal and Tied Reinforcement.									
Week 10	Design of Eccentrically Loaded, Short Columns.									
Week 11	Design of Footings.									
Week 12	Design of Wall Footing.									
Week 13	Design of Bending and Secondary Reinforcement.									

Week 14	Design	of Spre	of Spread Footing.								
Week 15	Equation	ons and l	s and Metod of Design, Interaction Diagrams.								
Week 16 Final Exam											
Learning and Teaching Resources											
مصادر التعلم والتدريس											
		Text				Available in the Library?					
Required Texts 4- Darwin, David, Charles William Dolan, and Arthur H. Nilson.Design of concrete structures. New York, NY, USA:: McGraw-Hill Education, 2020. 5- Hassoun, M. Nadim, and AkthemAl-Manaseer.Structural concrete: theory and design. John wiley& sons, 2020. 6- Aghayere, A. O., Limbrunner, George F. (2014) "DESIGN OF REINFORCED CONCRETE"8th ed. Library of Congress, USA.						No					
Recommer Texts	nded	ACI-S	tandared 318-19)		No					
Websites											
	Grad	ing Sche	eme								
فطط الدرجات	مذ										
Group	Grad	e	التقدير	Marks (%)	Definition						
	A - Exce	llent	امتياز	90 – 100	Outstandin	g Performance					
Success Group	B - V Good	•	جيد جدا	80 – 89	Above average with some errors						
(50 - 100)	C – 0	Good	خته	70 – 79	Sound wor	k with notable errors					
	D - Satis	factory	متوسط	60 – 69	Fair but wi	ith major shortcomings					

	E - Sufficient	مقبول	50 – 59	Work meets minimum criteria
Fail Group	FX – Fail	راسب (قيد المعالجة)	(45- 49)	More work required but credit awarded
(0-49)	F – Fail	راسب	(0-44)	Considerable amount of work required

Module Information معلومات المادة الدراسية										
Module Title		English	language - Inter	mediate		Mod	ule Delivery	,		
Module Type					Е	√	Theo	ory		
Module Code	ARC	C316				✓ L	Lect Lab	ture		
ECTS Credits	2					Т	Cutorial Practical			
SWL (hr/sem)	٥,					S	Seminar			
Module Level				Semester	of De	elivery		3		
Administering De	partm	ent	Architectural Engineering	College	Co	llege o	f Engineerir	ng		
Module Leader	Raw	ia Marwan	Dabdoob	e-mail	raw	ia.dano	doob@uomo	sul.edu	.iq	
Module Leader's	Acad.	Title	Assist. Lecturer	Module L	eadei	r's Qua	alification	MSc.		
Module Tutor Maysaa Moffeq y Alobaidi			q yones	e-mail	Mag	Maysaa.moffeq@uomosul.edu.iq			u.iq	
Peer Reviewer Na	me			e-mail						
Scientific Committ Date	ee Ap	proval		Version N	ersion Number 1.0					
			Relation with o			•				
	_		الدراسية الأخرى		الع				_	
Prerequisite modu			anguage – Pre-In					1		
Co-requisites mod		None	I comin o Outo	J T.	. 4: 4	: C-	Semester			
	IVIC		s, Learning Outco ع التعلم والمحتويات ا							
Module A المادة الدراسية	ent's skills ves: Under ves: Under ves: write s ives: exten wn learning	in Enstand stand imply ded contact and hitect	anguas nglish the ma basic about about ommur develo	ge Beginner language ind ain points of language to t familiar an nication skil ppment and ducational ai	first sicludes to clear spread and architals in edability to	tage is: he four peech. by topic tectural ucation to work				
Module Learning Outcomes مخرجات التعلم للمادة الدراسية		1. easily with 2.	ule Learning Ou learning English th fellow global s learning English ural information	language students and language	may d other may	allow er coun y ease	students to terparts.			

3. learning English language may improve and widen employment opportunities and make them more confident. Those outcomes can be fulfilled through cognition domain from Blooms Taxonomy as following: Remembering Vocabulary. 1. Recognizing words and their meanings Describing things or situation 2. Understanding 'Everyday English' Interpreting sentences Explaining a word meaning. 3. Applying 'Spoken grammar' Comparing tools grammar Applying tools and words meanings in forming sentences. Carry out tools and grammars in writing. During the course, students will be able to speak interaction and production objectives, deal with most situations with basic English language. This course adopts Headway Student's Book, hence, is a communicative English language course designed by Oxford University. The course has been supplemented by a variety of communicative and business-related projects to ensure the outcomes of the program. The **Indicative Contents** course aims to further develop students' language skills and strategies in المحتويات الإرشادية reading, writing, listening, and speaking to a level where they can apply their language skills to longer, more complex material and tasks that help build confidence and prepare students to proceed to intermediate level. The course has twelve units where each is carefully designed to develop students' four main skills. The course also pays good attention to grammar, vocabulary, and pronunciation. Learning and Teaching Strategies استراتيجيات التعلم والتعليم Learning and teaching strategies refer to instructors' methods and approaches to facilitate student learning and achievement of module learning outcomes. These strategies aim to engage students, promote understanding, and enhance their knowledge and skills in advanced English course. Here are the adopted learning and teaching strategies: Lectures and presentations: the notes and the instructors are delivered through presentations introducing fundamental knowledge of English grammar and skills. Strategies Interactive discussions: promotes active learning and thinking by engaging students in discussions. Instructors can facilitate class discussions on specific topics, encouraging students to share their insights, ask questions, and explore different perspectives. 9. Formative Assessments and Feedback: Regular formative assessments, such as quizzes and homework that help instructors gauge students' understanding and progress. Providing timely feedback allows students to identify areas for improvement and reinforces their learning. Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا Structured SWL (h/w) Structured SWL (h/sem) 1,75 33 الحمل الدراسي المنتظم للطالب خلال الفصل الحمل الدراسي المنتظم للطالب أسبوعيا Unstructured SWL (h/w) ١,٧٦ 17 Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب أسبوعيا

م للطالب خلال الفصل	ل الدراسي غير المنتظ	الحم										
Total SWL	(h/sem)		50									
ب خلال الفصل	ل الدراسي الكلي للطالد	الحما	50									
Module Evaluation تقييم المادة الدراسية												
As		Time/Ni	umbe	Weight (Marks)	Week Due	Relevant Learnin g Outcom e						
	Quizzes	2		10% (10)	3,8	1,2						
Formative assessment	Homework assignments	9		27% (27)	2,3,4,5,6,7,8,9,11,12,13	1,2						
	Discussions & Attendance	1		3% (3)	1,2,3,4,5,6,7,8,9,11,12,13,14,1	1,2						
Summativ e	Midterm Exam	1 h	1 hr		10							
assessment	Final Exam	3 hr		50% (50)								
Total assess	sment			100% (100 Marks)								
		Deliv	very Pl	an (Weekly	Syllabus)							
			لنظري	ج الاسبوعي ا	المنها							
Week	Material Covered											
1	Unit 1: A world	of differer	nce									
	Present, past, pres	sent perfec	t tense	s								
W CCR 1	Auxiliary verbs											
	Questions and negatives Short answers											
	Sounding polite											
	Unite 2: The wor	king week										
XX 1 0	Present and contin	nuous tens	ses									
,	State verbs											
	Passive How often											
	Unit 3: Good tin	ne, bed										
W CCR 3	Past tenses											
Week 4	Unit 4: Getting i	t right										
]	Modal and related											
Week 5	.Unit 5: Our Cha	nging wor	ld									

Future possibilities Unit 6: What matters to me Information questions Unit 7: Passions and fashions Present perfect Passive Adverbs Time expressions Unit 8: No fear Verb patterns The infinitive The reduced infinitive Unit 9: It depends how you look at it Conditionals Might have done/ could have done Should have done Week 10 Week 11 Week 11 Week 12 Unit 10: All things high tech Noun phrases Perfective pronouns and each other Unit 11: Seeing is believing Present and past Modals of probability Looks like / looks Expressing disbelief Unit 12: Telling it how it is Reported thoughts Reported thoughts Reported duestions Week 13 Reported thoughts Reported questions Week 14 Week 15 Week 16 Preparatory week before the final Exam Freat Lizand John Soar (2012) New Headway Intermediate Press. ISBN-13: 978-0194770200 No Recommended Texts Websites Weeksites		Future for	rms					
Week 6 Unit 6: What matters to me Information questions Unit 7: Passions and fashions Present perfect Passive Adverbs Time expressions Week 7 Adverbs Time expressions Unit 8: No fear Verb patterns The infinitive The infinitive Unit 9: It depends how you look at it Conditionals Might have done Could have done Should have done Week 8 Midterm Exam Unit 10: All things high tech Noun phrases Possessives Reflexive pronouns and each other 11 Week 12 Expressing disbelief Unit 11: Seeing is believing Present and past Modals of probability Looks like / looks Expressing disbelief Week 13 Reported thoughts Reported Questions Unit 12: Telling it how it is Reported questions Week 14 Week 15 Extening and Reading Listening and Reading Week 16 Preparatory week before the final Exam Available in the Library? Required Texts Studen's Book Fourth Edition. OXFORD University Press. ISBN-13: 978-0194770200 No Recommended Texts No								
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Week 8 Time expressions Unit 8: No fear Verb patterns The infinitive The reduced infinitive The reduced infinitive Unit 9: It depends how you look at it Conditionals Might have done/ could have done Should have done Week 10 Week 11 Week 11 Week 12 Unit 10: All things high tech Noun phrases Reflexive pronouns and each other Unit 11: Seeing is believing Present and past Modals of probability Looks like / looks Expressing disbelief Unit 12: Telling it how it is Reported thoughts Reported questions Week 13 Reported thoughts Reported questions Week 14 Week 15 Week 16 Preparatory week before the final Exam Text Listening and Reading Text Liza and John Soars (2012) New Headway Intermediate Student's Book Fourth Edition. OXFORD University Press. ISBN-13: 978-0194770200 Recommended Texts No		Unit 7: P	Passions and fashions					
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Noun phrases Possessives Reflexive pronouns and each other	10							
Noun pirases Possessives Reflexive pronouns and each other	XV1-							
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Looks like / looks Expressing disbelief Week	Week		•					
Expressing disbelief Week Reported Speech Reported thoughts Reported questions Week Listening and Reading Week Listening and Reading Freparatory week before the final Exam Learning and Teaching Resources	12		•					
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Week 15 Listening and Reading Week 16 Preparatory week before the final Exam Learning and Teaching Resources Available in the Library? Required Texts Liz and John Soars (2012) New Headway Intermediate Student's Book Fourth Edition. OXFORD University Press. ISBN-13: 978-0194770200 No Recommended Texts No	Week	Listening	and Reading					
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Required Texts Liz and John Soars (2012) New Headway Intermediate Student's Book Fourth Edition. OXFORD University Press. ISBN-13: 978-0194770200 Recommended Texts No			Toyt	Available in the				
Required Texts Student's Book Fourth Edition. OXFORD University Press. ISBN-13: 978-0194770200 Recommended Texts No			TCAL	Library?				
Press. ISBN-13 : 978-0194770200 Recommended Texts No								
Recommended No Texts	Required Texts			No				
Texts	Pagamma	ndad	Press. ISBN-13: 978-01947/0200					
				No				
Websites								
	Websites							

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

Module Info	Module Information						
معلومات المادة الدراسية							
Module Title	Architectural design 4			Mo	Module Delivery		
Module Type	Core			Theory			
Module Code	ARC321				☐ Lab		
ECTS Credits	12				Tutorial		
SWL (hr/sem)	۳.,				Practical Seminar		
Module Lev	el	UGII	Semester	of De	livery	4	
Administerin Department	ng	ARC	College	COE			
Module Leader	Raed salin	n ahmed	e-mail	Raeedalnumman@uomosul.edu.iq		n@uomosul.edu.iq	
Module Lead Acad. Title	der's	Assistant Professor		Module Leader's Qualification		Ms.c.	
Module Tutor	Dr. husser	ı salman	e-mail	husse	en@uomos	ul.edu.iq	
Peer Reviewer Name		Ashraf ibahim Talaat Ibrahim Mayssa mofeq Aseel Ibrahim Eman	e-mail	E-ma	ail		
Approval Date /06/2023			Version Number		1.0		
Relation wit	h other Moo	dules					
دراسية الأخرى	العلاقة مع المواد الدراسية الأخرى						

Prerequisite module	Architectural design 3	Semester						
Co-requisites module	None	Semester						
Module Aims, Learning Outcomes and Indicative Contents								
أهداف المادة الدراسية ونتانج التعلم والمحتويات الإرشادية								
Module Aims أهداف المادة الدراسية	To introduce concepts of function, and structure in the design process through projects and to learn how to apply design methodology for complicated projects							
	On successful completion of t	his course, stu	udents will be able to:					
	Ability to gather, and comparatively evaluate relevatesign processes. ii	-						
Module Learning Outcomes	2. Demonstrate an under and integrate and apply that k processes. iii	· .	principles and practices hin architectural design					
مخرجات التعلم للمادة الدراسية	3. Ability to develop imaginative and creative thinking. ii							
	4. An understanding of professional, legal, and social issues and responsibilities.							
	d global impact of att, and society. Ii							
	1. Introduction to the P	roject:						
	2. Overview of the project scope, objectives, and stakeholders involved							
	3. Understanding the importance of integrating educational, cultural, and commercial facilities in a mixed-use development							
	4. Site Analysis and Planning:							
Indicative Contents	5. Conducting a site analysis considering location, accessibility, and surrounding context							
المحتويات الإرشادية	6. Urban planning princintegrating the school, culture	_	planning strategies for hopping center					
	7. Functional Requirem	ents and Space	ce Planning:					
	8. Understanding the specific requirements of a school, such as classrooms, laboratories, administrative areas, and outdoor spaces							
	9. Designing functional including exhibition areas, pe multipurpose rooms	_						

10. Planning retail spaces, circulation areas, and amenities for the shopping center

Architectural Design Principles:

- 11. Exploring design principles such as scale, proportion, rhythm, and harmony
- 12. Incorporating architectural features and elements that reflect the purpose and identity of each facility
- 13. Sustainable Design and Energy Efficiency:
- 14. Integrating sustainable design principles and strategies, such as passive design techniques, renewable energy sources, and efficient building systems

These indicative contents provide a comprehensive overview of the topics that can be covered when designing a general project that includes a school, culture center, and shopping center. The specific contents may vary based on the project's requirements and the intended learning outcomes.

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies

The architectural design learning strategy focuses on empowering students to develop the skills and knowledge necessary for creative design in architectural projects. This strategy includes architectural dictionaries, case study analysis, interactive workshops, and handson training. Students are guided to use digital design tools and architectural software to create three-dimensional models and visualize projects. Communication and collaboration among students are enhanced through design critique sessions and teamwork in group projects. This strategy provides students with opportunities to develop their technical, artistic, and critical thinking skills while achieving a balance between theory and practical application in the field of architectural design.

Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem)		Structured SWL (h/w)	
الحمل الدراسي المنتظم للطالب خلال الفصل	154	الحمل الدراسي المنتظم للطالب أسبوعيا	10
Unstructured SWL (h/sem)		Unstructured SWL (h/w)	
الحمل الدراسي غير المنتظم للطالب خلال الفصل	146	الحمل الدراسي غير المنتظم للطالب	9.7
Total SWL (h/sem)	300		

الحمل الدراسي الكلي للطالب خلال الفصل الفصل								
Module Evaluation تقييم المادة الدراسية								
As	As Time/Number Weight Week Relevant Learning Outcome							
		Report	2	10%	2, 3,	LO # 1, 2,3,4		
		Weekly assessment	13	10%	1-14			
Formative		Concept submission	1	5%	5	LO #3,4,5		
assessment		Mid-term submission	1	5%	8			
		Pre-final submission	1	15%	14			
		Final submission	1	25%	16			
Summative		Midterm Exam (Day sketch 1)	3 hr.	10%		LO #1-5		
assessment		Final Exam (Day sketch 2)	4 hr.	20%		LO #1-5		
Total assessi	ment			100% (100 Marks)				
Delivery Pla	ın (Week	ly Syllabus)		·				
سبوعي النظري								
Week		al Covered						
Week 1	Introdu	ction (project 1	.)					
Week 2	Introdu	Introduction (project 2)						
Week 3	Introduction (project 3)							
Week 4	Analys	Analysis of similar examples						
Week 5	Analysis of similar examples							
Week 6	Main components of project							
Week 7	Main components of project							
Week 8	Design concept and primary idea formulation							

Week 9							
Week 10							
Week 11							
Week 12							
Week 13							
Week 14							
Week 15							
Week 16							
Delivery Pla	ı (Weekly desig	n studio)					
ستوديو التصميم	لمنهاج الاسبوعي لأ	1					
Week	Material Cov	ered					
Week 1	Site analysis						
Week 2	Design conce	ept and primary ide	a formulation				
Week 3	Feedback						
Week 4	Feedback						
Week 5	First submiss	ion					
Week 6	Details of pla	uns					
Week 7	Feedback						
Week 8	Feedback						
Week 9	Day sketch						
Week 10	Elevations ar	nd visual aspect					
Week 11	Feedback						
Week 12	Feedback						
Week 13	Pre- Final submission						
Week14	Feedback						
Week 15	Final submission						
Learning and Teaching Resources							
مصادر التعلم والتدريس							
	Те	ext		Available in the Library?			
L							

1. Joseph De Chiara, Julius .5	
Panero, Time-Saver Standards for	No
Housing and Residential Development	
2. Polservice , 1982 Housing Technical Standards & Codes of Practice	No
	Panero, Time-Saver Standards for Housing and Residential Development 2. Polservice , 1982 Housing Technical

Grading Scheme

مخطط الدرجات

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