وزارة التعليم العالي والبحث العلمي جهاز الإشراف والتقويم العلمي

دائرة ضمان الجودة والاعتماد الأكاديمي قسم الاعتماد

دليل وصف البرنامج الأكاديمي والمقرر

المقدمة:

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

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

ويتضمن هذا الدليل بنسخته الثانية وصفاً للبرنامج الأكاديمي بعد تحديث مفردات وفقرات الدليل السابق في ضوء مستجدات وتطورات النظام التعليمي في العراق والذي تضمن وصف البرنامج الأكاديمي بشكلها التقليدي نظام (سنوي، فصلي) فضلاً عن اعتماد وصف البرنامج الأكاديمي المعمم بموجب كتاب دائرة الدراسات ت م٢٩٠٦/٣ في ٢٠٢٣/٥/٣ فيما يخص البرامج التي تعتمد مسار بولونيا أساساً لعملها.

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

مفاهيم ومصطلحات:

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

وصف المقرر: يوفر إيجازاً مقتضياً لأهم خصائص المقرر ومخرجات التعلم المتوقعة من الطالب تحقيقها مبرهناً عما إذا كان قد حقق الاستفادة القصوى من فرص التعلم المتاحة. ويكون مشتق من وصف البرنامج.

رؤية البرنامج: صورة طموحة لمستقبل البرنامج الأكاديمي ليكون برنامجاً متطوراً وملهماً ومحفزاً وواقعياً وقابلاً للتطبيق.

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

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

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

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

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

نموذج وصف البرنامج الأكاديمي

اسم الجامعة: جامعة ..واسط.....

الكلية/ المعهد: كلية ...الهندسة.....

القسم العلمي: قسم .....هندسة العمارة

اسم البرنامج الأكاديمي او المهني: بكالوريوس هندسة العمارة

اسم الشهادة النهائية: بكالوريوس في .هندسة العمارة

النظام الدراسي: بولونيا

تاريخ اعداد الوصف: 2024/9/3

تاريخ ملء الملف: 2024/9/3

التوقيع :

اسم رئيس القسم: أ.م.د ربيع جميل خالد

التاريخ : 2024/9/5

التوقيع :

اسم المعاون العلمي: أ.م.د حسين رزاق صباح

التاريخ : 2024/9/5

دقـــق الملف من قبل

شعبة ضمان الجودة والأداء الجامعي

اسم مدير شعبة ضمان الجودة والأداء الجامعي: ا.م.د حيدر ماجد حسن

التاريخ 2024/9/5

التوقيع

مصادقة السيد العميد

أ.د علي ناصرحلو

١ .رؤية البرنامج
رؤيتنا في قسم هندسة العمارة في واسط هي أن نكون رواداً في التعليم المعماري، من خلال تعزيز ممارسات التصميم المستدام والمجتمعي التي تثري البيئة المبنية وتُحسّن جودة الحياة للجميع. نسعى إلى إلهام طلابنا للتفكير الإبداعي والناقد والمسؤول، وتمكينهم ليصبحوا قادة في مجال العمارة. ومع التركيز على التميز في التعليم والبحث والمشاركة المجتمعية، نهدف إلى تشكيل مستقبل العمارة وخلق عالم أفضل من خلال التصميم.

2 .رسالة البرنامج
في قسم هندسة العمارة بجامعة واسط، نقدّم تعليماً وتدريباً بأعلى مستويات الجودة في مجال العمارة. هدفنا هو تزويد طلابنا والمهنيين بالمهارات والمعارف التي يحتاجونها لتصميم مبانٍ وظيفية وآمنة وجذّابة من الناحية الجمالية، تكون في الوقت ذاته مستدامة وتعكس احتياجات المجتمع المحلي. نحن نؤمن بأن العمارة تمتلك القدرة على تشكيل العالم الذي نعيش فيه، ونحن ملتزمون بتنمية حب التصميم والإحساس بالمسؤولية تجاه البيئة والصحة العامة لدى جميع طلابنا. انضموا إلينا بينما نسعى لخلق بيئة مبنية أفضل للجميع.

3. **أهداف البرنامج**
١ .توفير تعليم وتدريب شامل في مجال العمارة للطلبة والمهنيين. ٢ .تعزيز ممارسات التصميم المستدام ونشر الوعي بتأثيرها. ٣ .الانخراط مع المجتمع المحلي لعكس احتياجاته في عملية التصميم. ٤ .ممارسة النزاهة المهنية والكفاءة في أداء الواجبات والمسؤوليات المتعلقة ببناء المجتمع من خلال المشاريع الهندسية . **(PEO 1)** ٥ .ممارسة القيادة الإدارية الفاعلة مع إيلاء أهمية كبيرة لمهارات التواصل الاجتماعي الفعّال، والالتزام بالمسؤولية الأخلاقية العالية في التعامل مع مختلف فئات الناس ضمن التخصصات المتعددة للأعمال الهندسية، وفقاً لمبادئ التنمية المستدامة . **(PEO 2)** ٦ .الالتزام بمبادئ الحوكمة الرشيدة لما فيه مصلحة المجتمع كمهندس معماري، وإظهار احترام عالٍ للمفهوم الدستوري الذي ينص على أن المنصب العام أمانة عامة، حيث تُعتبر المساءلة قيمة أساسية ومصانة في خدمة المجتمع**(PEO 3)** . ٧ .إظهار السعي نحو التطوير المهني من خلال التعليم المستمر، والتعلم مدى الحياة، واكتساب الخبرات، ومواكبة الاتجاهات والابتكارات الهندسية الجديدة، والانضمام إلى الجمعيات المهنية المعتمدة**(PEO 4)** . ٨ .توفير مهارات واسعة وعملية للقيام بالتحقيقات التقنية وتصميم القرارات ضمن القيود الواقعية مثل الاقتصادية والبيئية والاجتماعية والسلامة والاستدامة**(PEO 5)** .

4 .**الاعتماد البرامجي**
تتبع جامعة واسط **عملية بولونيا** بنظام الساعات المعتمدة الأوروبي .**(ECTS)**يبلغ العدد الكلي للوحدات الدراسية في البرنامج الأكاديمي 300 وحدةECTS ، بمعدل 30 وحدة ECTS لكل فصل دراسي. تعادل كل وحدة ECTS ما مقداره 25 ساعة عمل للطالب، وتشمل العمل المنظم وغير المنظم.

5 .**المؤثرات الخارجية الأخرى**
هل هناك جهات راعية للبرنامج

6 .هيكلية البرنامج				
هيكل البرنامج	عدد المقررات	وحدة دراسية	النسبة المئوية	ملاحظات *
متطلبات المؤسسة	**8**	**18**	**30%**	
متطلبات الكلية	**2**	**5**	**10%**	
متطلبات القسم	**10**	**300**	**60%**	
التدريب الصيفي	-	-	-	
اخرى	-	-	-	

- ممكن ان تتضمن الملاحظات فيما اذا كان المقرر أساسي او اختياري

7. وصف البرنامج				
المستوى/السنة	رمز المقرر او المساق	اسم المقرر او المساق	الساعات المعتمدة	
2024-2025			**نظري**	**عملي**
Level UGI Semester one	**WARC01**	**مبادئ التصميم المعماري I**	**2**	**6**
Level UGI Semester one	**WARC02**	**الرسم المعماري**	**2**	**4**
Level UGI Semester one	**WARC03**	**مبادئ الفن والعمارة**	**4**	\
Level UGI Semester one	**WARS01**	**الفيزياء**	**2**	\
Level UGI Semester one	**COE01**	**الرياضيات**	**3**	\
Level UGI Semester one	**WU01**	**اللغة العربية**	**2**	\
Level UGI Semester one	**WU03**	**أساسيات علم الحاسوب**	**1**	**2**
Level UGI Semester TWO	**WARC04**	**مبادئ التصميم المعماري II**	**2**	**6**
Level UGI Semester TWO	**WARC05**	**مهارات الابداع والرسم I**	**1**	**2**
Level UGI Semester TWO	**WARC06**	**تطبيقات الحاسوب I**	**2**	**4**
Level UGI Semester TWO	**WARC07**	**مواد بناء**	**4**	\
Level UGI Semester TWO	**WU02**	**اللغة الإنكليزية الاكاديمية I**	**2**	\
Level UGI Semester TWO	**WU04**	**حقوق الانسان والديمقراطية**	**2**	\
Level UGII Semester THree	**WARC08**	**التصميم المعماري I**	**2**	**6**
Level UGII Semester THree	**WARC09**	**الاظهار المعماري**	**1**	**3**
Level UGII Semester THree	**WARB01**	**تركيب المباني I**	**1**	**2**

Level UGII Semester THree	WARC10	II تطبيقات الحاسوب	1	2
Level UGII Semester THree	WARC11	تاريخ العمارة العراقية	2	\
Level UGII Semester THree	WARB02	المنطق ومنهجية التصميم	2	\
Level UGII Semester THree	WU05	جرائم حزب البعث	2	\
Level UGII Semester Four	WARC12	II التصميم المعماري	2	6
Level UGII Semester Four	WARC13	II مهارات الإبداع والرسم	1	2
Level UGII Semester Four	WARS02	I الانشاءات	3	\
Level UGII Semester Four	WARS03	I رسومات تفصيلية (BIM)	1	2
Level UGII Semester Four	WARS04	هندسة المساحة	1	1
Level UGII Semester Four	WU23	II اللغة الإنكليزية الاكاديمية	2	\
Level UGII Semester Four	WU22	II اللغة العربية	2	\
Level UGII Semester Four	WU21	الحاسوب 2	1	2

8.مخرجات التعلم المتوقعة للبرنامج

المحور	المخرجات
المعرفة	1. امتلاك معرفة متقدمة بالعلوم الأساسية)رياضيات، فيزياء، علوم المواد (وربطها بالتطبيقات المعمارية) 2. الإلمام بتاريخ العمارة والفنون المرتبطة بها وفهم أثرها على الهوية المحلية والعالمية 3. استيعاب مبادئ وأساليب التصميم المعماري وتطبيقها في السياقات البيئية والاجتماعية والاقتصادية والثقافية . 4. معرفة مفاهيم الصحة والسلامة والرفاهية العامة، وربطها بالحلولالتصميمية. 5. إدراك التشريعات المهنية والأطر القانونية المنظمة للممارسة المعمارية في التصميم والتحليل 6. الإلمام بالتقنيات الرقمية والبرمجيات الحديثة(المحاكاة، التصميم الرقمي ،BIM)
المهارات	1- صياغة وتحليل المشكلات المعمارية المعقدة باستخدام مناهج علمية وإبداعية 2- تصميم مبانٍ وحلول معمارية تستجيب للاحتياجات الوظيفية والجمالية والبيئية ضمن قيود واقعية(،اقتصادية، اجتماعية ثقافية) 2- استخدام الأدوات الرقمية والتقنيات الحديثة في التحليل، التصميم، وإدارة المشاريع 3- إجراء التجارب والبحوث وتحليل البيانات واستخلاص الاستنتاجات بموضوعية 4- التواصل الفعال مع المجتمع الأكاديمي والجمهور من خلال العروض الشفوية والتقارير والوسائط البصرية 5- العمل بفاعلية ضمن فرق متعددة التخصصات والثقافات، وتولي القيادة عند الحاجة 6- مواكبة التطورات العالمية في العمارة عبر التعلم المستمر واستراتيجيات التعلم المبتكرة
القيم	1- الالتزام بالأمانة العلمية والمسؤولية الأخلاقية في الممارسة المعمارية 2- القدرة على تحديد الأولويات المهنية واتخاذ قرارات موضوعية تراعي الأبعاد الاقتصادية والبيئية والمجتمعية والثقافية 3- العمل بفاعلية واحترام ضمن فرق متعددة التخصصات والثقافات 4- تحمل المسؤولية المجتمعية وتعزيز مبادئ الاستدامة والتنمية المستدامة في المشاريع 5- احترام التنوع الثقافي والإنساني مع الحفاظ على الهوية المحلية والانفتاح على المعايير العالمية 6- تطبيق مبادئ الحكم الرشيد، الشفافية والمساءلة في الأداء الهندسي

9.استراتيجيات التعليم والتعلم
١ .**التعلم القائم على الاستوديو** –تُستخدم استوديوهات التصميم المعماري وورش العمل لدمج الإبداع والنظرية والممارسة. ٢ .**التعلم التجريبي والتطبيقي** –تكمل المشاريع الواقعية، وورش النماذج، والزيارات الميدانية، والأعمال التجريبية المعرفة النظرية. ٣ .**التعاون متعدد التخصصات** –يتعاون الطلاب مع زملائهم من تخصصات الهندسة والتصميم الأخرى لمحاكاة الممارسة المهنية. ٤ .**التعلم المعزز بالتكنولوجيا** –تُدمج الأدوات الرقمية وتطبيقات الـ BIMوالأساليب الحاسوبية لتعزيز الكفاءة التقنية. ٥ .**التعلم السياقي والأخلاقي** –يتم التأكيد على التراث الثقافي والاستدامة والأخلاقيات المهنية لتطوير مهندسين معماريين مسؤولين. ٦ .**البحث والتقصي النقدي** –يشارك الطلاب في تاريخ العمارة ونظرياتها ومشاريع الأطروحات لتعزيز التفكير النقدي ومهارات البحث.

10. طرائق التقييم
١ .**تقييم المقررات الدراسية** –من خلال الواجبات، والتقارير، والمقالات، والمشاريع القصيرة لقياس فهم النظرية والتطبيقات. ٢ .**نقد استوديو التصميم** –التقييم المستمر لمشاريع التصميم عبر اللجان والعروض التقديمية ومراجعات الملف الأكاديمي (Portfolio). ٣ .**الامتحانات** –امتحانات تحريرية في منتصف الفصل ونهايته لتقييم المعرفة النظرية والتقنية. ٤ .**العمل التطبيقي والمختبري** –تقييم الورش والتجارب وصناعة النماذج لاختبار المهارات التطبيقية. ٥ .**المشاريع الجماعية والعمل ضمن الفريق** –تقييم المشاريع التعاونية لقياس العمل الجماعي والقيادة والتكامل متعدد التخصصات. ٦ .**العروض الشفوية والمناقشات – (Viva)** عروض فردية أو جماعية لقياس مهارات التواصل والتفكير النقدي. ٧ .**تقييم التدريب الميداني والمهني** –من خلال خبرة الممارسة العملية وتغذية راجعة من المشرفين. ٨ .**مشروع التخرج/الأطروحة النهائية** –تقييم شامل للبحث، والقدرة التصميمية، والابتكار، والاستعداد المهني.

11. الهيئة التدريسية

أعضاء هيئة التدريس

الرتبة العلمية	التخصص		المهارات /المتطلبات (ان وجدت)الخاصة		اعداد الهيئة التدريسية	
	عام	خاص			ملاك	محاضر
الأستاذ الدكتور صبيح لفته فرحان	**التخطيط الحضري**	**التصميم الحضري**			*	
الأستاذ الدكتور احسان عباس	**التخطيط الحضري**	**التصميم الحضري**			*	
الأستاذ المساعد الدكتور حسام ساجت	**هندسة معمارية**	**التصميم الحضري**			*	
الأستاذ المساعد الدكتور حيدر ماجد	**التخطيط الحضري**	**التصميم الحضري**			*	

الأستاذ المساعد الدكتور ربيع جميل خالد	هندسة عمارة	التصميم المعماري			*	
الأستاذ المساعد الدكتور عادل مهدي جبار	هندسة مدنية	الانشاءات			*	
الأستاذ المساعد الدكتور هالة عبد العظيم	هندسة الاتصالات والمعلومات				*	
المدرس الدكتور زهراء حسن	هندسة البيئة				*	
المدرس الدكتور الا صبيح	هندسة المواد				*	
المدرس المساعد زهراء عبد السلام	ماجستير هندسة عمارة	التصميم الحضري			*	
المدرس المساعد سارة ماجد	ماجستير هندسة عمارة	التصميم المعماري			*	
المدرس المساعد أيام شياع	ماجستير هندسة عمارة	التصميم المعماري			*	
المدرس المساعد وسن جواد	ماجستير هندسة عمارة	التصميم المعماري			*	
المدرس المساعد احمد راضي	ماجستير هندسة عمارة	التصميم المعماري			*	
المدرس المساعد مثنى محمود	ماجستير هندسة عمارة	التصميم المعماري			*	
المدرس المساعد حسام كريم	الهندسة المدنية				*	
المدرس المساعد زينب جابر	هندسة المياه				*	
المدرس الدكتور وسام حافظ	هندسة الانشائية				*	

التطوير المهني
توجيه أعضاء هيئة التدريس الجدد
١ .**التوجيه والاندماج** • توفير برامج توجيه منظمة لأعضاء الهيئة التدريسية الجدد، تغطي المنهاج الدراسي، واستراتيجيات التدريس، وطرق التقييم، والسياسات المؤسسية. • إقران أعضاء الهيئة التدريسية الجدد بأساتذة ذوي خبرة ليرشدوهم خلال السنة الأولى. ٢ .**دعم التدريس** • تشجيع جلسات ملاحظة الصفوف الدراسية وتقديم التغذية الراجعة بالتعاون مع الأساتذة الكبار. • مشاركة أفضل الممارسات في طرق التدريس، وتفاعل الطلبة، واستخدام التكنولوجيا في التعليم. ٣ .**البحث العلمي** • دعم أعضاء الهيئة التدريسية الجدد في تطوير أجندات بحثية تتماشى مع أولويات القسم. • مساعدة المرشدين لهم في استراتيجيات النشر، وكتابة طلبات المنح، وبناء الشبكات في المجتمعات الأكاديمية.
التطوير المهني لاعضاء هيئة التدريس
الأخلاقيات والمسؤوليات المهنية • التأكيد على النزاهة الأكاديمية، والأخلاقيات المهنية، والمسؤوليات تجاه الطلبة والزملاء. • تقديم القدوة في التعامل مع التحديات في التدريس، والإرشاد، والخدمة الجامعية.

تطوير المسار المهني والقيادة

- إرشاد أعضاء الهيئة التدريسية الجدد في التخطيط المهني طويل الأمد، بما في ذلك مسارات الترقية والتثبيت الأكاديمي.
- تقديم ورش عمل حول مهارات القيادة، وإدارة المشاريع، والمشاركة المجتمعية.

12. معيار القبول

وضع الأنظمة المتعلقة بالالتحاق بالكلية سواء مركزي او اخرى

13. اهم مصادر المعلومات عن البرنامج

١ .**منشورات الجامعة** –الكتالوجات الأكاديمية الرسمية، ووثائق مواصفات البرامج، وأدلة الطلبة الصادرة عن جامعة واسط / كلية الهندسة.
٢ .**الموارد القسمية** –أدلة المناهج، والمفردات الدراسية للمقررات، ومواد التوجيه المقدمة من قسم هندسة العمارة.
٣ .**إرشاد الهيئة التدريسية** –المعلومات والنصائح المقدمة مباشرة من منسقي البرامج، وأعضاء الهيئة التدريسية، والمرشدين الأكاديميين.
٤ .**المنصات المؤسسية** –موقع الجامعة، ومنصات التعليم الإلكتروني، والمستودعات الرقمية التي تحتوي على السياسات والإعلانات والموارد التعليمية.
٥ .**المراجع المهنية والخارجية** –الأكواد والمعايير المعمارية، والمنظمات المهنية التي تكمل التعلم الأكاديمي.

14. خطة تطوير البرنامج

١ .**مراجعة المنهاج وتطويره**
- التقييم المنتظم للمقررات الدراسية لضمان توافقها مع المعايير الدولية واحتياجات سوق العمل.
- دمج التقنيات الحديثة مثل نمذجة معلومات البناء(BIM) ، والتصميم الرقمي، وممارسات الاستدامة.

٢ .**تطوير الهيئة التدريسية**
- التدريب المستمر، ودعم البحث العلمي، والإرشاد لأعضاء الهيئة التدريسية الجدد.
- تشجيع التعاون الدولي والمشاركة في المؤتمرات الأكاديمية.

٣ .**البنية التحتية وموارد التعلم**
- تحديث المختبرات والاستوديوهات والمنصات الرقمية لتعزيز التعلم التطبيقي.
- توسيع الوصول إلى قواعد البيانات الإلكترونية، والمكتبات، والبرامج المعمارية.

٤ .**التواصل مع الصناعة والمجتمع**
- تعزيز الشراكات مع المكاتب المعمارية، ووكالات التخطيط، والمؤسسات الحكومية.
- توسيع فرص التدريب الميداني والمهني للطلبة.

٥ .**ضمان الجودة والاعتماد الأكاديمي**
- المراقبة المستمرة لمخرجات التعلم، وطرق التقييم، وتغذية راجعة الخريجين.
- التحضير لعمليات الاعتماد الأكاديمي الوطنية والدولية.

٦ .**تطوير البحث والابتكار**
- دعم بحوث الطلبة وأعضاء الهيئة التدريسية في مجالات العمارة المستدامة، والتصميم الحضري، والابتكار الرقمي.

مخطط مهارات البرنامج															
				مخرجات التعلم المطلوبة من البرنامج											
المستوى/السنة	رمز المقرر	اسم المقرر	إساسي ام اختياري	المعرفة				المهارات				القيم			
				1أ	2أ	3ا	4أ	1 ب	2 ب	3 ب	4 ب	1ج	2ج	3ج	4ج
Level UGI Semester one	WARC01	Basic of Architectural Design I	C	*	*	*	*	*	*	*	*		*		*
Level UGI Semester one	WARC02	Architectural Drawing	C		*		*	*	*	*	*		*	*	
Level UGI Semester one	WARC03	Basic of Art & Architecture	C	*	*	*	*	*	*	*	*	*		*	*
Level UGI Semester one	WARS01	Physics	S	*		*	*			*	*	*			*
Level UGI Semester one	COE01	Mathematics	C	*	*	*	*			*	*	*	*	*	*
Level UGI Semester one	WU01	Arabic Language	B	*	*	*	*	*	*	*	*	*	*		*
Level UGI Semester one	WU03	Fundamentals of Computer Science	B	*	*	*				*	*	*	*		

*	*	*	*	*	*	*	*	*	*	*	*	C	Basic of Architectural Design II	WARC04	Level UGI Semester TWO
		*	*	*	*	*	*		*			C	Creative& Drawing Skills I	WARC05	Level UGI Semester TWO
*	*	*	*			*	*	*	*	*	*	C	Computer Applications I	WARC06	Level UGI Semester TWO
*	*	*	*	*	*	*	*	*	*	*	*	C	Building Materials	WARC07	Level UGI Semester TWO
*	*	*	*	*	*			*	*	*	*	B	Academic English I	WU02	Level UGI Semester TWO
*	*	*	*			*	*	*	*			B	Human Rights and Democracy	WU04	Level UGI Semester TWO
*	*	*	*	*	*	*	*	*	*	*	*	C	Architectural Design I	WARC08	Level UGII Semester THree
*	*	*	*	*	*	*	*	*	*	*	*	C	Architectural Graphics	WARC09	Level UGII Semester THree
*	*	*	*	*	*	*	*	*	*			B	Building Construction I	WARB01	Level UGII Semester THree
*	*	*	*	*	*	*			*	*	*	C	Computer ApplicationsII	WARC10	Level UGII Semester THree

*	*	*	*	*	*	*	*	*	*	*	*	C	History of Iraqi Architecture	WARC11	Level UGII Semester THree
*	*	*			*	*	*	*	*	*	*	B	Logic and Design Methodology	WARB02	Level UGII Semester THree
*		*	*	*	*	*	*			*	*	B	Baath Party crimes	WU05	Level UGII Semester THree
*	*	*	*	*	*	*	*	*	*	*	*	C	Architectural Design II	WARC12	Level UGII Semester Four
		*	*	*	*	*	*	*	*	*	*	C	Creative& Drawing Skills II	WARC13	Level UGII Semester Four
*	*	*	*	*	*	*				*	*	S	Structure I	WARS02	Level UGII Semester Four
*	*	*	*	*	*	*	*	*	*	*	*	S	BIM-Building Construction I	WARS03	Level UGII Semester Four
*	*				*	*	*	*	*	*	*	S	Surveying Engineering	WARS04	Level UGII Semester Four
*	*	*	*	*	*	*	*	*	*			B	Academic English Language II	WU23	Level UGII Semester Four

*	*	*	*	*	*	*	*	*	*	*	*	B	Arabic Language II	WU22	Level UGII Semester Four
*	*	*	*	*	*	*	*	*			*	B	Computer2	WU21	Level UGII Semester Four

- يرجى وضع إشارة في المربعات المقابلة لمخرجات التعلم الفردية من البرنامج الخاضعة للتقييم

نموذج وصف المقرر

١. اسم المقرر
٢. رمز المقرر
٣. الفصل / السنة
٤. تاريخ إعداد هذا الوصف
5. أشكال الحضور المتاحة
6. عدد الساعات الدراسية (الكلي)/ عدد الوحدات (الكلي)
7. اسم مسؤول المقرر الدراسي (اذا اكثر من اسم يذكر)
الاسم: الآيميل :
٨. اهداف المقرر

اهداف المادة الدراسية	• ..... • ..... • .....

٩. استراتيجيات التعليم والتعلم

الاستراتيجية	

١٠. بنية المقرر

الأسبوع	الساعات	مخرجات التعلم المطلوبة	اسم الوحدة او الموضوع	طريقة التعلم	طريقة التقييم

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Basic of Architectural Design I**			**Module Delivery**	
Module Type	**Core**			☒ **Theory** ☐ **Lecture** ☐ **Lab** ☐ **Tutorial** ☒ **Practical** ☐ **Seminar**	
Module Code	**WARC01**				
ECTS Credits	**9**				
SWL (hr/sem)	**225**				
Module Level		UGI	**Semester of Delivery**		One
Administering Department		WAR	**College**	College of Engineering	
Module Leader	Husam Sachit Senah		**e-mail**	Email:hsachit@uowasit.edu.iq	
Module Leader's Acad. Title		Assist. Prof.	**Module Leader's Qualification**		Phd. in Architecture Engineering.
Module Tutor	Sarah Majid Musheer		**e-mail**	Email: gl309@uowasit.edu.iq	
Peer Reviewer Name			**e-mail**		
Scientific Committee Approval Date		20\6\2023	**Version Number**	1.0	

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module		**Semester**	
Co-requisites module	WARC04	**Semester**	Two
Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية			
Module Objectives أهداف المادة الدراسية	1) **Understand and apply design elements and principles:** Students will gain a comprehensive understanding of design elements such as line, shape, color, and texture, as well as design principles such as balance, proportion, rhythm, and emphasis. They will apply these concepts to create visually compelling two-dimensional and three-dimensional abstract art compositions. 2) **Analyze architectural plans and mass models:** Students will learn how to analyze architectural plans and mass models to gain insights into spatial relationships, scale, and composition. They will develop the ability to identify and interpret design choices made by architects, which will inform their own artistic decisions in creating abstract compositions. 3) **Experiment with color and texture:** Students will progress from working with monochromatic gradients to incorporating colors and textures in their art compositions. They will explore the effects of different color combinations and texture applications, learning how to use these elements to enhance the visual impact and communicate specific ideas or moods. 4) **Express ideas and concepts through abstraction:** Students will go beyond creating abstract compositions and explore the abstraction of forms, stories, metaphors, or poems. They will learn how to convey complex ideas or narratives through the arrangement and manipulation of abstract elements, allowing for personal interpretation and creative expression. 5) **Develop effective communication and presentation skills:** Students will develop strong communication and presentation skills to effectively convey architectural ideas. They will learn how to articulate their artistic choices and design concepts in a clear and concise manner, both orally and visually. They will also gain experience in presenting their work to an audience, fostering confidence in sharing their creative process and ideas.		

Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. Students will master design elements and principles, creating captivating two-dimensional and three-dimensional abstract art. 2. They will analyze architectural plans and models to understand spatial relationships and composition, applying this knowledge to their own artistic decisions. 3. Students will progress from monochromatic gradients to incorporating colors and textures, exploring their effects for visual impact and conveying ideas or moods. 4. They will go beyond abstract compositions, delving into the abstraction of forms, stories, metaphors, or poems, allowing for personal interpretation and creative expression. 5. Students will develop communication and presentation skills to convey architectural ideas clearly and confidently, both verbally and visually.
Indicative Contents المحتويات الإرشادية	**Indicative content includes the following: -** **Part A–** Mastery of design elements and principles in creating two-dimensional and three-dimensional abstract art. With a focus on Analysis of architectural plans and models to understand spatial relationships and composition, and its application in artistic decision-making.[90 hrs] **Part B–** Progression from monochromatic gradients to the exploration of colors and textures for visual impact and conveying ideas or moods.[65 hrs] **Part C–** Exploration of abstraction beyond compositions, including forms, stories, metaphors, or poems, allowing for personal interpretation and creative expression, as well as Development of communication and presentation skills to effectively convey architectural ideas verbally and visually. [70 hrs]
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	1. Deliver lectures, demonstrations, and visual analysis to introduce and explain design elements and principles in abstract art, illustrating their practical application in architectural plans and models. 2. Dedicate studio time for students to create their own abstract art pieces, utilizing the acquired design elements and principles. Emphasize regular critique sessions to offer constructive feedback on spatial relationships, configuration options, and effective design implementation. 3. Organize field trips to architectural sites, exposing students to real-life examples of spatial relationships and composition. 4. Conduct theory lessons and group critiques to foster the development of concepts, encourage personal interpretation, unique ideas, and effective communication among students and their projects.

Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	126	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	8
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	99	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	7
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**225**		

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Quizzes**	1	12	5,8	5-8
	Projects / Lab.	1	16	15	All
	Online Assignments	2	3	continue	All
	Homework	1	6	continue	All
Summative assessment	**Midterm Exam**	6hr	10%		All
	Final Projects	30hr	20%		All
	Final Exam	6hr	30%		All
Total assessment			100%		

Formative assessment: The project (Analysis & Programming Stage, concept & Prelim, Pre-Final) = 40%

Summative assessment: Midterm Exam 10%+ Finalproject 20%+ Final Exam (day-sketch) 30% =60%

Total assessment= 40%+ 60%= 100%

livery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	**Introduction to Design Elements and Principles:** Introduce students to the fundamental design elements and principles in architecture, Explore concepts such as line, shape, form, space, texture, color, balance, proportion, rhythm, and harmony.
Week 2	Discuss the importance of these elements and principles in creating aesthetically pleasing and functional architectural designs, engage students in hands-on activities and exercises to apply these concepts.
Week 3	**Analyzing Architectural Plans and Mass Models:** Teach students how to analyze architectural plans and mass models effectively, Emphasize the understanding of spatial relationships, circulation, and functional organization.
Week 4	Introduce techniques for measuring and assessing scale, proportion, and balance in architectural designs, provide students with opportunities to critically evaluate existing architectural plans and models.
Week 5	**Experimenting with Color and Texture:** Explore the use of color and texture in architectural design, Discuss the psychological and emotional impact of color on architectural spaces.
Week 6	Introduce various materials and their textures, and how they can be utilized to enhance architectural aesthetics, engage students in exercises to experiment with color schemes and material selections in architectural designs.
Week 7	**Expressing Ideas and Concepts through Abstraction:**Foster students' ability to express architectural ideas and concepts through abstraction, Encourage the use of sketches, diagrams, and conceptual models to communicate design intent,
Week 8	Discuss the role of abstraction in conveying architectural narratives and experiences, assign projects that require students to develop abstract representations of architectural designs.
Week 9	**Developing Effective Communication and Presentation Skills:**Focus on developing students' communication and presentation skills in architecture.
Week 10	Teach techniques for effectively conveying design ideas through oral, written, and visual communication.
Week 11	Provide guidance on preparing professional architectural presentations and portfolio materials, conduct practice sessions for students to refine their communication and presentation skills.
Week 12	**Project Development and Final Presentations:** Allocate time for students to work on a comprehensive architectural project.

Week 13	Guide students through the iterative design process, emphasizing critical thinking and problem-solving.
Week 14	facilitate individual and group critiques to provide feedback and improve design solutions.
Week 15	Prepare students for final presentations, encouraging them to showcase their project development and design thinking skills.
Week 16	**Preparatory week before the final Exam**

Delivery Plan (Weekly Practical Syllabus) المنهاج الاسبوعي للجزء العملي	
	Material Covered
Week 1-2	**Introduction to Design Elements and Principles:** – Line Exploration: Create a series of drawings using different types of lines (straight, curved, thick, thin) to explore their expressive potential. Experiment with line weight, direction, and density. – Shape Composition: Use geometric shapes (circles, squares, triangles) to create two-dimensional abstract compositions. Explore balance, proportion, and rhythm in arranging the shapes. – Color and Texture Study: Select a specific color and texture (e.g., smooth, rough, glossy) and create a series of small-scale artworks using various techniques (painting, collage, digital manipulation) to understand their impact on visual composition. – Principles in Practice: Choose an existing artwork or architectural design and analyze it in terms of balance, proportion, rhythm, and emphasis. Identify the design choices made by the artist/architect and discuss how they contribute to the overall composition.
Week 3-4	**Analyzing Architectural Plans and Mass Models:** – Spatial Relationships Exercise: Analyze architectural plans and identify the spatial relationships between different rooms or areas. Create a series of sketches or diagrams to visualize these relationships. – Scale and Proportion Study: Select a particular architectural mass model and examine its scale and proportion. Create a comparative artwork that depicts the mass model in a different context, emphasizing the impact of scale. – Design Choices Reflection: Analyze architectural plans or mass models and discuss the design choices made by architects. Create a presentation or written analysis that explores how these choices affect the functionality, aesthetics, and user experience of the architecture**.**
Week 5-6	**Experimenting with Color and Texture:** – Monochromatic Gradient Exploration: Experiment with monochromatic color schemes and gradients. Create a series of abstract compositions using different shades and tints of a single color to explore their visual effects. – Incorporating Texture: Introduce texture to your abstract compositions by using various materials, such as paper, fabric, or found objects. Experiment with layering and combining different textures to create visually rich compositions. – Color and Texture Mood Boards: Create mood boards by collecting images, swatches, and samples of colors and textures that convey specific moods or ideas. Use these mood boards as inspiration for creating art compositions that evoke those moods.

Week 7-8	**Expressing Ideas and Concepts through Abstraction:** – Abstract Forms and Stories: Choose a concept, story, or metaphor and create a series of abstract sculptures or 2D artworks that represent or evoke the essence of that idea. Experiment with different materials, shapes, and arrangements to convey your intended meaning. – Narrative Composition: Create an abstract composition that tells a story or depicts a sequence of events. Use design elements and principles to guide the arrangement and visual flow of the composition. – Abstract Poetry: Write a poem that explores abstract ideas or emotions. Use visual elements such as line breaks, spacing, and typography to convey the meaning and emotions of the poem visually.
Week 9-11	**Developing Effective Communication and Presentation Skills:** – Verbal Communication Practice: Prepare short presentations or elevator pitches to explain your artistic choices and design concepts. Practice articulating your ideas clearly and concisely to different audiences. – Visual Communication Exercise: Create visual presentations using slides or multimedia formats to showcase your artistic process and ideas. Use images, sketches, and diagrams to support your explanations and engage the audience. – Peer Critique Sessions: Organize critique sessions with fellow students to provide feedback on each other's work. Practice giving and receiving constructive criticism, focusing on the clarity of artistic choices and communication of ideas.
Week 12-15	**Project Development and Final Presentations:** – Guided Project Development: Based on individual interests and concepts, develop a comprehensive art project that incorporates design elements, architectural analysis, color and texture experimentation, abstraction, and effective communication skills. Seek guidance and feedback from instructors throughout the development process. – Feedback and Refinement: Regularly present your work in progress to receive feedback and critique from instructors and peers. Use this feedback to refine and improve your artistic ideas, compositions, and communication strategies. – Final Presentation Showcase: Prepare a final presentation to showcase your completed project. Demonstrate how you have applied the knowledge and skills acquired throughout the course, highlighting the integration of design elements, architectural analysis, color and texture experimentation, abstraction, and effective communication techniques.

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	**"Architecture: Form, Space, and Order"** by Francis D.K. Ching. This book is widely regarded as a foundational resource in architectural education and provides a comprehensive exploration of architectural design principles, including form, space, and order. It delves into topics such as the organization of space, the interaction of forms, and the visual qualities of architecture. With its clear illustrations and explanations, this book offers valuable insights into the fundamental principles of architectural design and their application.	Yes
Recommended Texts	1. "**Architectural Graphics**" by Francis D.K. Ching and James F. Eckler - This book provides a comprehensive overview of architectural drawing techniques, including line exploration, shape composition, and spatial relationships. It covers the principles of architectural design and their application in the visual representation of architectural plans. 2. "**Architectural Design: Composition, Skills, and Process**" by William Pena and Steven Parshall - This book focuses on the principles and techniques of architectural design, including the exploration of color, texture, scale, proportion, and balance. It offers practical exercises and examples to help students understand and apply these principles in their design work. 3. "**Design Basics**" by Stephen Pentak and Richard Roth - This book explores the fundamental elements and principles of design, including line, shape, color, texture, balance, proportion, rhythm, and emphasis. It provides a comprehensive understanding of these concepts and how they can be applied in various artistic disciplines, including architecture. 4. "**The Language of Architecture: 26 Principles Every Architect Should Know**" by Andrea Simitch and Val Warke - This book presents a concise overview of key principles in architectural design, providing insights into how architects think and work. It covers topics such as form, space, light, color, materiality, and representation, offering valuable guidance for analyzing and creating architectural compositions.	Yes
Websites		

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

جدول الساعات المجدولة وغير المجدولة Basic of Architectural Design I

نوع النشاط	الساعات المجدولة SSWL	الساعات غير المجدولة USSWL	عدد الأسابيع	ساعة لكل أسبوع	العبء الكلي للنشاط
محاضرات	محاضرات في القاعات الدراسية		**15**	**2**	**30**
المختبر	دوام المختبر		**0**	**0**	**0**
مناقشات*	المناقشات		15	2	30
مشروع عملي*	مشروع عملي		15	4	60
		التهيئة للمشروع	15	6	90
تحضير الدروس اليومي		تحضير الدروس اليومي	**0**	**0**	**0**
العروض التقديمية*	القاء العرض التقديمي				
		التهيئة للعرض التقديمي	**1**	**2**	**2**
الامتحانات اليومية	الامتحان		**0**	**0**	**0**
		التهيئة للامتحانات اليومية	**0**	**0**	**0**
امتحان نصف الفصل	الامتحان		**0**	**0**	**0**
		التهيئة للامتحان	**1**	**2**	**2**
امتحان نهاية الفصل	الامتحان		**1**	**6**	**6**

5	5	1	التهيئة للامتحان		
225	العبء الكلي للمادة خلال الفصل:				
9	عدد الوحدات:				
*لا توجد ساعات مجدولة لهذه النشاطات كون تم استيفاؤها ضمن الصفوف الدراسية.					

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Architectural Drawing**			**Module Delivery**	
Module Type	Core			☒ **Theory**	
Module Code	**WARC02**			☐ **Lecture**	
ECTS Credits	**5**			☐ **Lab**	
SWL (hr/sem)	**125**			☐ **Tutorial**	
				☒ **Practical**	
				☐ **Seminar**	
Module Level	UGI		**Semester of Delivery**	One	
Administering Department	WAR		**College**	College of Engineering	
Module Leader	Zainab Jaber Mohammed		**e-mail**	Email: gl308@uowasit.edu.iq	
Module Leader's Acad. Title	Assistant Lec.		**Module Leader's Qualification**	MSc. in Water Resources Eng.	
Module Tutor			**e-mail**		
Peer Reviewer Name			**e-mail**		
Scientific Committee Approval Date			**Version Number**	1.0	

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module		**Semester**	
Co-requisites module	WARC04, WARC07	**Semester**	2, 3

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	1. Introducing the methods and the techniques of the architectural drawing and using engineering tools to students 2. Training students to master the skill of controlling geometric lines and drawing geometric shapes. 3. Training the students to draw the horizontal and vertical sections as well as the sections with all their types 4. Making the students familiarized with the geometric symbols of the architectural and structural elements like doors and windows and likewise 5. Training the students on the 3d drawing (Isometric) 6. To identify the types of stairs and learn how to design and draw its.

Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. Being familiar with the architectural expressing methods of the geometric shapes through architectural drawing 2. Being familiar with the method of drawing and plans as well as the section and the architectural buildings. 3. Being familiar with the method of drawing architectural elements with the drawing symbols. 4. Being familiar with drawing geometrical shapes in 3d (Isometric) 5. The ability to read architectural schemes and the geometric symbols that they contain. 6. The ability of visual expressing of the architectural works via architectural drawing 7. Having the skill of architectural drawing and the ability to control geometrical lines to express the architectural work. 8. Having the ability of visual expressing of the architectural thoughts through the architectural drawing. 9. The ability to deal and learn from others through the educational process. 10. The sense of the importance of committing to the architectural drawings precision that will be transformed to an architectural product in sites. 11. Gaining the skill of comparing the applied reality in the site and its geometrical representation. 12. Gaining the visual communication skill through the ability to express geometrical drawing of the visible elements.

Indicative Contents المحتويات الإرشادية	Indicative content includes the following. Part A – the principle of Engineering drawing Introduction to architectural drawing, definition of architectural drawing tools and how to use them, drawing engineering lines with different thicknesses and formations, Basic technical drawing and drawing geometric and curved shapes, Geometrical Construction. [46hrs] Development of surfaces (Cubic, Cylinder, Cone, Pyramid), Principle of Projection. [35hrs] The principle of 3D Drawing - Drawing the isometric perspective. [12hrs] Part B – Architectural Drawing Architectural drawing scale, Architectural symbols and terms. [24hrs] plans drawing, Plan and furniture drawing, Section drawing, Design and drawing Stairs. [46hrs] elevation and Site plan drawing. [12hrs]

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises at the class and home, while at the same time refining and expanding their critical thinking skills, and develop their imagine and drawing skills.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	93	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	6
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	32	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	2
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**125**		

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	1	3	5	LO #3, #4, #5
	Assignments	1	24	continue	All
	Project	1	5	12	All
	homework	1	8	continue	All
Summative assessment	Midterm Exam	2hr	10%	13	All
	Final Exam	3hr	50%	16	All
Total assessment			100%		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Introduction to architectural drawing, definition of architectural drawing tools and how to use them.
Week 2	Drawing engineering lines with different thicknesses and formations.
Week 3	Basic technical drawing, draw geometric and curved shapes.
Week 4	Geometrical Construction.
Week 5	Development of surfaces (Cubic, Cylinder)
Week 6	Development of surfaces (Cone, Pyramid)
Week 7	Principle of Projection.
Week 8	Drawing the isometric perspective.
Week 9	Architectural drawing scale and architectural terms.
Week 10	Drawing architectural symbols and elements.
Week 11	Reading and drawing horizontal sections (plans).
Week 12	Vertical section drawing.
Week 13	Design and drawing Stairs.
Week 14	Elevation and Site plan drawing.
Week 15	Preparatory week before the final Exam.

Delivery Plan (Weekly Practical Syllabus) المنهاج الاسبوعي العملي	
	Material Covered
Week 1-2	**Introduction to architectural drawing and Drawing engineering lines with different thicknesses and formations.** Line Drawing: Create a series of exercise drawings using different types of lines (straight, curved, thick, thin) to explore their expressive potential and to experiment with line weight, direction, and density.
Week 3-4	**Basic technical drawing and Geometrical Construction.** Drawing different geometric shapes (circles, squares, triangles) with different technical ways
Week 5-6	**Development of surfaces.** Drawing the development of surfaces for cubic, cylinder, cone and pyramid shapes with two ways.
Week 7	**Principle of Projection.** Drawing an exercise of projection by use the Third angle projection way for different models.
Week 8	**Drawing the isometric perspective.** Exercises to learn drawing the three-dimensional shapes by using the isometric perspective way.
Week 9-10	**Architectural drawing scale and architectural symbols and elements.** Select a particular architectural simple plan and examine its scale and proportion drawing, and learn to recognize and drawing different architectural symbols and elements like: doors and windows in plan and section, and with different scale.
Week 11-12	**Reading and drawing horizontal and vertical sections.** Drawing the horizontal sections (plans) with the details in different scales, and drawing the vertical sections for plans.

Week 13	**Design and drawing Stairs.** Design and drawing different type of satires (straight, the U-shape stair and circular) and drawing the plan and section for these satires.
Week 14	**Elevation and Site plan drawing.** Exercises for drawing elevation and site plan with landscape for a plan of project.

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Architectural Drawing and Light Construction, EDWARD J. MULLER Neufert Architects Data, BousmahBaiche and Nicolas Walliman.	Yes
Recommended Texts	Ching, F (2009, 5th. Ed.). Architectural Graphics. NY, Wiley.	No
Websites		

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

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

جدول الساعات المجدولة و غير المجدولة لمادة

Architectural Drawing

نوع النشاط	الساعات المجدولة SSWL	الساعات غير المجدولة USSWL	عدد الأسابيع	ساعة لكل أسبوع	العبء الكلي للنشاط
محاضرات	محاضرات في القاعات الدراسية		**15**	**2**	**30**
المختبر	دوام المختبر		15	4	60
مناقشات*	المناقشات		0	0	0
مشروع عملي*	مشروع عملي		0	0	0
		التهيئة للمشروع	0	0	0
تحضير الدروس اليومي		تحضير الدروس اليومي	**8**	**1**	**8**
العروض التقديمية*	القاء العرض التقديمي		0	0	0
		التهيئة للعرض التقديمي	0	0	0
الامتحانات اليومية	الامتحان				
		التهيئة للامتحانات اليومية	**4**	**2**	**8**

امتحان نصف الفصل	الامتحان				
	التهيئة للامتحان	**1**	**6**	**6**	
امتحان نهاية الفصل	الامتحان	**1**	**3**	**3**	
	التهيئة للامتحان	**1**	**10**	**10**	
			العبء الكلي للمادة خلال الفصل:		**125**
			عدد الوحدات:		**5**
*لا توجد ساعات مجدولة لهذه النشاطات كون تم استيفاؤها ضمن الصفوف الدراسية.					

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Basic of Art & Architecture**			**Module Delivery**	
Module Type	Core			☒**Theory** ☐ **Lecture** ☐ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**WARC03**				
ECTS Credits	**4**				
SWL (hr/sem)	**100**				
Module Level		UGI	**Semester of Delivery**		One
Administering Department		WAR	**College**	College of Engineering	
Module Leader	Sarah Majid Musheer		**e-mail**	Email: gl309@uowasit.edu.iq	
Module Leader's Acad. Title		Assistant Lec.	**Module Leader's Qualification**		MSc. in Arch. Eng.
Module Tutor			**e-mail**		
Peer Reviewer Name			**e-mail**		
Scientific Committee Approval Date		20/6/2023	**Version Number**	1.0	

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	Non	**Semester**	
Co-requisites module	Non	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	1. The course aims to develop the student's critical and analytical capabilities by establishing the necessary principles 2. Promoting and studying the concepts of space, mass and form from various aspects 3. View the most important critical theses that dealt with architecture as a hybrid product of science and art 4. Deepening the student's sense of design elements at the entrance to his academic life, such as lines, color, texture, etc. 5. A detailed explanation of artistic trends in the nineteenth and twentieth centuries and linking them with architecture 6. Clarifying the influence of artistic movements on architecture, and vice versa, beginning with the classical orientation of Greece and Romania, and ending with the new modernity trend in the nineties of the last century and the beginning of the second millennium, passing through several artistic movements, including romanticism, impressionism, brutalism, cubism, expressionism, performanceism, surrealism, supremacy, constructivism, and De Stijl.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. Learn about the nature of architecture and its connections with other sciences. 2. Addressing a set of terms related to the elements and principles of architectural design. 3. Clarify the concept of the relationship between forms to create composition. 4. Clarify the importance of space and how to perceive it in relation to mass. 5. Description of organic and functional architecture. 6. Determine the features of art and architecture in the ancient, classical and Renaissance civilizations. 7. Identifying artistic trends and a group of artists and the relationship of some of these trends to architectural movements. 8. Clarify the influence of abstract art and the D-style movement on architecture. 9. Identifying postmodern trends.

Indicative Contents المحتويات الإرشادية	Part A - Design Elements and Principles Definition of elements - examples for each element, definition of principles, examples for each principle, clarification of the concept of relationships - definition of formation, the difference between mass and space. [20 hours] Definition of architecture and its connections with other sciences - features of the architect. [10 hours] Organic architecture and functional architecture. [15 hours] Part B - Technical and Architectural Orientations Art and architecture in ancient, classical and Renaissance civilizations. [15 hours] Artistic trends, starting from romanticism, realism, brutality, and impressionism.... abstraction. [15 hours] Aldi Style, Bauhaus, and Art Nouveau. [15 hours] Postmodernism and late modernity. [10 hours]

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	Explaining and clarifying theoretical lectures through presentations, encouraging the student to discuss in class to improve their skills, and urging him to express his self-opinion and be of constructive criticism. Exchanging a set of questions regarding the lesson as brainstorming for the student. The lesson requirements vary between a lecture, questions, homework, and reports.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	63	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	37	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	2.5
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**100**		

Module Evaluation
تقييم المادة الدراسية

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

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي النظري

	Material Covered
Week 1	The view of architecture in the light of the intellectual diversity of its critics, including: Louis Kahn, Peter Colin, Alvaracto, Broadbent, Zevi, Sarnin, Ruskin...etc.
Week 2	Design principles: congruence, similarity and difference, balance and proportion, unity and homogeneity. Design elements: line, direction, shape, size, texture, light value, and color.
Week 3	Configuration... and the concept of relationship and form
Week 4	Mass and architectural space
Week 5	Preliminary explanation of architectural trends (in theory and practice).
Week 6	The organic direction in architecture, the expressive direction in architecture.
Week 7	Art and architectural trends in ancient civilization
Week 8	The classical trend of the Greeks and Romans
Week 9	Renaissance trends and the seventeenth century
Week 10	The realistic trend in the second half of the nineteenth century and impressionism in the last quarter of the nineteenth century - the impressionist artist Cézanne neo-impressionism.
Week 11	Brutalism in art, Cubism in Picasso's art. Kandinsky and Futurism in Art.
Week 12	Surrealist performance - Salvador Dali, abstract art - Mondrian. Suprematism - Malfej Russian Constructivism. Die-steel movement. A general explanation of the relationship between artistic trends and architecture.
Week 13	Romanticism and Architecture: The Arnouveau-Gaudi Art Nouveau Movement. Expressionism and Architecture: Trends of the Expressionist Movement in Architecture and Neo-Expressionism.
Week 14	De Stael and Architecture. The Bauhaus.
Week 15	Postmodern trends and late modernity
Week 16	**Preparatory week before the final Exam**

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	Architecture: Form, Space, and Order. Francis-D.K.-Ching	Yes
Recommended Texts	A collection of lectures on the principles of art and architecture	No
Websites	A collection of photos to support the study material	

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

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

جدول الساعات المجدولة وغير المجدولة لمادة

Basic of Art & Architecture

نوع النشاط	الساعات المجدولة SSWL	الساعات غير المجدولة USSWL	عدد الأسابيع	ساعة لكل أسبوع	العبء الكلي للنشاط
محاضرات	محاضرات في القاعات الدراسية		**15**	**4**	**60**
المختبر	دوام المختبر		0	0	0
مناقشات*	المناقشات		0	0	0
مشروع عملي*	مشروع عملي		0	0	0
		التهيئة للمشروع	0	0	0
تحضير الدروس اليومي		تحضير الدروس اليومي	**14**	**1**	**14**
العروض التقديمية*	القاء العرض التقديمي		0	0	0

		التهيئة للعرض التقديمي	5	1	5
الامتحانات اليومية	الامتحان		**0**	**0**	**0**
		التهيئة للامتحانات اليومية	**3**	**2**	**6**
امتحان نصف الفصل	الامتحان		**0**	**0**	**0**
		التهيئة للامتحان	**1**	**5**	**5**
امتحان نهاية الفصل	الامتحان		**1**	**3**	**3**
		التهيئة للامتحان	**1**	**7**	**7**
			العبء الكلي للمادة خلال الفصل:		**100**
			عدد الوحدات:		**4**

*لا توجد ساعات مجدولة لهذه النشاطات كون تم استيفاؤها ضمن الصفوف الدراسية.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية			
Module Title	**Physics**	**Module Delivery**	
Module Type	**Supportive**		☒ **Theory**
Module Code	**WARS01**		☐**Lecture**
ECTS Credits	**2**		☐ **Lab**
SWL (hr/sem)	**50**		☐**Tutorial** ☐ **Practical** ☐ **Seminar**
Module Level	1	**Semester of Delivery**	1
Administering Department	WAR	**College**	College of Engineering

Module Leader	Adil Mahdi Jabbar	**e-mail**	adilmahdi@uowasit.edu.iq
Module Leader's Acad. Title	Lecturer Dr.	**Module Leader's Qualification**	Ph.D.
Module Tutor		**e-mail**	
Peer Reviewer Name		**e-mail**	
Scientific Committee Approval Date	01/06/2023	**Version Number**	1.0

Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

Prerequisite module	None	**Semester**	
Co-requisites module	Structures I	**Semester**	4

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Objectives

أهداف المادة الدراسية

1. This course deals with the fundamentals of forces, loads, moments, and couples
2. To define the types of forces and loads and their effects on bodies, and characteristics of a force. Also, resolve and compose forces in a plane and space.
3. To identify the moments and couples resulting from the forces in bodies.
4. To identify types of force systems and determine the resultant force.
5. To define the equilibrium of bodies and resolve the beams and frames.
6. To identify the types of trusses and methods of truss analysis.
7. Learn to find the centroid and center of gravity.

Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. Defining the types of forces that affect bodies and methods for analyzing single inclined forces into orthogonal or inclined components using sines law. 2. Distinguish the types of forces and methods of analyzing them using the laws of sines and cosines. 3. Definition of the concept of plane and space and analysis of forces in two or three directions. 4. Distinguish methods of transferring forces in bodies and their effects. Besides moments due to forces in a plane or space. 5. Defining the resultant of a force system acting on an object. 6. Defining the types of supports for objects, horizontal and inclined struts, and the reactions at them. 7. Definition of the concept of equilibrium for bodies. And the Definition of Newton's laws of motion. 8. Definition of trusses, their types and method of connecting the members, and the transfer of forces within the members to the supports. 9. Find the center of the superimposed areas and the center of the areas under the curve.
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. <u>Part A – Force types and effects</u> Forces - Analysis of a force into orthogonal or inclined components. Composition of forces to one. Resolution of forces in space. [10 hrs] Moment of forces and couples- the tendency of a body to turn or rotate about an axis with its fundamentals. The effect of two equal, opposite, and parallel forces on a body in plane and space. [10 hrs] Resultant of a force system – Types of force systems and using cosine and sine laws to determine their resultant. [15 hrs] Equilibrium - Types of loading and supports. single force and distributed loads on a strut and their intensity. Equations of equilibrium of forces. [15 hrs] Trusses – types of trusses. Methods of analysis: joint method and section methods. [15 hrs]

	Centroid and center of gravity – centroid of the area under a curve and centroid of composite areas. [10 hrs.]

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The main strategy that will be adopted in presenting this module includes explaining the topics of the subject theoretically in class and encouraging students to participate in solving homework exercises. In addition to class participation by improved students' brainstorming skills through direct questions inside the class. As well as periodic review of topics by students through conducting quick exams.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	33	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	2.0
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	17	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	1
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**50**		

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

Formative assessment	**Quizzes**	2	10	6, 10	LO #1-5 and 6-9
	Assignments	1	5	continue	All
	homework	1	5	continue	All
	Report	1	10	12	LO #13
Summative assessment	**Midterm Exam**	2hr	10% (10)	11	LO #1 - #8
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Force – definition, types of forces, and effects. Analysis of forces into the orthogonal or inclined components
Week 2	Composition of forces
Week 3	Moment of force in plane and space
Week 4	Couples – composition, and transfer in plane and space. Analysis of a force into a force and a couple.
Week 5	Resultant of force systems: concurrent coplanar FS, non- concurrent coplanar FS
Week 6	Resultant of parallel non-coplanar force system, resultant of forces in space.
Week 7	Types of loading. Equilibrium- Newton's Laws, types of supports, and free body diagram
Week 8	Equations of equilibrium, analysis of equilibrium bodies. Two force members and three force members
Week 9	Trusses – definition, types of trusses, joint method of analysis
Week 10	Trusses - section method of analysis
Week 11	Midterm Exam
Week 12	Center of gravity and centroids

Week 13	Centroid of the area under curves
Week 14	Centroid of the composite area including curves
Week 15	**Review and a preparatory week before the Final Exam**
Week 16	**Final Exam**

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	**Available in the Library?**
Required Texts	Engineering Mechanics, Archie Higdon; William Stiles, Prentice-Hall	Yes
Recommended Texts	Engineering Mechanics: Statics, 14th Edition, Russell Hibbeler, Pearson Education, Inc.	Yes

Grading Scheme

مخطط الدرجات

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

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to

condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

جدول الساعات المجدولة وغير المجدولة لمادة الفيزياء – الفصل الاول

نوع النشاط	الساعات المجدولة SSWL	الساعات غير المجدولة USSWL	عدد الأسابيع	ساعة لكل أسبوع	العبء الكلي للنشاط
محاضرات	محاضرات في القاعات الدراسية		**15**	**2**	**30**
المختبر	دوام المختبر		0	0	0
مناقشات*	المناقشات		0	0	0
مشروع عملي*	مشروع عملي		0	0	0
		التهيئة للمشروع	0	0	0
تحضير الدروس اليومي		تحضير الدروس اليومي	**12**	**1**	**12**
العروض التقديمية*	القاء العرض التقديمي		0	0	0
		التهيئة للعرض التقديمي	0	0	0
الامتحانات اليومية	الامتحان		**0**	**0**	**0**
		التهيئة للامتحانات اليومية	**1**	**1**	**1**
امتحان نصف الفصل	الامتحان		**0**	**0**	**0**
		التهيئة للامتحان	**0**	**0**	**0**
امتحان نهاية الفصل	الامتحان		**1**	**3**	**3**
		التهيئة للامتحان	**1**	**4**	**4**
			العبء الكلي للمادة خلال الفصل:		**50**
			عدد الوحدات:		**2**

*لا توجد ساعات مجدولة لهذه النشاطات كون تم استيفاؤها ضمن الصفوف الدراسية.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Mathematics 1**			**Module Delivery**	
Module Type	**Core**			☒ **Theory**	
Module Code	**COE01**			☐ **Lecture**	
ECTS Credits	**5**			☐ **Lab**	
SWL (hr/sem)	**125**			☒ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Level	UG1		**Semester of Delivery**	1	
Administering Department	WAR		**College**	Engineering	
Module Leader	Dr. Alaa Sabeh Taeh		**e-mail**	alaataeh@uowasit.edu.iq	
Module Leader's Acad. Title	Lecturer		**Module Leader's Qualification**	Ph.D. in Material Eng.	
Module Tutor			**e-mail**		
Peer Reviewer Name	1- Dr. Ali Asaad Tayeb 2- Assis.Prof. Hiba D. Saleem 3- Lect. Abdalameer Tariq Abbas		**e-mail**		
Scientific Committee Approval Date	9/11/2023		**Version Number**	1.0	

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	-	**Semester**	-

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	1. Providing the students with a sufficient knowledge on doing calculations, interpreting results, and dealing with different mathematical functions and their graphs. 2. Providing the students with the necessary skills on dealing with transcendental functions (trigonometric, inverse trigonometric, exponential, and power, natural logarithm, hyperbolic, inverse hyperbolic functions). 3. Strengthen the students' knowledge on the principles of derivatives, their concept and applications in engineering. 4. Providing the students with a sufficient knowledge on the principles of integral (definite and indefinite), its meaning, mathematical techniques such as Trapezoidal and Simpson approximation of integrals and eventually the engineering applications of it. 5. Improvement of the students' skills on the dealing with complex equations and numbers in simple and different mathematical ways. 6. Awarding students the necessary skills of connecting the academic mathematics with real worlds engineering problems. 7. How to solve integrals and differentials equations with different coordinates. 8. Analyze equations using the matrix method. 9. Developing students' skills in the calculation of the area between curves, surface area of revolution, volume of revolution, length of curve.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. Realize the importance of studying mathematics and its relationship to engineering sciences. 2. Defining and understanding functions such as the trigonometric and transcendental functions and their graph. 3. The students will have the ability for dealing with limits and how to check the continuity of the functions. 4. Define and find the relationship between Limits, Continuity and derivatives. 5. The students will be able to solve a wide variety of mathematical derivative problems using different mathematical methods and understand their applications.

	6. The students will be able to solve a wide variety of mathematical integration problems using substitution and integration by parts. 7. To be able to use the fundamental theorem of calculus to evaluate definite integral and calculate the areas, volumes, lengths of plane curves. 8. Learn about mathematical analysis methods, mathematical equations and formulas, and how to apply them in engineering. 9. Solving complex functions. 10. Solving integrals and differentials equations with different coordinates. 11. Solving different equations using the matrix method. 12. Solving complex equations and numbers in simple and different mathematical ways.
Indicative Contents المحتويات الإرشادية	**Part A (16hr)** Functions: types (such as Algebraic, Trigonometry, Hyperbolic and their inverse), Domain and range, and Graphing of equations. **Part B (10 hr)** Limits and continuity of functions **Part C (20 hr)** Derivative: principles, their rules such as chain rule, its applications for different functions including Trigonometric, Inverse trigonometric, hyperbolic, and Logarithmic and exponential functions. **Part D (12 hr)** Integrals: its rules, methods of solve different functions (Trigonometric, Inverse trigonometric, hyperbolic, and Logarithmic and exponential functions), and its applications such as Areas between curves, Volumes of revolution, Length of the curve, Surface Area of revolution. Methods of Integration: Trigonometric Substitution, Quadratics, Partial Fractions, Integration by parts, Further Substitutions.

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	1. Class lectures with using illustration means. 2. Encouraging the students to participate in solving exercises in class to improve students' skills. 3. 3.Training students on solving home works 4. Practicing in class questions and discussions 5. Doing quizzes and exams

	6. In class questions and discussions to improve their understanding and critical thinking skills. 7. Supportive videos will also be available.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	63	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	62	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	4
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	125		

Module Evaluation
تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Quizzes**	20min/ 2	5% (5)	4,8	LO# 2-4, LO# 5-8,
	Home Works	1hr/4	4% (4)	3,5,7,9	LO# 3, LO# 4-5, LO# 6, LO # 7-8
	Online Assignments	1hr/1	4% (4)	11	LO# 3
	Report	1	10% (10)	10	LO # 1-8
Summative assessment	**Midterm Exam**	1hr/1	10% (10)	15	LO # 1-9
	Final Exam	3hr/1	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Brief review
Week 2	Domain and range of functions.
Week 3	Functions and their graphs.
Week 4	Functions and their graphs.
Week 5	Limits and continuity of functions.
Week 6	Limits and continuity of functions.
Week 7	Mid term
Week 8	Derivatives of functions - Rules of derivatives. - Chain rule. - Implicit derivatives. - Higher derivatives.
Week 9	Trigonometric functions - Properties , Derivatives Rules
Week 10	Inverse trigonometric functions - Properties, Derivatives Rules.
Week 11	Hyperbolic functions - Properties, Derivatives Rules.
Week 12	Application of Derivatives. - Velocity and acceleration. - Equation of tangent.
Week 13	Integrals - Integration formulas - Integration of logarithmic and exponential functions.
Week 14	Integration of Trigonometric, Inverse trigonometric, and Hyperbolic functions
Week 15	Integration of Trigonometric, Inverse trigonometric, and Hyperbolic functions

Week 16	**Preparatory week before the final Exam**

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Thomas' Calculus: (George B. Thomas, Maurice D. Weir and Joel R. Hass , 2011, 12th Edition)	Yes
Recommended Texts	1. Matrix Methods and Differential Equations A Practical Introduction by Wynand S. Verwoerd. 2. Advanced Engineering Mathematics by Erwin Kreyszig 8th Edition. 3. Essential Engineering Mathematics by Michael Batty 2011.	Yes
Websites	YouTube channel of the instructor+ Google Classroom https://www.coursera.org/browse/physical-science-and-engineering/electrical-engineering	

Grading Scheme

مخطط الدرجات

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

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

Unstructured SWL			
Activities	Number of weeks	(h/w)	Total hours
Preparation for class	15	2	30
Solving homework	7	1	7
Preparation for Quizzes	3	3	9
Preparation for Mid-term exam	1	6	6
Preparation for Final exam	1	10	10
Total USSWL			62

Description
Qualifying, training and teaching the student on the rules and methods of derivative of various functions and their mathematical applications in our daily lives and benefiting from them in the curriculum of advanced mathematics for the second stage and then in the third stage while solving different equations and linking them with the rest of the other topics. Calculus lectures in the first course are given in two parts, the first one in the classroom which involve 3 theoretical hours and 1 hour of discussion to clarify the topics in more detail each week which is defined SSWL (structural student work load) and the second part is defined as USSWL (unstructured student work load) which include all activity out the class.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information

معلومات المادة الدراسية

Module Title	**Fundamentals of Computer Science I**	**Module Delivery**	
Module Type	Basic		☒**Theory** ☐ **Lecture** ☒ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**
Module Code	WU03		
ECTS Credits	**3**		
SWL (hr/sem)	**75**		

Module Level	UGI	**Semester of Delivery**	One
Administering Department	WAR	**College**	College of Engineering
Module Leader	Hala Abdul Adeem Naman	**e-mail**	haltee@uowasit.edu.iq
Module Leader's Acad. Title	Lecturer	**Module Leader's Qualification**	PH.D in information and communication Eng.
Module Tutor	Zainab Jaber Mohammed	**e-mail**	GI308@ uowasit.edu.iq
Peer Reviewer Name		**e-mail**	
Scientific Committee Approval Date		**Version Number**	1.0

Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

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

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	1. Giving the student a general idea of computer material at a study environment, library, and at home. 2. Understanding the basic rules for dealing with and managing computers (computer basics, computer components, computer and software licenses, operating systems, ...), With the aim of preparing the student to enter the programs he needs in the department. 3. Giving the student knowledge about the office applications as basic principles for students in the College of Engineering. 4. Providing a sufficient introduction on the programming concepts.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. Knowing computer peripherals, their connections and Windows system. 2. Distinguish between the important tabs in the Word program. 3. The ability to write an entire paragraph with formatting. 4. Understand the basics of power point program. 5. Understand the excel sheet program. 6. Understanding the concepts of progamming

Indicative Contents المحتويات الإرشادية	Part A (9 hr) Introduction to computer principles and main operating system. Part B(9 hr) MS Word software, introduction , main menus, commands and additional tasks Part C (6 hr) MS Power Point program, introduction , main menus, commands and additional tasks. Part D (9 hr) MS Excel program, introduction , main menus, commands and additional tasks Part E (8 hr) Introduction to the programing

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	1. Using computers and display screens to explain lectures to students to increase students' mental comprehension. 2. Practical application in the computer lab of what was explained in the theoretical lecture. 3. Using direct questions in the classroom as brainstorming skills. 4. Encouraging students to solve class and homework assignments and to perform specialized reports.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	48	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	3
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	27	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	2
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**75**		

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

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Computer Fundamentals, computer components, computer Safety, and software Licenses
Week 2	Main Operating systems
Week 3	Additional tasks in operating system
Week 4	Introduction to Microsoft word, exploration of main menus
Week 5	Additional tasks in Ms Word Cont.
Week 6	Additional tasks in Ms Word Cont.
Week 7	Mid-term exam
Week 8	Introduction to Microsoft Power Point
Week 9	Insert Objects and Add Animations in Microsoft Power Point
Week 10	Introduction to Microsoft Excel
Week 11	Additional Tasks in Microsoft Excel.
Week 12	Additional Tasks in Microsoft Excel. Cont.
Week 13	Introduction to programming
Week 14	Additional Tasks in programing
Week 15	**Review and a preparatory week before the Final Exam**
Week 16	Final Exam

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	Computer Fundamentals.
Week 2	Introduction to Microsoft word, Insert Objects to Microsoft word
Week 3	Insert Objects to Microsoft word
Week 4	Additional Tasks in Microsoft word
Week 5	Introduction to Microsoft Excel
Week 6	Insert Objects to Microsoft Excel
Week 7	Additional Tasks in Microsoft Excel
Week 8	Introduction to Microsoft Power Point
Week 9	Additional Tasks in Microsoft Power Point
Week 10	Additional Tasks in Microsoft Power Point
Week 11	Introduction to Microsoft Excel
Week 12	Additional Tasks in Microsoft Excel.
Week 13	Introduction Tasks in programing
Week 14	Additional Tasks in programing

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	اساسات الحاسوب وتطبيقاته المكتبية الجزء الاول (للمؤلف أ.د. غسان حميد عبد المجيد) اساسات الحاسوب وتطبيقاته المكتبية الجزء الثاني (للمؤلف أ.د. غسان حميد عبد المجيد)	نعم
Recommended Texts	Microsoft Word 2019 Step by Step (Joan Lambert)	كلا
Websites		

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

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

جدول الساعات المجدولة و غير المجدولة لمادة

Computer Skills

نوع النشاط	الساعات المجدولة SSWL	الساعات غير المجدولة USSWL	عدد الأسابيع	ساعة لكل أسبوع	العبء الكلي للنشاط
محاضرات	محاضرات في القاعات الدراسية		15	1	15
المختبر	دوام المختبر		15	2	30
مناقشات	المناقشات		0	0	0
مشروع عملي	مشروع عملي		0	0	0
		التهيئة للمشروع	0	0	0
انجاز الواجب البيتي		تحضير المشاريع البيتية	3	1	3
العروض التقديمية	القاء العرض التقديمي		0	0	0
		التهيئة للعرض التقديمي	0	0	0
الامتحانات اليومية		التهيئة للامتحانات اليومية	3	2	6
امتحان نصف الفصل	الامتحان		0	0	0
		التهيئة للامتحان	1	6	6
امتحان نهاية الفصل	الامتحان		1	3	3
		التهيئة للامتحان	1	12	12
			العبء الكلي للمادة خلال الفصل:		75
			عدد الوحدات:		3

*لا توجد ساعات مجدولة لهذه النشاطات كون تم استيفاؤها ضمن الصفوف الدراسية.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information
معلومات المادة الدراسية

Module Title	**اللغة العربية**	**Module Delivery**	
Module Type	**Basic**		☒ **Theory**
Module Code	**WU02**		☐ **Lecture**
ECTS Credits	**2**		☐ **Lab**
SWL (hr/sem)	**50**		☐ **Tutorial**
			☐ **Practical**
			☐ **Seminar**

Module Level	UGI	**Semester of Delivery**	First
Administering Department		**College**	College of Engineering
Module Leader	زينب دايخ مطر	**e-mail**	Zainabd303@uowasit.edu.iq
Module Leader's Acad. Title	مدرس	**Module Leader's Qualification**	PhD.
Module Tutor		**e-mail**	
Peer Reviewer Name	مشتاق كاظم جمعة	**e-mail**	mjmaah@uowasit.edu.iq
Scientific Committee Approval Date	2023-11-9	**Version Number**	1.0

Relation with other Modules
العلاقة مع المواد الدراسية الأخرى

Prerequisite module	لا يوجد	**Semester**	
Co-requisites module	لا يوجد	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	1- المهارة اللغوية للطلبة و تمكينهم من التعبير عن أفكارهم و مشاريعهم باللغة العربية و بطلاقة. Linguistic proficiency of students by enabling them to express their ideas and projects in fluent Arabic. 2- تجنيب الطلبة التحدث باللغة الدارجة او الكلمات غير العربية Students avoid speaking in colloquial and non-Arabic language in the simplest ways. 3- كتابة التقارير والمقالات باللغة العربية و بشكل انسيابي و دقيق و منظم Writing reports and articles in fluent, concise and well-organized Arabic. 4- استخدام قواعد اللغة العربية بشكل صحيح لان اللغة هي الأداة الأساسية للتواصل بين افراد المجتمع. Use Arabic grammar correctly; Because language is the primary tool of communication between members of society. 5- قراءة وفهم النصوص الاكاديمية باللغة العربية. Reading and understanding academic texts in Arabic. 6- تطوير قابلية الطلبة على أداء المهام وتقديمها في الوقت المطلوب. Developing the student's ability to perform assignments and submit them on time.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	عند الانتهاء من هذا الفصل، سيكون الطلاب قادرين على: 1- إجادة القراءة والكتابة والتحدث باللغة العربية. 2- استخدام اللغة العربية للتواصل بفعالية في الأوساط الأكاديمية والمهنية. 3- التعرف على التعبيرات اللغوية والأدبية. 4- إظهار فهم لأهمية مهارات اللغة العربية للنجاح في الهندسة. 5- تطبيق مهارات التفكير النقدي وحل المشكلات في مواقف العالم الحقيقي. 6- يساهم في زيادة معرفة الطلاب بكيفية إعداد التقارير العلمية. Upon completion of this course, students will be able to: 1- Demonstrate proficiency in reading, writing, and speaking to Arabic. 2-Use Arabic to communicate effectively in academic and professional settings 3- Gain an understanding of linguistic and literary expressions 4-Demonstrate an understanding of the importance of Arabic language skills for success in engineering 5-Apply critical thinking and problem-solving skills to real-world situations 6- It contributes to increasing students' knowledge of how to prepare scientific reports.

Indicative Contents المحتويات الإرشادية	Part A: Grammar (12.5 hr) Part B: Reading (12.5 hr) Part C: Writing (12.5 hr) Part D: Speaking (12.5 hr)

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	• تقديم المحاضرات النظرية وتحديد المعلومات الأكثر أهمية من خلال استخلاص الكلمات المفتاحية والأفكار. • يتم منح الطلاب فرصًا لإنتاج اللغة، وتلقي تعليقات مباشرة لتحسين مهاراتهم اللغوية. • Present theoretical lectures and determine the information that is most significant by extracting keywords and ideas. • Students are given opportunities to produce language, and receive direct feedback to improve their language skills.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	30	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	20	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	1
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**50**		

Module Evaluation

تقييم المادة الدراسية

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

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Grammar: Speech and what it consists of: the noun, the verb, and the letter. First: the verb and its parts, its signs, and the past tense. النحو: - الكلام وما يتكون منه: الاسم، والفعل، والحرف. أولاً: الفعل وأجزاؤه، وعلاماته، والفعل الماضي.
Week 2	Grammar: objects of all kinds, adverbs, their types and conditions. Speech and what it النحو: المفاعيل بأنواعها، والحال، وأنواعه وشروطه
Week 3	Literature: poetic text and prose text, study and analysis الأدب: نص شعري ونص نثري دراسة وتحليل
Week 4	Grammar: subject and the news, types of subject and its rulings, definition of the news and its types. النحو: المبتدأ والخبر، أنواع المبتدأ وأحكامه، تعريف الخبر وأنواعه.
Week 5	Spelling: The difference between ḍād, dha, sīn and sūf املاء: الفرق بين الضاد والظاء والسين وسوف.

Week 6	Grammar: Inna and its sisters, the five verbs. النحو: إن و أخواتها، الأفعال الخمسة.
Week 7	Grammar: Plural of the sound masculine and the attached to it. النحو: جمع المذكر السالم والملحق به.
Week 8	Literature: reading and analyzing prose text. الادب: قراءة وتحليل النص النثري.
Week 9	Mid exam
Week 10	Qur'anic texts, lessons in Islamic education, interpretation and rhetorical miracles النصوص القرآنية دروس في التربية الإسلامية والتفسير والإعجاز البلاغي
Week 11	Spelling: Rules for writing Hamza الاملاء: قواعد كتابة الهمزة
Week 12	Spelling: The rules for writing an alif at the end of a word الاملاء: كتابة قواعد كتابة الالف في نهاية الكلمة
Week 13	Grammar: Common linguistic errors النحو: الأخطاء اللغوية الشائعة
Week 14	Grammar: the verbal sentence, the subject and its deputy النحو: الجملة الفعلية والفاعل ونائبه
Week 15	Public lecture and discussions محاضرة و مناقشات عامة
Week 16	**Preparation for the final exam** التهيؤ للامتحان النهائي

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

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	Explanation of Ibn Aqeel on the Alfiyyah of Ibn Malik, edited by Muhyiddin Abdul Hamid شرح ابن عقيل على ألفية ابن مالك، تحقيق محيي الدين عبد الحميد.	
Recommended Texts	Arabic language for non-specialization departments اللغة العربية للاقسام غيرالمختصة	
Websites		

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

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

جدول الساعات المجدولة وغير المجدولة لمادة

Arabic Language

نوع النشاط	الساعات المجدولة SSWL	الساعات غير المجدولة USSWL	عدد الأسابيع	ساعة لكل أسبوع	العبء الكلي للنشاط
محاضرات	محاضرات في القاعات الدراسية		**15**	**2**	**30**
المختبر	دوام المختبر		0	0	0
مناقشات*	المناقشات		0	0	0
مشروع عملي*	مشروع عملي		0	0	0
		التهيئة للمشروع	0	0	0
تحضير الدروس اليومي		تحضير الدروس اليومي	**12**	**1**	**12**
العروض التقديمية*	القاء العرض التقديمي		0	0	0
		التهيئة للعرض التقديمي	1	1	1

الامتحانات اليومية	الامتحان		**0**	**0**	**0**
		التهيئة للامتحانات اليومية	**2**	**1**	**2**
امتحان نصف الفصل	الامتحان		**0**	**0**	**0**
		التهيئة للامتحان	**2**	**1**	**2**
امتحان نهاية الفصل	الامتحان				
		التهيئة للامتحان	**1**	**2**	**2**
			العبء الكلي للمادة خلال الفصل:		**50**
			عدد الوحدات:		**2**
*لا توجد ساعات مجدولة لهذه النشاطات كون تم استيفاؤها ضمن الصفوف الدراسية.					

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Basic of Architectural Design II**			**Module Delivery**	
Module Type	**Core**			☒ **Theory** ☐ **Lecture** ☐ **Lab** ☐ **Tutorial** ☒ **Practical** ☐ **Seminar**	
Module Code	**WARC04**				
ECTS Credits	**9**				
SWL (hr/sem)	**225**				
Module Level		UGI	**Semester of Delivery**		Two
Administering Department		WAR	**College**	College of Engineering	
Module Leader	Husam Sachit Senah		**e-mail**	Email:hsachit@uowasit.edu.iq	
Module Leader's Acad. Title		Assist. Prof.	**Module Leader's Qualification**		Phd. in Architecture Engineering.
Module Tutor	Sarah Majid Musheer		**e-mail**	Email: gl309@uowasit.edu.iq	
Peer Reviewer Name			**e-mail**		
Scientific Committee Approval Date		20\6\2023	**Version Number**	1.0	

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	WARC01, WARC02	**Semester**	One
Co-requisites module	WARS01	**Semester**	Two

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	1) **Understand the concept of human scale in architecture:** Students will learn about the significance of human scale in architectural design, including its impact on the organization of spaces, movement, and activities within a building. They will explore how global measurements, movement patterns, and functional requirements contribute to creating spaces that are suitable for human habitation. 2) **Identify and analyze architectural spaces:** Students will develop skills in identifying and analyzing different types of architectural spaces, such as offices, bedrooms, living rooms, kitchens, bathrooms, etc. They will learn how to assess the functionality and efficiency of these spaces based on their intended use and how they contribute to the overall human scale and organization of relationships within a building. 3) **Study architectural composition and design concepts:** Students will delve into the expressive and symbolic aspects of architectural design. They will learn about architectural composition, design concepts, and how to effectively integrate building materials, structural systems, and architectural spaces to create meaningful and impactful designs. The focus will be on understanding the relationship between the human scale and the architectural environment. 4) **Apply principles of functionality and efficiency in design:** Students will apply principles of functionality and efficiency to the design of studio apartments, home offices, and community garden pavilions. They will explore how to prioritize improving functionality and creating comfortable living environments in studio apartments, seamlessly integrating home offices within residential environments, and designing attractive and functional structures for community spaces. 5) **Create a comprehensive final project:** The final project will serve as a culmination of the module, where students will apply their knowledge of function, shape, movement, site analysis, and other architectural aspects. They will develop a comprehensive study that incorporates the expressive and symbolic elements of design, while also considering architectural composition, building materials, structural systems, the neighborhood context, and the relationship between human scale and the architectural environment.

Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. Demonstrate a comprehensive understanding of the concept of human scale in architecture and its significance in the design process, including its impact on space organization, movement patterns, and activities within a building. 2. Apply analytical skills to identify and assess different types of architectural spaces, evaluating their functionality and efficiency based on intended use and their contribution to the overall human scale and relationships within a building. 3. Utilize knowledge of architectural composition and design concepts to create meaningful and impactful designs, integrating building materials, structural systems, and architectural spaces in a way that considers the relationship between human scale and the architectural environment. 4. Apply principles of functionality and efficiency in the design of specific spaces, such as studio apartments, home offices, and community garden pavilions, with a focus on improving functionality, creating comfortable living environments, and designing attractive and functional structures for community spaces. 5. Develop and present a comprehensive final project that demonstrates the integration of function, shape, movement, site analysis, and other architectural aspects, incorporating expressive and symbolic elements of design. Consider architectural composition, building materials, structural systems, neighborhood context, and the relationship between human scale and the architectural environment in the final project.

Indicative Contents المحتويات الإرشادية	**Indicative content includes the following: -** **Part A–Introduction to Human Scale in Architecture:** Definition and significance of human scale in architecture. Understanding the impact of human scale on space organization, movement patterns, and activities within a building. Historical context and evolution of human scale in architectural design. [50 hrs] **Part B–Analyzing Architectural Spaces:** Identification and assessment of different types of architectural spaces. Evaluation of functionality and efficiency of spaces based on intended use. Examining how architectural spaces contribute to the overall human scale and relationships within a building. Case studies and examples illustrating successful integration of human scale in architectural design. [60hrs] **Part C–Architectural Composition and Design Concepts:** Exploring architectural composition and design principles related to human scale. Integration of building materials, structural systems, and architectural spaces in relation to human scale. Analyzing the relationship between human scale and the architectural environment. Case studies and examples showcasing effective design concepts that consider human scale. [115hrs] These indicative contents provide an overview of the topics covered in the module, including the understanding and application of human scale in architecture, analytical skills for evaluating spaces, knowledge of architectural composition, and the principles of functionality and efficiency in design. Additionally, the module emphasizes the development of a comprehensive final project that integrates various architectural aspects and considers the relationship between human scale and the architectural environment.

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	1. group discussions, debates, and interactive activities: that encourage critical thinking and analysis of architectural concepts pertaining to human scale. 2. a collaborative learning environment is fostered, enabling students to work together in groups or pairs to analyze architectural spaces, evaluate functionality, and discuss the integration of human scale. Peer-to-peer learning is encouraged, allowing students to share insights and learn from each other's perspectives. 3. utilize visual aids like images, diagrams, videos, and virtual tours, which allow them to visualize architectural spaces, analyze components, and grasp the significance of human scale in shaping user experiences. Additionally, design a comprehensive final project that challenges students to apply their understanding of human scale and design principles in a practical context, integrating various architectural aspects, considering the relationship between human scale and the architectural environment, and effectively presenting their design concepts. 4. incorporate field trips or virtual site visits to architectural spaces that demonstrate effective integration of human scale. This experiential approach allows students to directly observe and evaluate how human scale influences spatial organization, movement patterns, and activities within a building, while also encouraging them to document their observations and reflections. Additionally, ensure timely and constructive feedback on students' assignments, projects, and presentations, fostering self-reflection and self-assessment aligned with the principles of human scale. Provide opportunities for students to showcase their learning through presentations or exhibitions, further reinforcing their comprehension and application of the concept.By implementing these learning and teaching strategies, students will develop a strong understanding of human scale in architecture, analytical skills for evaluating spaces, and the ability to apply architectural composition and design concepts effectively. They will also gain insights into the historical context and evolution of human scale, enabling them to make informed design decisions that prioritize the human experience within architectural spaces.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	126	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	8
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	99	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	7
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**225**		

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Quizzes**	1	15%	11	All
	Assignments	1	15%	3	All-
	Projects / Lab.	1	15%	All	All
	Homework	1	5%	All	All
Summative assessment	**Midterm Exam**	6hr	10%		All
	Final Projects	30hr	20%		All
	Final Exam	6hr	30%		All
Total assessment			100%		

Formative assessment: The project (Analysis & Programming Stage, concept & Prelim, Pre-Final) = 40%

Summative assessment: Midterm Exam 10%+ Finalproject 20%+ Final Exam (day-sketch) 30% =60%

Total assessment= 40%+ 60%= 100%

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	**Introduction to Human Scale and Spatial Organization:** Lecture: Understanding the concept of human scale in architecture.
Week 2	Activity: Analyzing global measurements and movement patterns to identify architectural spaces (offices, bedrooms, living rooms, etc.).
Week 3	**Function and Shape Study:** Lecture: Exploring the relationship between function and architectural form.
Week 4	Activity: Analyzing various functional requirements for different spaces (kitchen, bathroom, etc.) and their impact on design.
Week 5	**Site Analysis and Design Concept:** Lecture: Understanding the importance of site analysis in architectural design.
Week 6	Activity: Conducting site visits and documenting relevant factors (sun orientation, views, etc.).
Week 7	**Building Materials and Structural Systems:** Lecture: Exploring different building materials and their impact on design.
Week 8	Activity: Researching and analyzing various structural systems suitable for small-scale buildings.
Week 9	**Architectural Space and Neighborhood Integration:** Lecture: Studying the relationship between architectural space and the surrounding neighborhood.
Week 10	Activity: Conducting a neighborhood analysis to understand its characteristics and context.
Week 11	**Expressive and Symbolic Aspects of Design:** Lecture: Exploring the expressive and symbolic elements in architectural design.
Week 12	Activity: Analyzing case studies of iconic buildings and their design concepts.
Week 13	**Community Garden Pavilion Design:** Lecture: Understanding the design principles for community gathering spaces.
Week 14-15	Activity: Analyzing existing community garden pavilions for inspiration and lessons learned.
Week 16	**Preparatory week before the final Exam**

Delivery Plan (Weekly Practical Syllabus) المنهاج الاسبوعي للجزء العملي	
	Material Covered
Week 1-2	**Introduction to Human Scale and Spatial Organization** – Designing a small residential unit with a focus on optimizing human-scale relationships and functional organization.
Week 3-4	**Function and Shape Study** – Designing a functional and efficient studio apartment that maximizes space utilization and comfort.
Week 5-6	**Site Analysis and Design Concept** – Developing a design concept for a studio apartment considering site-specific factors and design intent.
Week 7-8	**Building Materials and Structural Systems** – Incorporating appropriate building materials and structural systems into the design of the studio apartment.
Week 9-10	**Architectural Space and Neighborhood Integration** – Designing a studio apartment that harmoniously integrates with the surrounding neighborhood and enhances the overall urban fabric.
Week 11-12	**Expressive and Symbolic Aspects of Design** – Integrating expressive and symbolic elements into the design of the studio apartment, reflecting the user's identity and aspirations.
Week 12-15	**Community Garden Pavilion Design** – Designing an attractive and functional community garden pavilion that enhances the visitor experience and accommodates gatherings and events. – The final project will be a culmination of the knowledge and skills acquired throughout the semester, incorporating aspects such as function, shape, movement, site analysis, expressive elements, and the relationship between human scale and the architectural environment.

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	**"Neufert Architects' Data" by Ernst Neufert** This widely used reference book provides essential information on architectural standards, building types, and design guidelines. It includes data on dimensions, measurements, and functional requirements for various spaces and activities, which will be valuable for understanding global measurements, movement, and function in architectural design.	Yes
Recommended Texts	**"Architecture: Form, Space, and Order" by Francis D.K. Ching:** This book provides a comprehensive introduction to the fundamental principles of architectural design, including the concepts of form, space, and order. It covers topics such as scale, proportion, circulation, and spatial relationships, which are relevant to understanding human scale and the organization of architectural spaces. **"101 Things I Learned in Architecture School" by Matthew Frederick**: This book is a concise and informative book that distills key principles and lessons from the world of architecture. With a straightforward and accessible approach, the book serves as a valuable resource for students, aspiring architects, and anyone interested in understanding the fundamentals of architectural design. **"The Poetics of Space" by Gaston Bachelard**: This philosophical exploration of the experience of architectural spaces delves into the emotional and symbolic aspects of design. It examines the significance of spaces such as bedrooms, living rooms, and kitchens, and their impact on human experience. This book can help students understand the expressive and symbolic aspects of architecture, as well as the relationship between architectural spaces and human scale. **"Architectural Design with SketchUp: 3D Modeling, Extensions, BIM**: Rendering, Making, and Scripting" by Alexander Schreyer - This book focuses on the use of digital tools in architectural design, including the analysis of architectural plans and mass models. It covers topics such as spatial relationships, scale, proportion, and design choices, using SketchUp as a platform for visualization and exploration.	Yes
Websites		

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

جدول الساعات المجدولة وغير المجدولة

Basic of Architectural Design II

نوع النشاط	الساعات المجدولة SSWL	الساعات غير المجدولة USSWL	عدد الأسابيع	ساعة لكل أسبوع	العبء الكلي للنشاط
محاضرات	محاضرات في القاعات الدراسية		**15**	**2**	**30**
المختبر	دوام المختبر		**0**	**0**	**0**
مناقشات*	المناقشات		**15**	**2**	**30**
مشروع عملي*	مشروع عملي		15	4	60
		التهيئة للمشروع	15	6	90
تحضير الدروس اليومي		تحضير الدروس اليومي	**0**	**0**	**0**
العروض التقديمية*	القاء العرض التقديمي				
		التهيئة للعرض التقديمي	**1**	**3**	**3**
الامتحانات اليومية	الامتحان		**0**	**0**	**0**
		التهيئة للامتحانات اليومية	**0**	**0**	**0**
امتحان نصف الفصل	الامتحان		**0**	**0**	**0**
		التهيئة للامتحان	**1**	**6**	**6**
امتحان نهاية الفصل	الامتحان		**1**	**6**	**6**

		التهيئة للامتحان	0	0	0
			العبء الكلي للمادة خلال الفصل:		**225**
			عدد الوحدات:		**9**
*لا توجد ساعات مجدولة لهذه النشاطات كون تم استيفاؤها ضمن الصفوف الدراسية.					

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information

معلومات المادة الدراسية

Module Title	**Creative& Drawing Skills I**	**Module Delivery**	
Module Type	**Core**		☒ **Theory** ☐ **Lecture** ☐ **Lab** ☐ **Tutorial** ☒ **Practical** ☐ **Seminar**
Module Code	**WARC05**		
ECTS Credits	**7**		
SWL (hr/sem)	**175**		

Module Level	UGI	**Semester of Delivery**	Two
Administering Department	WAR	**College**	College of Engineering
Module Leader	Husam Sachit Senah	**e-mail**	Email:hsachit@uowasit.edu.iq
Module Leader's Acad. Title	Assist. Prof.	**Module Leader's Qualification**	Phd. in Architecture Engineering.
Module Tutor	Sarah Majid Musheer	**e-mail**	Email: gl309@uowasit.edu.iq
Peer Reviewer Name		**e-mail**	
Scientific Committee Approval Date	10\6\2023	**Version Number**	1.0

Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

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

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Objectives أهداف المادة الدراسية	1. To introduce students to the fundamental principles, techniques, and materials used in manual drawing, specifically in the context of architecture. 2. To develop students' hand control and precision in line drawing through targeted exercises and practice. 3. To provide students with a solid foundation in planning and perspective skills for architectural drawing. 4. To enhance students' understanding and proficiency in shading techniques using graphite pencils, allowing them to create realistic light and shadow effects. 5. To encourage students to explore and develop their creativity by approximating and abstracting free forms and applying perspective techniques.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. Understand different manual drawing materials, their uses, and techniques for working with them. 2. Demonstrate improved hand control and accuracy in line drawing through various exercises. 3. Apply planning skills and perspective principles to create architectural drawings of geometric shapes and structures. 4. Utilize shading techniques effectively with graphite pencils to create light, shadow, and depth in drawings. 5. Apply perspective techniques and creative approaches to approximate free forms and create visually appealing compositions.

Indicative Contents المحتويات الإرشادية	**Indicative content includes the following: -** **Part A**: **Introduction and Fundamentals**: Theoretical: Introduction to manual drawing materials, including types and their uses. Exploring the importance of perspective in drawing geometric shapes. Discussing shading techniques with graphite pencils. Practical: Providing examples of different drawing materials and their specific uses. Demonstrating various drawing techniques. Guided practice for improving hand control in line drawing. Exercises involving cubes and simple shapes to develop planning skills. Demonstrating shading techniques and creating shadow and light effects. [50 hrs] **Part B**: **Perspective Drawing: Theoretical**: Understanding building perspective and its significance in architectural drawing. Explaining two-point and three-point vanishing perspective and their applications in drawings. Discussing interior perspective and its role in portraying indoor spaces. Practical: Drawing buildings using two-point and three-point vanishing perspective techniques. Creating interior perspective drawings and evaluating the composition. Emphasizing scale, proportions, and realistic representation. [75hrs] **Part C**: **Advanced Techniques and Composition**: Theoretical: Emphasizing the importance of rapid sketching and studying the surrounding landscape. Discussing the study of human face portraits and body proportions. Differentiating tree types and utilizing shading techniques. Practical: Creating multiple quick sketches with directional elements, color gradients, and contrast. Practicing the creation of geometric human portraits using colored pencils, focusing on likeness and shading techniques. Drawing various trees and incorporating them into a still life composition. [50 hrs]

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	1. **Hands-on Practice:** Engage students in practical activities to develop their skills. Provide guided practice sessions for line drawing exercises, allowing students to experiment with different techniques and receive feedback on their hand control and precision. Encourage repetition and gradual refinement of skills. 2. **Differentiated Instruction:** Customize the learning experience to meet the unique needs and learning styles of students. Offer a range of manual drawing materials, allowing students to select the ones that best suit them. Provide demonstrations and examples that cater to diverse preferences and interests. 3. **Scaffolded Learning:** Gradually introduce and build upon concepts and skills. Start with the theoretical aspects of planning with graphite pencil, explaining external lines, and directions for drawing cubes. Then, provide practical drawing exercises involving cubes and simple shapes to reinforce planning skills and gradually advance the complexity of the drawings. 4. **Visual and Interactive Learning:** Utilize visual aids, diagrams, and illustrations to enhance understanding of perspective concepts and shading techniques. Incorporate interactive demonstrations and activities that allow students to actively participate in the learning process. Encourage students to observe and analyze still life objects and perspectives. 5. **Portfolio Assessment:** Foster a comprehensive approach to learning and assessment by incorporating the presentation of the student's artistic portfolio. Encourage students to curate their work, showcasing their progress and proficiency in different techniques, compositions, and subjects. Provide feedback and engage in discussions to promote reflection and self-evaluation.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	48	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	3
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	127	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	8.5
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**175**		

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Quizzes**	2	4%	-	-
	Assignments	8%	16%		All
	Projects / Lab.	2%	4%		All
	Homework	8	16%		
Summative assessment	**Midterm Exam**	3hr	10%		All
	Final Projects	6hr	20%		All
	Final Exam	3hr	30%		All
Total assessment			100%		

Formative assessment: The project (Analysis & Programming Stage, concept & Prelim, Pre-Final) = 40%

Summative assessment: Midterm Exam 10%+ Finalproject 20%+ Final Exam (day-sketch) 30% =60%

Total assessment= 40%+ 60%= 100%

elivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Introduction to manual drawing materials: Types of manual drawing materials and their uses are explained. .Techniques for drawing with these materials are discussed
Week 2	Exercises for hand control in line drawing: Drawing horizontal, vertical, diagonal, and perpendicular lines to improve hand control. Exercises designed to enhance hand precision and accuracy in line drawing.
Week 3	Planning stage with graphite pencil: Student exercises focus on drawing cubes using external lines and directions. Learning initial planning skills and practicing drawing simple shapes.
Week 4	Principles of perspective for geometric shapes: Explanation of the concept of perspective and its importance in drawing geometric shapes. Individual exercises that involve drawing various geometric shapes using artistic perspective.

Week 5	Shading with graphite pencils: Techniques for shading with graphite pencils, emphasizing light manipulation. Exercises aimed at enhancing the ability to create shadow and light effects in drawings.
Week 6	Approximation and abstraction of free forms: Techniques for approximating free forms into recognizable geometric shapes. Drawing free forms using perspective techniques and depicting depth in the drawing.
Week 7	Still life perspective drawing: Drawing a perspective view of three or more objects with a composed background. Examining and applying the acquired skills from the previous stages.
Week 8	Building Perspective: Theoretical Perspective: Understanding the concept of building perspective and its significance in architectural drawing, emphasizing the creation of realistic and visually appealing structures.
Week 9	Two-Point Vanishing Perspective: Theoretical Perspective: Explaining the concept of two-point vanishing perspective and its application in architectural drawings, highlighting its ability to create depth and dimension in the artwork.
Week 10	Interior Perspective with Evaluation: Theoretical Perspective: Describing the concept of interior perspective and its role in portraying indoor spaces, focusing on capturing the atmosphere, scale, and details of the interior environment.
Week 11	High-rise Buildings with Three-Point Vanishing: Theoretical Perspective: Introducing the concept of using three-point vanishing perspective in drawing high-rise buildings, emphasizing its usefulness in representing tall structures and their proportions accurately.
Week 12	Rapid Sketching Phase and Studying the Surroundings: Theoretical Perspective: Highlighting the importance of rapid sketching as a preliminary phase, enabling exploration and experimentation, while studying the surrounding landscape to understand its influence on the composition.
Week 13	Human Portrait Study: Theoretical Perspective: Discussing the study of human face portraits, starting with understanding the initial proportions and then progressing to detailed rendering of features, surfaces, and shading. Emphasizing the importance of considering body proportions as well.
Week 14	Drawing Various Trees and Still Life Composition: Theoretical Perspective: Focusing on differentiating tree types based on overall form, leaf textures, and effectively using shading techniques to render their unique characteristics. Additionally, incorporating a still life composition with fruits or flowers.
Week 15	Presentation of the Student's Artistic Portfolio: Assembling all the drawings from the student's art portfolio for the final review and assessment of their progress, showcasing their proficiency in various techniques, compositions, and subject matters.
Week 16	

Delivery Plan (Weekly Practical Syllabus) المنهاج الاسبوعي للجزء العملي	
	Material Covered
Week 1	Introduction to manual drawing materials: Provide examples of different types of manual drawing materials and explain their specific uses. Demonstrate various techniques for drawing with these materials, such as using different strokes and blending.
Week 2	Exercises for hand control in line drawing: Guide students in practicing drawing horizontal, vertical, diagonal, and perpendicular lines using different techniques. Provide exercises that focus on improving hand precision and accuracy through controlled line work.
Week 3	Planning stage with graphite pencil: Assign exercises where students draw cubes using external lines and directions, helping them develop planning skills. Encourage students to practice drawing simple shapes to reinforce their understanding of the planning stage.
Week 4	Principles of perspective for geometric shapes: Teach the concept of perspective and its application in drawing geometric shapes. Provide individual exercises that involve drawing geometric shapes from different angles, emphasizing the use of perspective.
Week 5	Shading with graphite pencils: Demonstrate shading techniques with graphite pencils, showing how to manipulate light and create different shading effects. Assign exercises that focus on shading techniques, allowing students to practice creating shadows and highlights in their drawings.
Week 6	Approximation and abstraction of free forms: Teach techniques for approximating free forms into recognizable geometric shapes using perspective. Guide students in drawing free forms, emphasizing the depiction of depth and applying perspective techniques.
Week 7	Still life perspective drawing: Instruct students to draw a perspective view of three or more objects with a composed background. Encourage students to apply the skills they have acquired in previous stages, including planning, perspective, shading, and form approximation.
Week 8	Building Perspective: Practical Perspective: Demonstrate building perspective by drawing a building using a two-point perspective technique, paying attention to the ground-level area to enhance the overall representation.

Week 9	wo-Point Vanishing Perspective: Practical Perspective: Continuation of the previous drawing by incorporating two-point vanishing perspective, refining the perspective lines to achieve a more accurate and visually engaging depiction.
Week 10	Interior Perspective with Evaluation: Practical Perspective: Creating an interior perspective drawing using two-point vanishing perspective, followed by an examination and evaluation of the composition to analyze the effectiveness of conveying the desired ambiance and spatial qualities.
Week 11	High-rise Buildings with Three-Point Vanishing: Practical Perspective: Drawing the Faculty of Arts building utilizing the three-point vanishing perspective technique, highlighting the verticality and scale of the structure.
Week 12	Rapid Sketching Phase and Studying the Surroundings: Practical Perspective: Engaging in the creation of multiple quick schematic sketches, focusing on the surrounding environment, incorporating directional elements, color gradients, and contrast to distinguish different spaces and achieve visual balance.
Week 13	Human Portrait Study: Practical Perspective: Creating a geometric human portrait from observation, employing colored pencils to capture the subject's likeness and exploring shading techniques to convey three-dimensional form.
Week 14	Drawing Various Trees and Still Life Composition: Practical Perspective: Drawing multiple tree specimens, utilizing colored pencils to convey their distinctive forms and textures accurately. Creating a still life composition alongside the trees and evaluating the overall composition.
Week 15	Presentation of the Student's Artistic Portfolio: Assembling all the drawings from the student's art portfolio for the final review and assessment of their progress, showcasing their proficiency in various techniques, compositions, and subject matters.
Week 16	

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	**"Drawing Materials and Techniques" by Philip Tyler** This book provides an in-depth exploration of different manual drawing materials and their specific uses. It covers a range of drawing techniques, strokes, and blending methods.	Yes

Recommended Texts	**"The Art of Line Drawing: A Practical Guide to Mastering the Elements of Sketching" by Thomas Wang:** This book focuses on developing hand control in line drawing. It offers theoretical insights into techniques for drawing different types of lines and exercises to enhance precision and accuracy. **"Perspective Drawing Handbook" by Joseph D'Amelio:** This handbook covers the theoretical aspects of perspective drawing, including principles of perspective for geometric shapes. It also provides practical guidance on drawing geometric shapes from various angles using perspective techniques. **"The Complete Guide to Shading and Drawing Techniques" by Giovanni Civardi:** This comprehensive guide explores theoretical concepts and techniques for shading with graphite pencils. It teaches light manipulation and offers practical demonstrations and exercises to create shadow and light effects. **"Freehand Sketching: An Introduction" by Paul Laseau:** This book delves into the theoretical and practical aspects of approximating free forms into recognizable geometric shapes. It guides students in using perspective techniques to create depth and abstraction in their drawings.	Yes
Websites		

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

جدول الساعات المجدولة وغير المجدولة Creative & Drawing Skills I

نوع النشاط	الساعات المجدولة SSWL	الساعات غير المجدولة USSWL	عدد الأسابيع	ساعة لكل أسبوع	العبء الكلي للنشاط
محاضرات	محاضرات في القاعات الدراسية		15	1	15
المختبر	دوام المختبر		0	0	0
مناقشات*	المناقشات		0	0	0
مشروع عملي*	مشروع عملي		15	2	30
		التهيئة للمشروع	15	5	75
تحضير الدروس اليومي		تحضير الدروس اليومي	15	1	15
العروض التقديمية*	القاء العرض التقديمي		0	0	0
		التهيئة للعرض التقديمي	7	2	14
الامتحانات اليومية	الامتحان		0	0	0
		التهيئة للامتحانات اليومية	1	3	3
امتحان نصف الفصل	الامتحان				
		التهيئة للامتحان	1	10	10
امتحان نهاية الفصل	الامتحان		1	3	3
		التهيئة للامتحان	1	10	10
			العبء الكلي للمادة خلال الفصل:		**175**
			عدد الوحدات:		**7**
*لا توجد ساعات مجدولة لهذه النشاطات كون تم استيفاؤها ضمن الصفوف الدراسية.					

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information

معلومات المادة الدراسية

Module Title	**Computer Applications I**	**Module Delivery**	
Module Type	Core		☒**Theory** ☐ **Lecture** ☒ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**
Module Code	**WARC06**		
ECTS Credits	**5**		
SWL (hr/sem)	**125**		

Module Level	UGI	**Semester of Delivery**	Two
Administering Department	WAR	**College**	College of Engineering
Module Leader	Zainab Jaber Mohammed	**e-mail**	gl308@uowasit.edu.iq
Module Leader's Acad. Title	Lecturer	**Module Leader's Qualification**	Ph.D. in Information and Communication Eng.
Module Tutor		**e-mail**	
Peer Reviewer Name		**e-mail**	
Scientific Committee Approval Date		**Version Number**	1.0

Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

Prerequisite module	None	**Semester**	None
Co-requisites module	Computer Application I	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	5. Giving the student a general idea of computer material at a study environment, library, and at home. 6. Giving the student knowledge about the basic principles of the use of architectural programs. 7. Developing the student's skills on computer and its various applications, with the addition of some engineering applications that benefit the architecture student in his advanced stages (such as SkechUp program) with the aim of facilitating the student's work and providing him with the appropriate tools to express his ideas in a technical way. 8. Enable the student to plan and architectural projects. 9. Enabling the student to keep pace with the existing technological change and development.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	7. Knowing and understand the use of architectural programs. 8. Converting drawn ideas and plans into projects that can be developed through the SketchUp program. 9. Converting 2D charts with their details to 3D. 10. Draw architectural plans and projects related to interior design, facades and landscapes. 11. Rendering architectural projects to transform them from a drawn image into a realistic one. 12. Directing and displaying architectural project plans with the best output through Layout.

Indicative Contents المحتويات الإرشادية	Part A (10 hr) Introduction to Skech up program (producing company - installation resources - definition of the program interface). Part B (20 hr) The use of the main tools bar (large tool set -Draw tools). Part C (20 hr) Applying the use of the tools. Part D (25 hr) The use of V-Ray plugin, and its use to render the project. Part E (75hr) Modeling an architectural project by using plan, an architectural elevation and project for interior design.

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	5. Using computers and display screens to explain lectures to students to increase students' mental comprehension. 6. Practical application in the computer lab of what was explained in the theoretical lecture. 7. Using direct questions in the classroom as brainstorming skills. 8. Encouraging students to solve class and homework assignments and to perform specialized reports.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	90	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	6
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	35	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	2.3
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**125**		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	2	10% (5)	5 and 9	All
	Assignments	1	10% (10)	Continuous	All
	Projects / Lab.	1	10% (10)	12	All
	Homework	1	10%	Continuous	All
Summative assessment	**Midterm Exam**	2hr	10% (10)	7	All
	Final Exam	3hr	50% (50)	16	All
Total assessment			100		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Introduction to Sketchup Program (producing company - installation resources - definition of the program interface)
Week 2	Explain the tools of view bar, Styles.
Week 3	Explain the main tools bar (large tool set -Draw tools).
Week 4	Explain the main tools bar (large tool set -Modification tools and Inference points)
Week 5	Explain the use of (Make component and Make group)
Week 6	Explain the main tools bar (large tool set -Construction bar, Tape measure, Text and 3D text)
Week 7	Explain the main tools bar (large tool set -Camera, General principles)
Week 8	Explain the add of Plugins and its use. Explain the default tray and its use, Shadow and fog and add scenes.
Week 9	Applying the use of the tools that were explained in the previous lectures by modeling architectural composition.
Week 10	Modeling architectural project for interior design.
Week 11	Modeling architectural project by using plan.
Week 12	Modeling architectural project by using an architectural elevation.
Week 13	Explain the use of V-Ray plugin, and its use to render the project.
Week 14	Explain Layout program and its uses in output and manifesting architectural projects.
Week 15	**Review and a preparatory week before the Final Exam**
Week 16	Final Exam

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	Introduction to Sketchup Program (producing company - installation resources - definition of the program interface)
Week 2	Explain the tools of view bar, Styles.
Week 3	Explain the main tools bar (large tool set -Draw tools).
Week 4	Explain the main tools bar (large tool set -Modification tools and Inference points)
Week 5	Explain the use of (Make component and Make group)
Week 6	Explain the main tools bar (large tool set -Construction bar, Tape measure, Text and 3D text)
Week 7	Explain the main tools bar (large tool set -Camera, General principles)
Week 8	Explain the add of Plugins and its use. Explain the default tray and its use, Shadow and fog and add scenes.
Week 9	Applying the use of the tools that were explained in the previous lectures by modeling architectural composition.
Week 10	Modeling architectural project for interior design.
Week 11	Modeling architectural project by using plan.
Week 12	Modeling architectural project by using an architectural elevation.
Week 13	Explain the use of V-Ray plugin, and its use to render the project.
Week 14	Explain Layout program and its uses in output and manifesting architectural projects.

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	Google SketchUp for Dummies, Aidan Chopra.	
Recommended Texts		
Websites	- www.sketchup.com - www.youtube.com/user/SketchUpVideo	

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

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

جدول الساعات المجدولة و غير المجدولة لمادة

Computer Applications I

نوع النشاط	الساعات المجدولة SSWL	الساعات غير المجدولة USSWL	عدد الأسابيع	ساعة لكل أسبوع	العبء الكلي للنشاط
محاضرات	محاضرات في القاعات الدراسية		15	2	30
المختبر	دوام المختبر		15	4	60
مناقشات	المناقشات		0	0	0
مشروع عملي	مشروع عملي		0	0	0
		التهيئة للمشروع	1	4	4
انجاز الواجب البيتي		تحضير المشاريع البيتية	5	2	10
العروض التقديمية	القاء العرض التقديمي		0	0	0
		التهيئة للعرض التقديمي	0	0	0
الامتحانات اليومية		التهيئة للامتحانات اليومية	5	1	5
امتحان نصف الفصل	الامتحان		0	0	0
		التهيئة للامتحان	1	5	5
امتحان نهاية الفصل	الامتحان		1	3	3
		التهيئة للامتحان	1	8	8
			العبء الكلي للمادة خلال الفصل:		125
			عدد الوحدات:		5

*لا توجد ساعات مجدولة لهذه النشاطات كون تم استيفاؤها ضمن الصفوف الدراسية.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information

معلومات المادة الدراسية

Module Title	**Building Materials**	**Module Delivery**	
Module Type	Core		☒ **Theory**
Module Code	**WARC07**		☐ **Lecture**
ECTS Credits	**5**		☐ **Lab**
SWL (hr/sem)	**125**		☐ **Tutorial**
			☐ **Practical**
			☐ **Seminar**
Module Level	UGI	**Semester of Delivery**	Two
Administering Department	WAR	**College**	College of Engineering
Module Leader	Alaa Sabeh Taeh	**e-mail**	Email: alaataeh@uowasit.edu.iq
Module Leader's Acad. Title	Lecturer	**Module Leader's Qualification**	Ph.D. in Material Eng.
Module Tutor		**e-mail**	
Peer Reviewer Name		**e-mail**	
Scientific Committee Approval Date		**Version Number**	1.0

Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

Prerequisite module	NON	**Semester**	
Co-requisites module	Building constructer I	**Semester**	3

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Objectives أهداف المادة الدراسية	1- The objective of this course is to introduce the subject of building materials technology. Some of the main topics that student will learn during the course: (Classification, composition, properties, uses, standard tests and specifications) of Metal, clay bricks, timber, bonding materials and plastics. 2- Learn about structure andtypesofmatter. 3- Learnstandard testsand main properties (mechanical properties)of Materials. 4- Learn classification, composition, properties, uses, standard tests and specifications of Metal. 5- Learn classification, composition, properties, uses, standard tests and specifications of bricks. 6- Learn classification, chemical composition, manufacture, properties and uses of common bonding materials.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1- The student knows the basic concepts and methods that apply to the technology of building materials. 2- Describe the basic definition, atomic structure, and types of bonding. 3- Identify the metallic and nonmetallic materials, ceramic materials. 4- The student can solve exercises related to the calculation of stresses and deformations in the materials. 5- The student will demonstrate an ability to visually identify and develop solutions to materials problems .stress, deformation, strain, toughness, thermal properties, tensile,compressive,flexural,torsion, impact, creeps. 6- The ability to find solutions to problems that may occur during work. 7- By the end of the year, the student should be able to demonstrate the ability to explain the skills related to engineering materials.
Indicative Contents المحتويات الإرشادية	Part A (14hr) Introduction to structure of matter, and types. Part B (33hr) Mechanical properties and tests. Part C (14 hr) Tribology properties and Tests. Part C (39hr) Types and example of building material.

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	1- Explain the theoretical lectures that include presentations using the available projectors in class. 2- Encouraging the students to have discussions in class to improve student's skills. 3- Use direct questions inside the class as brainstorming skills. 4- Encouraging the students to perform specialized reports or seminars. 5- Make a review for the last explained topics by quick exams and direct questions for students.

Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

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

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Quizzes**	5	20% (4)	3, 5, 7,11, and 13	All
	Assignments	2	2%(1)	continues	All
	Homework	3	3%(1)	continues	All
	Report	1	15% (15)	continues	All
	Midterm Exam	2 hr	10% (10)	9	

Summative assessment	**Final Exam**	3 hr	50% (50)		
Total assessment			100% (100)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Introduction to structure of matter - Definition. - Atomic structure. - Types of bonding.
Week 2	Types of materials - Metallic and nonmetallic materials. - Polymer materials. - Ceramic materials.
Week 3	Mechanical properties of materials - Stress, strain, Hooke's law general expression for strain. - Toughness, ductility, and thermal properties.
Week 4	Mechanical properties of materials - Hardness and types.
Week 5	Tests - Tensile. - Compressive flexural.
Week 6	Tests - Impact. - Hardness.
Week 7	Test - Creep. - fatigue strength

Week 8	Tribology properties - Corrosion - Wear. - Friction.
Week 9	Tribology properties tests
Week 10	Metal and non-metal alloy
Week 11	Clay bricks, ceramic and concert.
Week 12	Timber
Week 13	Bonding materials, Plastics
Week 14	Midterm Exam.
Week 15	**Preparatory week before the final Exam**
Week 16	**Final Exam.**

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Alternative Building Materials Technology, K. S. Jagadish · 2008	No
Recommended Texts	Building Materials and Construction, Misra, Anil Kumar · 2018	No

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

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

جدول الساعات المجدولة و غير المجدولة لمادة

Building Materials

نوع النشاط	الساعات المجدولة SSWL	الساعات غير المجدولة USSWL	عدد الأسابيع	ساعة لكل أسبوع	العبء الكلي للنشاط
محاضرات	محاضرات في القاعات الدراسية		15	4	60
المختبر	دوام المختبر		0	0	0
مناقشات	المناقشات		0	0	0
مشروع عملي	مشروع عملي		0	0	0
		التهيئة للمشروع	0	0	0
تحضير الدروس اليومي		تحضير الدروس اليومي	15	2	30
التقارير	التقرير الفصلي		0	0	0
		التهيئة للتقرير	13	1	13
الامتحانات اليومية		التهيئة للامتحانات اليومية	5	1	5

امتحان نصف الفصل	الامتحان		0	0	0
		التهيئة للامتحان	1	6	6
امتحان نهاية الفصل	الامتحان		1	3	3
		التهيئة للامتحان	1	8	8
			العبء الكلي للمادة خلال الفصل:		125
			عدد الوحدات:		5
*لا توجد ساعات مجدولة لهذه النشاطات كون تم استيفاؤها ضمن الصفوف الدراسية.					

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Academic English 1**			**Module Delivery**	
Module Type	**Basic**			☒ **Theory** ☐ **Lecture** ☐ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**WU02**				
ECTS Credits	**2**				
SWL (hr/sem)	**50**				
Module Level	UGI		**Semester of Delivery**	Two	
Administering Department	WAR		**College**	Engineering	
Module Leader			**e-mail**		
Module Leader's Acad. Title	Lecturer		**Module Leader's Qualification**	PhD	
Module Tutor	Hala A.Naman AL Taee		**e-mail**	haltaee@uowasit.edu.iq	
Peer Reviewer Name	• Ismail Sharhan Hburi • Ahmed Adel Naji		**e-mail**	• isharhan@uowasit.edu.iq • ahmedadil@uowasit.edu.iq	

	• Ali Faraj Hammadi		• alifaraj @uowasit.edu.iq
Scientific Committee Approval Date	9-11-2023	**Version Number**	1.0

Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

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

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Aims أهداف المادة الدراسية	This module provides all the language and skills students need to improve their English, with grammar, vocabulary, and skills work in every unit. The aim is represented by the module's trusted methodology combines solid grammar and practice, vocabulary development, and integrated skills.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1- Demonstrate understanding of academic texts and summarize them orally and in writing. 2- Demonstrate an ability to write with a fair degree of accuracy in a variety of genres. 3- cope effectively with everyday situations everywhere in English 4- Demonstrate learner independence and be aware of their own linguistic strengths and weaknesses. 5- Participate in discussions/seminars on a variety of subject related, academic and general topics.
Indicative Contents المحتويات الإرشادية	12.5 hrs : Reading Skills 12.5 hrs : Writing Skills 12.5 hrs : Listening Skills 12.5 hrs : Speaking Skills

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	Reading a range of pre-intermediate level articles on selected general topics. Writing a topic (informal emails, e.g.,) to classmates to discuss group work. Writing and submitting an assignment to a lecturer, Writing slides for presentations. Listening to

	authentic material at the beginner level to develop listening skills and comprehension. For Speaking, students may self-select and discuss topics with classmates on a group project. Typical topics that could be used at this level in the teaching of vocabulary include The World Around Us (Countries, Nationality, Language, Physical world, Weather, etc.). It may be appropriate for students to select grammar points for discussion in class, or for the lecturer to select them as they arise in students' writing. Grammar points that typically arise at this level include present simple and past simple; present continuous; question forms and auxiliary verbs; comparison; word order; prepositions; basic phrasal verbs.

Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (hr/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	33	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	17	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	1.3
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	50		

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Quizzes**	1	10%(10)	6	LO 1, LO2
	Home work	1	15%(15)	5	LO2

	Online Assignment	1	5%		
	Seminar	1	10%(10)	-	-
Summative assessment	**Midterm Exam**	1	10%	6,12	All
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Unit.1 Hello!
Week 2	Unit.2 Your world
Week 3	Unit.3 All about you
Week 4	Unit.4 Family and friends
Week 5	Unit.5 The way I live
Week 6	Unit.6 Every day
Week 7	Unit.7 My favorites
Week 8	Unit.8 Where I live
Week 9	Unit.9 Times past
Week 10	Unit.10 We had a great time!
Week 11	Unit.11 I can do that!
Week 12	Unit.12 Please and thank you
Week 13	Unit.13 Here and now
Week 14	Unit.14 It's time to go!

Week 15	**Presentation (seminars)**
Week 16	**Preparatory week before the final Exam**

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

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	New headway beginner student book	Yes
Recommended Texts	Murphy R English Grammar in Use	No
Websites	https://apoyanblog.files.wordpress.com/2017/08/new_headway_beginner_-_student	

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

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

جدول الساعات المجدولة وغير المجدولة لمادة

Academic English I

نوع النشاط	الساعات المجدولة SSWL	الساعات غير المجدولة USSWL	عدد الأسابيع	ساعة لكل أسبوع	العبء الكلي للنشاط
محاضرات	محاضرات في القاعات الدراسية		**15**	**2**	**30**
المختبر	دوام المختبر		0	0	0
مناقشات*	المناقشات		0	0	0
مشروع عملي*	مشروع عملي		0	0	0
		التهيئة للمشروع	0	0	0
تحضير الدروس اليومي		تحضير الدروس اليومي	**8**	**1**	**8**
العروض التقديمية*	القاء العرض التقديمي		0	0	0

		التهيئة للعرض التقديمي	0	0	0
الامتحانات اليومية	الامتحان				
		التهيئة للامتحانات اليومية	**2**	**1**	**2**
امتحان نصف الفصل	الامتحان				
		التهيئة للامتحان	**1**	**2**	**2**
امتحان نهاية الفصل	الامتحان		**1**	**3**	**3**
		التهيئة للامتحان	**1**	**5**	**5**
			العبء الكلي للمادة خلال الفصل:		**50**
			عدد الوحدات:		**2**
*لا توجد ساعات مجدولة لهذه النشاطات كون تم استيفاؤها ضمن الصفوف الدراسية.					

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Human rights and Democracy**			**Module Delivery**	
Module Type	**Basic**			☒ **Theory**	
Module Code	WU04			☐ **Tutorial**	
ECTS Credits	2			☐ **Practical**	
SWL (hr/sem)	**50**			☐ **Seminar**	
Module Level	UGI		**Semester of Delivery**	Two	
Administering Department	WAR		**College**	College of Engineering	
Module Leader	Aliaa Kadim Jabr		**e-mail**	Aliaa.kadim@uowasit.edu.iq	
Module Leader's Acad. Title	Asst.Lecturer		**Module Leader's Qualification**	Msc	
Module Tutor			**e-mail**		
Peer Reviewer Name			**e-mail**	None	
Scientific Committee Approval Date	20/06/2023		**Version Number**	1.0	

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

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	A- Cognitive goals 1- Acquiring the skill of distinguishing between states' relations with their citizens. 2- Dealing with the concept of human rights. 3- Acquisition of knowledge in dealing with problems affecting those rights. 4- Gaining knowledge of the origins and roots of human rights. 5- Reaching knowledge of the practical application of human rights. 6- Developing the student's ability to perform assignments and deliver them on time. 7- Logical thinking to find solutions to the problems facing students in society, especially with the increase in societal problems such as domestic violence, electronic extortion, and the spread of drug abuse. The Iraqi and the extent of his demand for the maintenance and preservation of those rights. 8- View the data on the Iraqi constitution and the extent to which it is required to maintain and preserve those rights.

Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1- Graduating a generation that is aware, educated, and aware of its duties as an individual in society and the state, and its rights in exchange for those duties. 2- Developing in society a culture of respect for the other, regardless of his beliefs, personal inclinations, attitudes, and societal behaviors. 3- Referring first and foremost to the law regarding any offensive phenomena that may prevail in the work environment. 4- Developing the student's ability to dialogue and discussion. 5- It has a major role in analyzing emerging problems in society. 6- It contributes to increasing students' knowledge of how to prepare scientific reports.
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. 1- Developing the student's ability to deal with societal problems. 2- Developing the student's ability to deal with the analysis of laws and the mechanisms of their application. 3- Developing the student's ability to deal with the multiple means available in the work environment. 4- Developing the student's ability to dialogue and discussion. 5- Developing the student's ability to employ his study tools as practical tools in the work environment. 6- Developing the ability to harmonize between the different conditions that prevail in the work atmosphere in proportion to the ability of the labor market to absorb the different conditions.

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	1- Managing the lecture in such a way that the student feels the importance of time. 2- Assigning the student some group activities and duties. 3- Allocate a percentage of the grade for group activities. 4- Developing the topic of group campaigns that shed light on negative societal phenomena and the role of students as active individuals in society. 5- Active participation in the classroom is evidence of the student's commitment and responsibility. 6 Commitment to the deadline for submitting the assignments and reports required of the student to submit them. 7- Quarterly and final exams reflect commitment and knowledge and skill achievement.

Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	33	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	17	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	1
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**50**		

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Quizzes**	2	20% (20)	5 and 10	LO #1, #2 and #10, #11

	Assignments	1	5% (5)	2 and 12	LO #3, #4 and #6, #7
	Homework	1	5%		
	Report	1	10% (10)	13	LO #5, #8 and #10
Summative assessment	**Midterm Exam**	2hr	10% (10)	7	LO #1 - #7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	The nature of human rights.
Week 2	Human rights in Islam.
Week 3	Human rights in modern political thought.
Week 4	Human rights in contemporary political thought.
Week 5	Human rights in international conventions
Week 6	Human rights in the Iraqi constitution in force
Week 7	Human rights violations in multiple experiences with the Universal Declaration of Human Rights
Week 8	Legal rights in the International Covenant on Civil and Political Rights
Week 9	Types of rights mentioned in the Iraqi constitution in force with the provisions of the Iraqi constitution related to rights and freedoms
Week 10	The historical development of the concept of democracy in the civilization of the Mesopotamia Greek civilization and Roman civilization.
Week 11	The difference between freedom and democracy

Week 12	Islamic views in the democratic system of government
Week 13	Forms of democracy and conditions for the success of the democratic system
Week 14	Elements and pillars of the democratic system
Week 15	**Preparatory week before the final Exam**

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	Human rights book, Dr. Taha Hamid Hassan	Yes
Recommended Texts	Human rights book, Dr. Hamid Hanoun	No
Websites	Human rights book by Dr. Riyad Al-Hadithi https://www.google.com/search?q=https%	

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

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

جدول الساعات المجدولة و غير المجدولة لمادة

Human rights and Democracy

العبء الكلي للنشاط	ساعة لكل أسبوع	عدد الأسابيع	الساعات غير المجدولة USSWL	الساعات المجدولة SSWL	نوع النشاط
30	2	15		محاضرات في القاعات الدراسية	**محاضرات**
				دوام المختبر	**المختبر**
0	0	0		المناقشات	**مناقشات**
0	0	0			**واجب بيتي**
2	1	2	التهيئة للواجب البيتي		
3	1	3	تحضير التقرير		**انجاز التقرير**

العروض التقديمية	القاء العرض التقديمي		0	0	0
		التهيئة للعرض التقديمي	0	0	0
الامتحانات اليومية		التهيئة للامتحانات اليومية	2	1	2
امتحان نصف الفصل	الامتحان		0	0	0
		التهيئة للامتحان	1	4	4
امتحان نهاية الفصل	الامتحان		1	3	3
		التهيئة للامتحان	1	6	6
			العبء الكلي للمادة خلال الفصل:		50
			عدد الوحدات:		2

*لا توجد ساعات مجدولة لهذه النشاطات كون تم استيفاؤها ضمن الصفوف الدراسية.

MODULE DESCRIPTION FORM_2nd Stage

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Architectural Design I**			**Module Delivery**	
Module Type	**Core**			**☒Theory** **☐ Lecture** **☐ Lab** **☐ Tutorial** **☒Practical** **☐ Seminar**	
Module Code	**WARC08**				
ECTS Credits	**9**				
SWL (hr/sem)	**225**				
Module Level	UGII		**Semester of Delivery**	Three	
Administering Department	WAR		**College**	College of Engineering	
Module Leader	Rabee Jameel Al-Shammari		**e-mail**	rabee.jameel @uowasit.edu.iq	
Module Leader's Acad. Title	Lecturer Dr.		**Module Leader's Qualification**	Ph.D. in Arch Eng.	
Module Tutor	Wasan Jawad Ubaid AL-Ghiribawi		**e-mail**	gl307@uowasit.edu.iq	
Peer Reviewer Name			**e-mail**		
Scientific Committee Approval Date	20\9\2024		**Version Number**	1.0	

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	WARC04	**Semester**	One
Co-requisites module	WARC012	**Semester**	Two
Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية			
Module Objectives أهداف المادة الدراسية	1. **Introducing what architecture:** is (utility, durability and beauty), and emphasizing the concept of local privacy and integration with the urban context and landscape. 2. **Developing the student's ability** to form an initial idea of the project's direction and the interdependence of its sections on the one hand, and expanding his perceptions in a way that is compatible with achieving the optimal design on the other hand, by dealing with many functional, environmental and construction requirements. 3. **Clarify the job processors** and extract the approved design criteria, in addition to identifying the formal patterns of the project. 4. **Preparing signature and assembly plans** and some of the main components, as well as getting acquainted with the design principles of specialized buildings. 5. **Taking into account the role of the relationship in the design between the inside and the outside,** which is responsible for drawing the attention of the recipient and his sense of fascination. On the other hand, it will affect the integration of spaces of different sizes within the building. 6. Determine the functional and environmental determinants in the design process, especially in the application of local architecture. 7. Preparing the student to enter the world of architecture intellectually, conceptually and practically as a basic work base. 8. Developing the student's language of expression through developing the artistic and formative sense and the analytical-synthetic thinking style.		
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. Enable students to know what architecture is, in addition to identifying the types of architectural ideas. 2. Enabling students to analyze, install, and evaluate processes by studying architectural plans and models to understand relationships and spaces, and applying this knowledge to their projects. 3. Students will develop communication and presentation skills to convey architectural ideas clearly and confidently, both verbally and visually. 4. The ability to draw different shapes and configurations, and express them in two- and three-dimensional formats, in addition to how architectural models work. 5. The ability to express and participate in the defense of architectural ideas and designs prepared by the student.		

Indicative Contents المحتويات الإرشادية	The indicative content includes:- **First:**Mastering how to conduct an analytical study of architectural projects, with a focus on analyzing architectural plans and models to understand spatial relationships and spaces, and applying them in the processes of ideas. [30 hrs] **Second:**Recognizing the concept of the architectural idea and exploring its types, how it is generated and the possibility of applying it in projects, and how to transfer ideas to paper in the form of architectural plans in a creative way. [40 hrs] **Third:**Develop communication and presentation skills to convey architectural ideas effectively, both verbally and visually. [35 hrs] **Fourth**: Developing the student's awareness of spaces, movement paths, functional relationships between them, and realizing the space spaces of the project. [90 hrs] **Fifth**: Developing composition skills and various formations that depend on the sensory and skillful abilities of the student, through trial and error attempts as an educational methodology in architecture.[30 hrs]

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	1. Giving lectures, demonstrations, and visual analysis to present and explain architectural ideas, while clarifying their practical application in architectural plans and models. 2. Allocate sufficient time in the studio for students to create architectural models, using learned design elements and principles. 3. Organize field trips to architectural sites, exposing students to real-life examples of spatial relationships and composition. 4. Exposure to collective criticism processes to enhance the architectural concepts of students and encourage them in the presentation processes of their projects.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	8	**Structured SWL (h/sem)** الحمل الدراسي المنتظم للطالب خلال الفصل	126
Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	7	**Unstructured SWL (h/sem)** الحمل الدراسي غير المنتظم للطالب خلال الفصل	99
		Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**225**

Module Evaluation
تقييم المادة الدراسية

As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes(Analysis)	8hr/2	5%	2	All
	Assignments(Concept)	16hr/4	10%	2	All
	Projects / Lab.	60hr/ 5	20%	10	All
	Report(Prefinal)	6hr /1	5%	1	All
Summative assessment	Midterm Exam(Day sketch)	8hr/2	10%	1	All
	Final Projects	20hr/1	35%	1	All
	Final Exam	8hr/1	15%	-	All
Total assessment			100%	-	

Formative assessment: The project (Analysis & Programming Stage, concept & Prelim, Pre-Final) = 40%
Summative assessment: Midterm Exam 10%+ Final project 20%+ Final Exam (day-sketch) 30% =60%
Total assessment= 40%+ 60%= 100%

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي النظري

Week	Material Covered
Week 1	**Part 1 : General introduction to the site analysis method:** Description of the chosen site and an explanation of the most important differences between the reality of the proposed area for the project and the basic design, a study of the climate and its impact on the design (wind - temperature - rain - relative humidity - earthquakes) in addition to the movement of the sun and its impact on the site **Part 2 : Study of functional relationships , How to study movement, How to calculate project areas:** General functional relations . Special functional relationships for each part of the project Vertical movement: This includes stairs, elevators, and escape stairs . Horizontal movement: It includes movement within the corridors and their specifications, movement within the project and its types, Calculate the area of the partitions . Calculate the area of the secondary parts complementing the project . The general area table of the project . Study the parking space . **Part 3 : How to analyze a group of local and global examples:** In it, the functional style of these models is identified, and the movement used in the project is determined, as well as an analysis of how to deal with interfaces and ways of expressing the design idea.
Week 2	
Week 3	**sketches and design ideas:** This helps students strengthen communication and presentation skills in conveying architectural ideas effectively, and how to express their artistic choices and design concepts in a clear and concise manner, both verbally and visually.
Week 4	

Week 5	**Spatial Planning and Layout Design:** Analyzing and planning the spatial organization of the Aldar residential project, taking into account factors such as privacy, the presence of external activities such as a small playground or swimming pool, as well as interest in the proportions of spaces, and the development of floor plans and schematic sections.
Week 6	**Architectural details in the plans:** Focusing on the design aspects of the architectural scheme for multi-purpose halls, addressing sound, lighting, ventilation and accessibility requirements, and incorporating technical details into design development.
Week 7	**Design Architecture of Elevation :** Learn how to design architectural facades, and what are the most important elements that suit each project, by presenting a lecture on designing architectural facades.
Week 8	**Day sketch project:** Exam title: A sketch of a small project, or something that fits the vocabulary of the syllabus. Exam Description: During this exam, students will be given a specific design brief to create a diagram, interfaces, and sections. The purpose of this test is to assess students' ability to apply the knowledge and skills gained throughout the unit in creating an initial design concept.
Week 9	**Design Architecture of Section :** The sections describe the vertical relationships and help define the spatial characteristic of the building, the segmented figure shows the façade relationships in the voids .
Week 10	**Project design as a 3D model:** Create three-dimensional models using different materials, wood or cork, and other materials to give a sense of interaction between blocks and voids.
Week 11	**perspective drawing** Help the designer create depth, distance, and creativity. Three-dimensional images that appear on a two-dimensional surface. They provide an excellent graphic method for visualizing architectural design ideas.
Week 12	**Design Development and Refinement** Continuing the design development process based on feedback and critique sessions. Refining the architectural concept, spatial layout, and technical details. Creating 3D models, renderings.
Week 13	
Week 14	**Presentation and Finalization**: Prepare final presentation materials presenting the residential house design, presenting the design concept, spatial layout, and technical details of the horizontal and vertical plans. Completion of architectural drawings, presentations and documentation of the project.
Week 15	**Preparatory week before the final Exam**
Week 16	**Final Exam**
Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي العملي	
Week	**Material Covered**

Week 1	**Part 1 : General introduction to the site analysis method:** Description of the chosen site and an explanation of the most important differences between the reality of the proposed area for the project and the basic design, a study of the climate and its impact on the design (wind - temperature - rain - relative humidity - earthquakes) in addition to the movement of the sun and its impact on the site **Part 2 : Study of functional relationships , How to study movement, How to calculate project areas:** General functional relations . Special functional relationships for each part of the project Vertical movement: This includes stairs, elevators, and escape stairs . Horizontal movement: It includes movement within the corridors and their specifications, movement within the project and its types, Calculate the area of the partitions . Calculate the area of the secondary parts complementing the project . The general area table of the project . Study the parking space . **Part 3 : How to analyze a group of local and global examples:** In it, the functional style of these models is identified, and the movement used in the project is determined, as well as an analysis of how to deal with interfaces and ways of expressing the design idea.
Week 2	
Week 3	**sketches and design ideas:** This helps students strengthen communication and presentation skills in conveying architectural ideas effectively, and how to express their artistic choices and design concepts in a clear and concise manner, both verbally and visually.
Week 4	
Week 5	**Spatial Planning and Layout Design:** Analyzing and planning the spatial organization of the Aldar residential project, taking into account factors such as privacy, the presence of external activities such as a small playground or swimming pool, as well as interest in the proportions of spaces, and the development of floor plans and schematic sections.
Week 6	**Architectural details in the plans:** Focusing on the design aspects of the architectural scheme for multi-purpose halls, addressing sound, lighting, ventilation and accessibility requirements, and incorporating technical details into design development.
Week 7	**Dsign Architecture of Elevation :** Learn how to design architectural facades, and what are the most important elements that suit each project, by presenting a lecture on designing architectural facades.
Week 8	**Day sketch project:** Exam title: A sketch of a small project, or something that fits the vocabulary of the syllabus. Exam Description: During this exam, students will be given a specific design brief to create a diagram, interfaces, and sections. The purpose of this test is to assess students' ability to apply the knowledge and skills gained throughout the unit in creating an initial design concept.
Week 9	**Dsign Architecture of Section :** The sections describe the vertical relationships and help define the spatial characteristic of the building, the segmented figure shows the façade relationships in the voids .
Week 10	**Project design as a 3D model:** Create three-dimensional models using different materials, wood or cork, and other materials to give a sense of interaction between blocks and voids.
Week 11	**perspective drawing** Help the designer create depth, distance, and creativity. Three-dimensional images that appear on a two-dimensional surface. They provide an excellent graphic method for visualizing architectural design ideas.
Week 12	**Design Development and Refinement**

Week 13	Continuing the design development process based on feedback and critique sessions. Refining the architectural concept, spatial layout, and technical details. Creating 3D models, renderings.
Week 14	**Presentation and Finalization**: Prepare final presentation materials presenting the residential house design, presenting the design concept, spatial layout, and technical details of the horizontal and vertical plans. Completion of architectural drawings, presentations and documentation of the project.
Week 15	**Preparatory week before the final Exam**
Week 16	**Final Exam**

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	**Available in the Library?**
Required Texts	- **Architectural Design and Construction Elements Book (Neufert):** It is a basic book for every architectural student, especially in the early stages of study. The book provides important architectural data and information that organizes the design and planning processes for various building projects. It includes many types of buildings (from airports to zoos) . It covers the requirements of the user, it contains the basic criteria for the design of dimensions and functional considerations, it contains additions specialized in the physics of buildings, fire protection, services and the requirements of people with special needs, most of the contents are clarified by dimensions, and each type of building includes its own plans and sections in addition to some important details. - **Time-Saver Standards for Building Types** : It provides comprehensive architectural information for a variety of structures, focusing on topical issues such as accessibility for people with disabilities, energy conservation, and environmental regulations. The book's material includes new topics such as home offices and recreational centers, in addition to traditional topics such as health care buildings, day care buildings, houses of worship in various forms, gymnasiums, government and public buildings, airports, and more. It is a really valuable guide to obtaining the technical data and design determinants of more than eighty types of buildings. In addition to that; It is suitable for architectural education programs, practitioners and professionals alike. - **Pencil Sketching**: A very important reference that deals with the basics of visual training and pencil drawing, which are among the skills that help architects express their ideas. - **Architectural Detailing book**: deals with functional, structural and aesthetic architectural details. - All architectural magazines, engineering websites, published research and documentaries related to design ideas and architectural projects.	

Recommended Texts	- "Architectural Design: Composition, Skills, and Process" by William Pena and Steven Parshall - This book focuses on the principles and techniques of architectural design, including the exploration of color, texture, scale, proportion, and balance. It offers practical exercises and examples to help students understand and apply these principles in their design work. - Architectural Formation: It deals with the technical foundations for formation, composition, and proportionality in architecture, and explains the features of the elements, the suggestive meanings, and the apparent transformation of forms. - Matter: Material Processes in Architectural Production, edited by Gail Peter Burden and Michael Meredith. The book offers an expansive education and practice of architectural design that examines material and spatial ideas through fabrication on multiple scales within new time frames in order to reimagine architecture and our experiences.	
Websites	- archdaily .com - dezeen .com - studentcompetitions.com - architizer.com - e-architect.com - arch2o.com	

Grading Scheme
مخطط الدرجات

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

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

جدول الساعات المجدولة وغير المجدولة

Architectural Design I

نوع النشاط	الساعات المجدولة SSWL	الساعات غير المجدولة USSWL	عدد الأسابيع	ساعة لكل أسبوع	العبء الكلي للنشاط
محاضرات	محاضرات في القاعات الدراسية		**15**	**2**	**30**
المختبر	دوام المختبر		0	0	0
مناقشات*	المناقشات		0	0	0
مشروع عملي*	مشروع عملي		15	6	90
		التهيئة للمشروع	0	0	0
تحضير الدروس اليومي		تحضير الدروس اليومي	**15**	**6**	**90**
العروض التقديمية*	القاء العرض التقديمي		0	0	0
		التهيئة للعرض التقديمي	0	0	0
الامتحانات اليومية	الامتحان		3	3	9
		التهيئة للامتحانات اليومية	0	0	0
امتحان نصف الفصل	الامتحان		0	0	0
		التهيئة للامتحان	0	0	0
امتحان نهاية الفصل	الامتحان		0	0	0
		التهيئة للامتحان	**1**	**6**	**6**
			العبء الكلي للمادة خلال الفصل:		**225**
			عدد الوحدات:		**9**

*لا توجد ساعات مجدولة لهذه النشاطات كون تم استيفاؤها ضمن الصفوف الدراسية.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Architectural Graphics**			**Module Delivery**	
Module Type	**C**			☐ **Theory** ☐ **Lecture** ☐ **Lab** ☐ **Tutorial** ☒**Practical** ☐ **Seminar**	
Module Code	**WARC09**				
ECTS Credits	**6**				
SWL (hr/sem)	**150**				
Module Level	UGII		**Semester of Delivery**	Three	
Administering Department	WAR		**College**	College of Engineering	
Module Leader	Rabee Jameel Al-Shammari		**e-mail**	rabee.jameel@uowasit.edu.iq	
Module Leader's Acad. Title	Lecturer Dr.		**Module Leader's Qualification**	Ph.D. in Arch Eng.	
Module Tutor	Wasan Jawad Ubaid AL-Ghiribawi		**e-mail**	gl307@uowasit.edu.iq	
Peer Reviewer Name			**e-mail**		
Scientific Committee Approval Date	20\9\2024		**Version Number**	1.0	

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module		**Semester**	
Co-requisites module		**Semester**	
Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية			
Module Objectives أهداف المادة الدراسية	1. Strengthening the student's skill in converting what is going on in his mind into an image that can be perceived through free drawing. 2. Knowing the methods of architectural rendering and directing, and being able to master at least one method well. 3. Introducing the student to the color circle to develop his ability to coordinate and combine different colors. 4. The importance of neighborhood and scale for the project and the ability to choose external inputs within the designed project and the method of its final display. 5. Introducing the student to the nature of perspective and geometric projection and its importance in architecture in the relationship between mass and space. 6. Developing the student's awareness of the importance of projections of light and shadows arising from it and their importance in developing the visual sense and aesthetic perception of the architectural designer according to the engineering laws of perspective.		
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. The student's ability to develop ideas more accurately and proficiently. 2. Enable the student to identify problems that may occur in the early stages of design. 3. The ability to express ideas through graphics (communication of ideas between the designer and the recipient). 4. The student's ability to understand the basic elements and components of matter and space. 5. Enabling the student to choose the appropriate perspective shot for the project, whether from the outside or the inside.		

Indicative Contents المحتويات الإرشادية	The indicative content includes:- **1. Architectural Graphic Techniques**:[30 hours] Architectural rendering techniques include two types, the first is techniques using traditional methods, and the second type is using the calculator through the PHOTO SHOP, 3D STUDIO MAX, AUTOCAD and other programs that give speed in completion and accuracy in work. **2. Architectural Graphic Methods**:[30 hours] It includes showing with pencils, ink, and wooden pens, in addition to using watercolors and pastels. **3. Areas Of Architectural Graphic**:[40 hours] There are three types of drawing that make up the group of (90°) projections: outline, sectional, and frontal. **4. Principles Of Architectural Graphic**:[25 hours] Studying the voids in the building represented by the glass surfaces and openings in the building, adopting the aesthetic foundations associated with color. Because it forms the aesthetic appearance that the space design will take in its final form. **5. Architectural projection methods** :[50 hours] Each project can be represented by a number of different drawing techniques, including plans, sections, models, axes, and perspectives.

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	Explaining theoretical lectures and clarifying them through presentations, and encouraging the student to discuss in class to improve their skills, then what the student learned is applied in the form of illustrations and diagrams. Lesson requirements vary between theoretical and practical lecture and descriptive homework.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	63	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	87	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	6
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**150**		

Module Evaluation تقييم المادة الدراسية					
As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	5% (2)	Continue	All
	Assignments(Home work)	3	10% (5)	Continue	All
	Online Assignments	3	10% (5)	Continue	All
	Projects / Lab.(Class work)	3	15% (2)	Continue	All
	Report	-	-	-	-
Summative assessment	Midterm Exam	1	10%	3	LO #1- LO #2, LO #3- LO #4, LO #5- LO #6- LO #6- LO #7
	Final Exam	3hr	50% (50 Marks)	1	All
Total assessment			100% (100 Marks)	-	

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي العملي	
Week	**Material Covered**
Week 1	**2D graphics:** In which the student is enabled to draw horizontal plans, (plans) and the site plan.
Week 2	**2D graphics:** Drawing vertical sections with an emphasis on the method of displaying in ink and colors. Drawing and displaying interfaces.
Week 3	**3D graphics - isometrics/its types** Draw a cuboid and a vault. Drawing a cylinder and a wall with holes of different shapes / a composition exercise that includes different shapes / drawing levels.
Week 4	**3D graphics - isometrics/its types** Drawing the dome and other shapes, drawing a more complex composition.
Week 5	**The internal isometric** drawing method, similar examples, periodic exercise, homework The student draws an internal isometric for his design project.
Week 6	**External isometric**: isometric drawing assignment for his design project.
Week 7	**Periodic exam:** Complicated isometric composition.
Week 8	**Perspective**: Concept lecture , Other shapes in perspective / stars and more complex shapes.
Week 9	Perspective section.
Week 10	scale in perspective.
Week 11	The outside perspective has more than one vanishing point
Week 12	**Interior perspective**: with two vanishing points.
Week 13	**the shadow :** Shadow on 2D graphics - general concept.
Week 14	Shadow on two-dimensional graphics, shadow on different shapes. shadows on complex surfaces.
Week 15	**Preparatory week before the final Exam**
Week 16	**Preparatory week before the final Exam**

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	The Art of Perspective and Architectural Rendering by (Susi Askanian)	NO
Recommended Texts	Books of perspective and architectural manifesting(Tariq Kazem Ajeel)	NO
Websites		

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

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

Architectural Graphics جدول الساعات المجدولة وغير المجدولة

نوع النشاط	الساعات المجدولة SSWL	الساعات غير المجدولة USSWL	عدد الأسابيع	ساعة لكل أسبوع	العبء الكلي للنشاط
محاضرات	محاضرات في القاعات الدراسية		**15**	**1**	**15**
المختبر	دوام المختبر				
مناقشات*	المناقشات				
مشروع عملي*	مشروع عملي		**15**	**3**	**45**
		التهيئة للمشروع	**3**	**4**	**12**
تحضير الدروس اليومي		تحضير الدروس اليومي	**12**	**4**	**48**
العروض التقديمية*	القاء العرض التقديمي				
		التهيئة للعرض التقديمي			
الامتحانات اليومية	الامتحان				
		التهيئة للامتحانات اليومية	**2**	**6**	**12**
امتحان نصف الفصل	الامتحان				
		التهيئة للامتحان	**1**	**7**	**7**
امتحان نهاية الفصل	الامتحان		**1**	**3**	**3**
		التهيئة للامتحان	**1**	**8**	**8**
			العبء الكلي للمادة خلال الفصل:		**150**
			عدد الوحدات:		**6**

*لا توجد ساعات مجدولة لهذه النشاطات كون تم استيفاؤها ضمن الصفوف الدراسية.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Building Construction I**			**Module Delivery**	
Module Type	**Basic**			**☒ Theory** **☐Lecture** **☐ Lab** **☐Tutorial** **☒ Practical** **☐ Seminar**	
Module Code	**WARB01**				
ECTS Credits	**4**				
SWL (hr/sem)	**100**				
Module Level	UGx11 UGII		**Semester of Delivery**	3	
Administering Department	WAR		**College**	College of Engineering	
Module Leader	Haider Majid Hasan		**e-mail**	hmajid@uowasit.edu.iq	
Module Leader's Acad. Title	Lecturer Dr.		**Module Leader's Qualification**	Ph.D.	
Module Tutor			**e-mail**		
Peer Reviewer Name			**e-mail**		
Scientific Committee Approval Date	20/09/2024		**Version Number**	1.0	

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module		**Semester**	
Co-requisites module		**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	1. The student is acquainted with some aspects of the technical systems and related to the building information that the architect should be familiar with in order to develop his ability to design structurally. 2. The student is acquainted with the building and construction systems in general, and then infiltrates with knowledge and in a way that suits the way the architect perceives his building as an environmental envelope that enjoys durability, beauty and environmental protection. Relevant in terms of form and content to the basic and secondary activities and functions of the building, through understanding and comprehending the information of

	its basic and secondary elements and its complementary components, leading to understanding the building as a whole and in general. 3. The focus is on the solid structural system and the use of brick material that is suitable for the environment and local architecture in order to form a knowledge base for the student that qualifies him to realize the structural and operational processes. 4. The course includes two parts, the first theoretical part that deals with the general principles (particularly the solid system) and the second practical part that deals with ways of expressing structural problems in an architectural language as an application of the theoretical material. The study includes on-site visits for the student to learn about the building reality. Due to the limited time and the breadth of the material provided to the student, each student is assigned to follow up the process of building a house and prepare a report on that to increase the knowledge base of the student from the practical and executive side.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. The ability to absorb aspects of technical systems and related to building information that the architect should be familiar with in order to develop his structural design ability. 2. The ability to apply building and construction systems in general, in a way that suits the way the architect perceives his building as an environmental envelope that enjoys durability, beauty and environmental protection. 3. The ability to form the form and content of the events and the basic and secondary functions of the building through its primary and secondary elements and complementary components in order to realize the understanding of the building as a whole and in general. 4. The ability to form a solid structural system using bricks that are suitable for the environment and local architecture.
Indicative Contents المحتويات الإرشادية	The indicative content included the following. Part A: Building and Construction Theory Building Units - Define building units. building elements - building identification, Basis - roofing - Part B - Practical Project.: Preparation of designs It shows the plan of the building's ground floor, walls, and staircases; First Floor Plan Site Plan and Refined Plan.

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The main strategy that will be adopted in presenting this module includes explaining the theoretical topics of the subject in class with the participationofstudents in introducing the topics.As well as periodic review of topics by students through conducting quick exams. For the practical side, the diagram and details are explained in class, then the students start drawing according to the details. The plans are evaluated, and deficiencies and negatives are diagnosed and returned to the students. Then the students present the final plans in the form of an integrated project.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	3.0	**Structured SWL (h/sem)** الحمل الدراسي المنتظم للطالب خلال الفصل	48
Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	3.5	**Unstructured SWL (h/sem)** الحمل الدراسي غير المنتظم للطالب خلال الفصل	52
		Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**100**

Module Evaluation تقييم المادة الدراسية					
	As	**Time/Number**	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	2	10% (5)	5, 10	LO #1, 2, and 3-5
	Assignments	1	10% (10)	Continuous	All
	Online Assignments	1	10% (10)	Continuous	All
	Projects / Lab.	1	10% (10)	Continuous	All
	Report	0	-	-	-
Summative assessment	**Midterm Exam**	2hr	10% (10)	11	LO #1 - #5
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
Week	**Material Covered**
Week 1	Introducing the student to the lesson in its scientific and theoretical part, (the aim of the curriculum, sources and grades, basic definitions)
Week 2	Construction processes - construction methods
Week 3	Structural systems (solid, skeletal, cortical)
Week 4	The wall as a structural element (the behavior of the structural element towards different stresses and ways to resist them)
Week 5	Structural classification of walls, methods of construction
Week 6	The wall with the building units (bricks) and the methods of attachment
Week 7	Linkage and dimensional coordination problem
Week 8	Openings in the brick walls
Week 9	Foundations
Week 10	Floor

Week 11	upper floors
Week 12	Concrete floors
Week 13	Roof
Week 14	Resistance to environmental factors in the wall, floors, and ceiling
Week 15	**Review and a preparatory week before the Final Exam**
Week 16	**Final Exam**

Delivery Plan (Weekly Practical Syllabus) المنهاج الاسبوعي للعملي	
Week	**Scheme Covered**
Week 1	Types of binding
Week 2	Types of binding
Week 3	Types of walls (solid, hollow, wood, membrane, stone)
Week 4	Openings
Week 5	Openings
Week 6	The foundations of the wall and floor
Week 7	The foundations of the wall and floor
Week 8	Roofing (Acadeh, Concrete) Basement level, dome
Week 9	Roofing (Acadeh, Concrete) Basement level, dome
Week 10	Roofing (Acadeh, Concrete) Basement level, dome
Week 11	hole in the roof
Week 12	Flatness
Week 13	(An isometric clip of a building from the foundation to the roof)
Week 14	Reviewing
Week 15	Final submission and evaluation

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	كتاب : انشاء المباني – المؤلف : عاطف السهيري	Yes
Recommended Texts	Drawings of the project	Yes

Grading Scheme مخطط الدرجات				
Group	**Grade**	التقدير	**Marks %**	**Definition**
Success Group (50 - 100)	**A** - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria

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

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

جدول الساعات المجدولة وغير المجدولة لمادة

Building Construction I

نوع النشاط	الساعات المجدولة SSWL	الساعات غير المجدولة USSWL	عدد الأسابيع	ساعة لكل أسبوع	العبء الكلي للنشاط
محاضرات	محاضرات في القاعات الدراسية		**15**	**1**	**15**
المختبر	دوام المختبر		0	0	0
عملي			**15**	**2**	**30**
مشروع عملي*	مشروع عملي				
		التهيئة للمشروع	**8**	**4**	**32**
تحضير الدروس اليومي		تحضير الدروس اليومي	**0**	**0**	**0**
العروض التقديمية*	القاء العرض التقديمي		0	0	0
		التهيئة للعرض التقديمي	0	0	0
الامتحانات اليومية	الامتحان		**0**	**0**	**0**
		التهيئة للامتحانات اليومية	**2**	**3**	**6**
امتحان نصف الفصل	الامتحان		**0**	**0**	**0**
		التهيئة للامتحان	**1**	**6**	**6**
امتحان نهاية الفصل	الامتحان		**1**	**3**	**3**
		التهيئة للامتحان	**1**	**8**	**8**
			العبء المجدول		**48**
			العبء غير المجدول		**52**
			العبء الكلي للمادة خلال الفصل:		**100**
			عدد الوحدات:		**4**

*لا توجد ساعات مجدولة لهذه النشاطات كون تم استيفاؤها ضمن الصفوف الدراسية.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Computer Applications II**			**Module Delivery**	
Module Type	**C**			☒ **Theory** ☐ **Lecture** ☒ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**WARC10**				
ECTS Credits	**4**				
SWL (hr/sem)	**100**				
Module Level	UGII		**Semester of Delivery**	Three	
Administering Department	WAR		**College**	College of Engineering	
Module Leader	Hala Abdul Adeem Naman		**e-mail**	haltaee@uowasit.edu.iq	
Module Leader's Acad. Title	Lecturer		**Module Leader's Qualification**	Ph.D. in Information and Communication Eng.	
Module Tutor	Wasan Jawad Ubaid AL-Ghiribawi		**e-mail**	gl307@uowasit.edu.iq	
Peer Reviewer Name			**e-mail**		
Scientific Committee Approval Date	20\9\2024		**Version Number**	1.0	

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module		**Semester**	
Co-requisites module		**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	• The AutoCAD and Revit architectural accounting course generally focuses on providing students with the skills necessary to integrate design software (AutoCAD and Revit) with basic architectural accounting practices. The objectives of such a course may include: **1. Mastery of Design Tools:** AutoCAD Proficiency: Understanding the fundamentals of AutoCAD for 2D drafting and 3D modeling. Revit Proficiency: Learning Revit for Building Information Modeling (BIM), including creating detailed architectural models. **2. Understanding Architectural Documentation:** Producing architectural drawings (plans, elevations, sections) that are accurate and meet industry standards. Ensuring proper documentation of project phases from conceptual design to final construction documentation. **3. Integration of Accounting Principles in Architecture:** Cost Estimation: Applying architectural drawings to produce accurate cost estimates for materials and labor. Budget Management: Learning how to manage project budgets by tracking expenses and financial data related to architectural designs. Resource Allocation: Understanding how to allocate resources efficiently based on design changes and updates in Revit models.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	After completing this course, the learner should be able to: • Use the program and know its capabilities. • Draw everything that comes to mind in his specialty. • Qualification to deal with other engineering programs such as 3dsmax. • Working in external companies as a specialist in AutoCAD drawing. • If a student can apply what he takes in theory in the form of graphics. • Self-employment (such as working on a freelancer site).

Indicative Contents المحتويات الإرشادية	Part:1-[50 hours] • Learn about the interface of the AutoCAD program, how to install it, and the main tapes in the interface. +An introduction to the main drawing tools such as line, circle, polygon, etc., the process of adjusting the unit before starting work, and how to save and export the file. [10 hours] •An introduction to the modification tools with a practical application on each tool. +Expanding the knowledge of editing tools such as term, offset, flat, chanfer, layers and others. +Covering all the editing, drawing tools, and knowing the ways of making the tiles with a practical application of a simple house plan. +Follow up on the explanation of the main modification orders with the practical application of each order by the staff.[20 hours] •dimensions. •texts. •blocks. •3D system. •limit the quantities.[20 hours] Part:2-[50 hours] • A Practical application inside the laboratory + homework assessment to draw three facades + a house project plan.[50 hours]

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	1- Explaining the theoretical material through the data show and identifying the most prominent concepts of the programs used during the semester. 2- Practical application in the laboratory on the use of programs. 3- Classroom duties in the laboratory. 4- Homework.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	3	**Structured SWL (h/sem)** الحمل الدراسي المنتظم للطالب خلال الفصل	48
Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	3.5	**Unstructured SWL (h/sem)** الحمل الدراسي غير المنتظم للطالب خلال الفصل	52
		Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**100**

Module Evaluation تقييم المادة الدراسية					
As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (5)	6,12	LO #1- LO #3, LO #4- LO #6,
	Assignments	1	5% (5)	3,6,9,12	LO #1- LO #3, LO #4- LO #6, LO #7- LO #9, LO #10- LO #12
	Online Assignments	1	5% (5)	continue	LO #1- LO #3, LO #4- LO #6, LO #7- LO #9, LO #10- LO #12
	Projects / Lab.	4	20% (5)	2,5,8,11	All
	Report	-	-	-	
Summative assessment	Midterm Exam	2hr	10% (10)	20	All
	Final Exam	3hr	50% (50)	25	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
Week	**Material Covered**
Week 1	• An introductory lecture to the program and getting to know the AutoCAD program interface and how to install it and the main bars in the interface. In addition to an introduction to the main drawing tools such as line, circle, polygon, etc., and the process of adjusting the unit before starting work, and how to save and export the file.
Week 2	• An introduction to the editing tools with a practical application of each tool. Expanding knowledge of editing tools such as term, offset, flat, chanver, layers, etc. Covering all editing and drawing tools and knowing how to make tiles with a practical application of a simple house plan. Follow up on the explanation of the main editing commands with the practical application of each command by the employees (dimensions. texts. blocks. 3D system. Determining quantities. Printing in AutoCAD.)
Week 3	• A practical application for drawing a section for an architectural project + printing methods and their properties in AutoCAD. Also a practical application in the laboratory + homework assessment for drawing facades + a house project plan.
Week 4	• A Practical application inside the laboratory
Week 5	• AutoCAD theoretical exam
Week 6	• Get to know the program interface and settings, walls and drawing and modification commands, study levels and center lines and import files.
Week 7	• Drawing methods for columns, walls, openings and curtain glass walls
Week 8	• Doors and windows, drawing floors, ceilings and roofs
Week 9	• Stairs, ramps and quarry, family and adding and modifying blocks
Week 10	• Rooms, adding and modifying them and calculating areas
Week 11	• Sections, facades and shots
Week 12	• Studying materials and how to extract all plans in the form of sheets.
Week 13	• Practical application in the laboratory + evaluation of homework for drawing facades + a house project plan.
Week 14	• Theoretical exam for Revit
Week 15	**Preparatory week before the final Exam**
Week 16	**Preparatory week before the final Exam**

Delivery Plan (Weekly lab Syllabus) المنهاج الاسبوعي العملي	
Week	**Material Covered**
Week 1	• An introductory lecture to the program and getting to know the AutoCAD program interface and how to install it and the main bars in the interface. In addition to an introduction to the main drawing tools such as line, circle, polygon, etc., and the process of adjusting the unit before starting work, and how to save and export the file.
Week 2	• An introduction to the editing tools with a practical application of each tool. Expanding knowledge of editing tools such as term, offset, flat, chanver, layers, etc. Covering all editing and drawing tools and knowing how to make tiles with a practical application of a simple house plan. Follow up on the explanation of the main editing commands with the practical application of each command by the employees (dimensions. texts. blocks. 3D system. Determining quantities. Printing in AutoCAD.)
Week 3	• A practical application for drawing a section for an architectural project + printing methods and their properties in AutoCAD. Also a practical application in the laboratory + homework assessment for drawing facades + a house project plan.
Week 4	• A Practical application inside the laboratory
Week 5	• AutoCAD theoretical exam
Week 6	• Get to know the program interface and settings, walls and drawing and modification commands, study levels and center lines and import files.
Week 7	• Drawing methods for columns, walls, openings and curtain glass walls
Week 8	• Doors and windows, drawing floors, ceilings and roofs
Week 9	• Stairs, ramps and quarry, family and adding and modifying blocks
Week 10	• Rooms, adding and modifying them and calculating areas
Week 11	• Sections, facades and shots
Week 12	• Studying materials and how to extract all plans in the form of sheets.
Week 13	• Practical application in the laboratory + evaluation of homework for drawing facades + a house project plan.
Week 14	• Theoretical exam for Revit
Week 15	**Preparatory week before the final Exam**
Week 16	**Preparatory week before the final Exam**

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	• George Omura,(Mastering AutoCAD2002). • James A.Whitson,(500 Electronic IC Circuits). • 1. Mastering Autodesk Revit 2024 – Lance Kirby, Eddy Krygiel, Marcus Kim . • Autodesk Revit 2024 Architecture: No Experience Required – Eric Wing	unavailable
Recommended Texts	–	–
Websites	https://www.autodesk.com/ https://www.udemy.com	

Grading Scheme
مخطط الدرجات

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

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

جدول الساعات المجدولة و غير المجدولة لمادة

Computer Applications I

نوع النشاط	الساعات المجدولة SSWL	الساعات غير المجدولة USSWL	عدد الأسابيع	ساعة لكل أسبوع	العبء الكلي للنشاط
محاضرات	محاضرات في القاعات الدراسية		15	1	15
المختبر	دوام المختبر		15	2	30
مناقشات	المناقشات		0	0	0
	مشروع عملي		0	0	0

مشروع عملي		التهيئة للمشروع	8	2	16
انجاز الواجب البيتي		تحضير المشاريع البيتية	14	1	14
العروض التقديمية	القاء العرض التقديمي		0	0	0
		التهيئة للعرض التقديمي	0	0	0
الامتحانات اليومية		التهيئة للامتحانات اليومية	2	2	4
امتحان نصف الفصل	الامتحان		0	0	0
		التهيئة للامتحان	1	8	8
امتحان نهاية الفصل	الامتحان		1	3	3
		التهيئة للامتحان	1	10	10
			العبء الكلي للمادة خلال الفصل:		100
			عدد الوحدات:		4

*لا توجد ساعات مجدولة لهذه النشاطات كون تم استيفاؤها ضمن الصفوف الدراسية.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**History of Iraqi Architecture**			**Module Delivery**	
Module Type	**C**			☒ **Theory** ☐ **Lecture** ☐ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**WARC11**				
ECTS Credits	**3**				
SWL (hr/sem)	**75**				
Module Level	UGIII		**Semester of Delivery**	Three	
Administering Department	WAR		**College**	College of Engineering	
Module Leader	Sabeh Lafta		**e-mail**	@uowasit.edu.iq	
Module Leader's Acad. Title	Prof. Dr		**Module Leader's Qualification**	PH.D.	
Module Tutor	Wasan Jawad Ubaid AL-Ghiribawi		**e-mail**	gl307@uowasit.edu.iq	
Peer Reviewer Name			**e-mail**		
Scientific Committee Approval Date	20\9\2024		**Version Number**	1.0	

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

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	• The study aims to identify the nature of the emergence of the first civilizations, their buildings, and their settlement in the Mesopotamia Valley and the Nile, and trace the development of architecture in them until the Islamic conquests that were affected by it. Building (threshold and column).
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. Learn about the architecture of Sumer, Amuriyah, first Babylon, Assyria, then Chaldea. 2. Get acquainted with the architecture in the neighboring regions of the Iraqi architecture that influenced or was influenced by it, such as the Parthian, Seleucid and Sasanian architecture. 3. Shedding light on the basis of the Abbasid architecture that was affected by it. 4. The clarification that the Iraqi architecture continues and the study concludes up to the Nile Valley and its Pharaonic buildings in the ancient, middle and modern kingdoms, and comparing its artistic production with the architecture of the Mesopotamia Valley.
Indicative Contents المحتويات الإرشادية	Part:1-[50 hours] The settlement theory. + Formation of city-states in the Mesopotamia Valley.[10 hours]. Visiting the Iraqi Museum. +Iraq - Geology, rivers, and climate. + The unification of cities and the emergence of states. [10 hours]. Sumerian architecture.+ Akkadian architecture. [10 hours]. Babylonian architecture. + Assyrian architecture +Parthian, Seleucid architecture. [10 hours] Al-Hatra architecture and planning +The Sasanian architecture [10 hours]. Part:2-[50 hours] Arab architecture before Islam – Iraq.+ Al-Kufa and its planning. + Emirates House. Al-Ukhaydir Palace. [20 hours]. Wasit and its mosque. + Baghdad. + Samarra. [10 hours]. The Abbasid urban structures.+ Houses of worship.Schools and khans.+ [10 hours]. * Pharaonic architecture.+ *The Pharaonic architecture.+ Pharaonic architecture. [10 hours].

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	1. Explain the article in detail and through the data show. 2. Conducting an exam through an intellectual question at the end of each lecture and related to the previous lecture. 3. Make areport during the semester. 4. Student participation in presenting information and internal discussions among students. 5. A video presentation of the most important buildings of Iraqi architecture throughout history and according to the curriculum. 6. Request drawings and sketches for different designs related to the lecture and Iraqi architecture with its different dates and related to the curriculum. 7. At the end of the semester, an exhibition of students' graphic activities was made and displayed within the department.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	33	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	42	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	3
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	75		

Module Evaluation تقييم المادة الدراسية					
As		**Time/Number**	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	2	10% (5)	5 and 13	All
	Assignments	1	5% (5)	continue	LO #8 - #14
	Online Assignments	1	5% (5)	continue	All
	Projects / Lab.	0	-	-	-
	Report	1	20% (20)	13	All
Summative assessment	**Midterm Exam**	2hr	10% (10)	10	LO #1 - #9
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
Week	**Material Covered**
Week 1	The settlement theory.... the displacement of human waves due to the ice ages to Mesopotamia and the Nile. Formation of city-states in the Mesopotamia Valley.... Settlement in the caves, then agricultural communities that grew into city-states - explaining some examples.
Week 2	Visiting the Iraqi Museum... Seeing the achievements of the Mesopotamian civilization from the stone ages until the beginning of the Islamic civilization.
Week 3	Iraq - Geology, rivers, and climate..... Learn about geographical and climatic information. The unification of cities and the emergence of states... Sargon of Akkad unites the states into one state.
Week 4	Sumerian architecture..... architectural features, architectural vocabulary with examples. Akkadian architecture....architectural features, architectural vocabulary with examples.
Week 5	Babylonian architecture.... architectural features, architectural vocabulary with examples. Assyrian architecture...architectural features, architectural vocabulary with examples.
Week 6	Parthian, Seleucid architecture.... In addition to some structures to the existing Iraqi temples, Seleucid planning (Tell Omar, and the emergence of Hellenistic architecture). Al-Hatra architecture and planning.... Hellenistic cities temple within the traditional Iraqi city.
Week 7	The Sasanian architecture... the palaces of the cities and their impact on the Assyrian architecture. Arab architecture before Islam – Iraq..... Al-Khawaranq and Al-Sudair - The emergence of the Hiryan style in Iraq.
Week 8	Al-Kufa and its planning... the first Iraqi city that was later adopted by the Muslim Arabs as an example in the planning of Arab Islamic cities. Emirates House... It is considered the first Arab palace affected by the old Iraqi palaces.
Week 9	Al-Ukhaydir Palace... Contradictory opinions about the date of construction of this important building, as it is puzzling in its planning and Sassanian in some of its vocabulary, as it has an Islamic mosque and a bath as well. Wasit and its mosque... Despite its construction during the rule of the first Umayyads, all of its vocabulary is Iraqi. Baghdad...represents the culmination of urban planning for the stage of its establishment in the civilizations of the ancient Near East. Samarra... Likewise, Samarra represents the first regional planning in the world, as its territory extends about 40 kilometers.
Week 10	The Abbasid urban structures... These urban structures were developed in the ancient civilization of Iraq, so they will be explained in detail to be restored by students and scholars, respectively. Houses of worship... Despite the difference in belief, its planning location is derived from the planning of ancient Iraqi cities.
Week 11	Schools and khans... They were among the most important buildings in Sadr al-Islam. The Heritage House...It derives its roots in Ur and Babylon and to this day explains here the planning foundations of the role of its gatherings.
Week 12	* Pharaonic architecture… The Pharaonic thought and belief in eternity had a great impact on the Pharaonic architecture and its vocabulary.

Week 13	*The Pharaonic architecture…the structural methods and architectural vocabulary are explained here, with an explanation of the most important Pharaonic buildings.
Week 14	Pharaonic architecture… The intermarriage of giant sculpture arts with architecture and planning in the stages of temples decorated with porticoes of (the Sphinx) and huge obelisks. Explaining the appearance of the busts of the pharaohs and their wives.
Week 15	**Preparatory week before the final Exam**
Week 16	**Preparatory week before the final Exam**

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	Mesopotamia - L. Dela Porte Islamic Art and Architecture- Robert Hillenbrand	Available
Recommended Texts	History of Architecture Through the Ages - Qabila Al-Maliki Tribe	Unavailable
Websites	https://www.noor-book.com/	

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

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

جدول الساعات المجدولة و غير المجدولة لمادة

History of Iraqi Architecture

نوع النشاط	الساعات المجدولة SSWL	الساعات غير المجدولة USSWL	عدد الأسابيع	ساعة لكل أسبوع	العبء الكلي للنشاط
محاضرات	محاضرات في القاعات الدراسية		15	2	30
المختبر	دوام المختبر		0	0	0
تقارير		التهيئة للتقرير	3	4	12

مشروع عملي	مشروع عملي		0	0	0
		التهيئة للمشروع	0	0	0
تحضير الدروس اليومي		تحضير الدروس اليومي	12	1	12
العروض التقديمية	القاء العرض التقديمي		0	0	0
		التهيئة للعرض التقديمي			
الامتحانات اليومية		التهيئة للامتحانات اليومية	2	3	6
امتحان نصف الفصل	الامتحان		0	0	0
		التهيئة للامتحان	1	6	6
امتحان نهاية الفصل	الامتحان		1	3	3
		التهيئة للامتحان	1	6	6
			العبء الكلي للمادة خلال الفصل:		75
			عدد الوحدات:		3
*لا توجد ساعات مجدولة لهذه النشاطات كون تم استيفاؤها ضمن الصفوف الدراسية.					

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Logic and Design Methodology**			**Module Delivery**	
Module Type	**Basic**			**☒ Theory** **☐Lecture** **☐Lab** **☐Tutorial** **☐Practical** **☐ Seminar**	
Module Code	**WARB02**				
ECTS Credits	**2**				
SWL (hr/sem)	**50**				
Module Level	UGx11 2		**Semester of Delivery**	Three	
Administering Department	WAR		**College**	College of Engineering	
Module Leader	AyamShyaaAl-Tamemi		**e-mail**	ayamaltamem3@gmail.com	
Module Leader's Acad. Title	Asst. Lecturer		**Module Leader's Qualification**	M. Sc.	
Module Tutor			**e-mail**		
Peer Reviewer Name			**e-mail**		
Scientific Committee Approval Date	20/09/2024		**Version Number**	1.0	

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module		**Semester**	
Co-requisites module		**Semester**	

Module Aims, Learning Outcomes, and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	1. Description of the terms of logic and logical thinking and other concepts. 2. Description of the design as a rational and intellectual process focusing on rational thinking with its effect on the design process to evaluate the design. 3. Design process can be reflections of natural, geographical, or physical phenomena. 4. Studying the classical influences of ancient Greek civilization on design thinking, besides the six main elements in the design process.

	5. Studying the prime elements that reflect on the design, such as system, arrangement, ratios, symmetry, convenience, and economy. 6. Using criticism as a method to evaluate the design process with the explanation of different stages of the design process.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. Learning the terms logic and logical thinking and other concepts. 2. Studying the design as a rational and intellectual process focusing on rational thinking with its effect on the design process to evaluate the design. 3. Studying the Design process can be a reflection of natural, geographical, or physical phenomena. 4. Studying the classical effects of ancient Greek civilization on design thinking, besides the six main elements in the design process. 5. Studying the prime elements that reflect on the design, such as system, arrangement, ratios, symmetry, convenience, and economy. 6. Using criticism as a method to evaluate the design process with the explanation of different stages of the design process.
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. **Definitions**–defining the main concepts related to logic, besides defining the design as a rational and intellectual process focusing on rational thinking with its effect on the design process to evaluate the design. [5hrs] **Design process** -providing information on the relationship between design and nature. [15 hrs] **Ancient Greek civilization** –this part focuses on studying the ancient Greek civilization and its effect on design thinking, besides the six main elements in the design process.[15hrs] **Prime element**–Studying the prime elements that reflect on the design, such as system, arrangement, ratios, symmetry, convenience, and economy.[15hrs]

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The main strategy that will be adopted in presenting this module includes explaining the topics of the subject theoretically in class and encouragingstudents to brainstorm to participate in the theoretical discussion.As well as periodic review of topics by students through conducting quizzes.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	2	**Structured SWL (h/sem)** الحمل الدراسي المنتظم للطالب خلال الفصل	33

Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	17	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	1
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**50**		

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

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
Week	**Material Covered**
Week 1	Explanation and definition of the concepts of logic and design methodology and other terms
Week 2	The design as a rational and intellectual process
Week 3	The importance of rational thinking and its effectiveness in the design process.
Week 4	Logical thinking mechanism and evaluation methods
Week 5	Design and reflections phenomena as they present in nature
Week 6	The design process is a reflection of the geographical and physical conditions and their impact on human
Week 7	Ancient Greek civilization and classical influences in design thinking
Week 8	Translating the concept of Phytrophisin architecture, besides the six main elements in the design process
Week 9	System and arrangement elements with their reflection on design
Week 10	Ratio and symmetry elements with their reflection on design
Week 11	Convenience and economy elements with their reflection on design
Week 12	**Midterm exam**

Week 13	Using criticism as a means to evaluate the design process
Week 14	Explanation of different stages of the design process
Week 15	**Review and a preparatory week before the Final Exam**
Week 16	**Final Exam**

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	Lecture notes on the logic and design methodology	Yes
Recommended Texts		

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

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

Logic and Design Methodology جدول الساعات المجدولة وغير المجدولة لمادة

نوع النشاط	الساعات المجدولة SSWL	الساعات غير المجدولة USSWL	عدد الأسابيع	ساعة لكل أسبوع	العبء الكلي للنشاط
محاضرات	محاضرات في القاعات الدراسية		**15**	**2**	**30**

المختبر	دوام المختبر		0	0	0
مناقشات*	المناقشات		0	0	0
مشروع عملي*	مشروع عملي		0	0	0
		التهيئة للمشروع	0	0	0
تحضير الدروس اليومي		تحضير الدروس اليومي	**8**	**1**	**8**
العروض التقديمية*	القاء العرض التقديمي		0	0	0
		التهيئة للعرض التقديمي	0	0	0
الامتحانات اليومية	الامتحان		**0**	**0**	**0**
		التهيئة للامتحانات اليومية	**4**	**1**	**4**
امتحان نصف الفصل	الامتحان		**0**	**0**	**0**
		التهيئة للامتحان	**1**	**2**	**2**
امتحان نهاية الفصل	الامتحان		**1**	**3**	**3**
		التهيئة للامتحان	**1**	**3**	**3**
			العبء الكلي للمادة خلال الفصل:		**50**
			عدد الوحدات:		**2**
*لا توجد ساعات مجدولة لهذه النشاطات كون تم استيفاؤها ضمن الصفوف الدراسية.					

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**جرائم نظام البعث**			**Module Delivery**	
Module Type	**S**			☒ **Theory** ☐ **Lecture** ☐ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**WU05**				
ECTS Credits	**2**				
SWL (hr/sem)	**50**				
Module Level	UGII		**Semester of Delivery**	one	
Administering Department	WAR		**College**	College of Engineering	
Module Leader	زينب دايخ مطر		**e-mail**	Zainabaleanzy@uowasit.edu.iq	
Module Leader's Acad. Title	مدرس		**Module Leader's Qualification**	PhD.	
Module Tutor			**e-mail**		
Peer Reviewer Name	مشتاق كاظم جمعة علياء كاظم جبر		**e-mail**	mjmaah@uowasit.edu.iq aliaa.kadim@uowasit.edu.iq	
Scientific Committee Approval Date	2024-8-28		**Version Number**	1.0	

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	لا يوجد	**Semester**	
Co-requisites module	لا يوجد	**Semester**	
odule Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية			
Module Objectives أهداف المادة الدراسية	1-Informing students about the countless crimes of the Baath regime in Iraq against Iraqis 7- اطلاع الطلبة على جرائم نظام البعث في العراق التي لا تعد ولا تحصى ضد العراقيين 2-Raising students' awareness to reject all forms of injustice, tyranny, violence and persecution of these oppressive regimes 8- رفع الوعي لدى الطلبة لرفض جميع أشكال الظلم والتسلط والعنف والاضطهاد لهذه الأنظمة القمعية 3-Enabling students to write reports and articles in Arabic in a smooth, accurate and organized manner 9- تمكين الطلبة من كتابة التقارير والمقالات باللغة العربية وبشكل انسيابي دقيق ومنظم 4-Highlighting serious violations of human rights and the environment 10- تسليط الضوء على الانتهاكات الخطيرة لحقوق الإنسان والبيئة 5-Explaining the facts of this unjust regime to generations that did not go through the stages of its rule 11- بيان حقائق هذا النظام الجائر إلى الأجيال التي لم تمر بمراحل حكمه 6-Informing students about the extent of the Baathist regime in Iraq's fight against religion and scholars in seminaries 12- اطلاع الطلبة على مدى محاربة النظام البعثي في العراق للدين والعلماء في الحوزات العلمية		

Module Learning Outcomes مخرجات التعلم للمادة الدراسية	:عند الانتهاء من هذا الفصل، سيكون الطلاب قادرين على Upon completion of this chapter, students will be able to 1-The student's knowledge of Baath crimes according to the Iraqi Criminal Court law 7- معرفة الطالب بجرائم البعث وفق قانون المحكمة الجنائية العراقية 2-Using linguistic terms to define the crime 8- استعمال المصطلحات اللغوية للتعريف بالجريمة. 3-Identify the decisions issued by the Iraqi Criminal Court against the regime and its cronies 9- تعرف الطلبة على القرارات الصادرة من المحكمة الجنائية العراقية ضد النظام وأزلامه 4-Demonstrating students' understanding of the effects of psychological crimes and the environment on the Iraqi individual at that time 10- إظهار فهم الطلبة لأثار الجرائم النفسية والبيئة على الفرد العراقي آنذاك 5-Identifying mass graves and when they occur 11- تعرّف الطلبة على المقابر الجماعية ووقت حدوثها 6-Watch video documents of the crimes of the defunct Baath Party 12- مشاهدة وثائق مصورة لجرائم حزب البعث البائد
Indicative Contents المحتويات الإرشادية	Part A: Explain the concept of crimes. (12.5 hr) Part B: Reading (12.5 hr) Part C: Writing (12.5 hr) Part D: Speaking (12.5 hr)

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	• تقديم المحاضرات النظرية وتحديد المعلومات الأكثر أهمية من خلال استخلاص الكلمات المفتاحية والأفكار. • يتم منح الطلاب فرصًا لمعرفة الجرائم التي ارتكبت بحق الشعب العراقي في زمن النظام البائد • Present theoretical lectures and determine the information that is most significant by extracting keywords and ideas. • • Students are given opportunities to learn about the crimes committed against the Iraqi people during the time of the former regime

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	2	**Structured SWL (h/sem)** الحمل الدراسي المنتظم للطالب خلال الفصل	33
Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	1.13	**Unstructured SWL (h/sem)** الحمل الدراسي غير المنتظم للطالب خلال الفصل	17
		Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**50**

Module Evaluation تقييم المادة الدراسية					
As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	20%	5, and 11	All
	Assignments	1	10%	8	
	Assignments/on line	1	10%	6	
	Report	1	10%	13	All
Summative assessment	Midterm Exam	2hr	10%	9	المخرجات التعلم ستكون مشمولة بهذا الامتحان: 1-مفهوم الجرائم وأقسامها 2- تمكن الطلبة من معرفة الأثار الناجمة عن الحرائق البيئية ودمارها. 3- معرفة عدد الجرائم وسنوات حدوثها 6-يساهم في زيادة معرفة الطلاب بكيفية توثيق المقابر من زمن حدوثها
	Final Exam	2hr	50%		All
Total assessment			100%		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
Week	**Material Covered**
Week 1	Chapter One: The concept of crimes and their types, 1- Definition of crime linguistically and terminologically الفصل الأول: مفهوم الجرائم وأقسامها, 1-تعريف الجريمة لغة واصطلاحا
Week 2	Chapter One: 1- Sections of crimes. 2- Types of crimes الفصل الأول: 1- أقسام الجرائم. 2- أنواع الجرائم
Week 3	Chapter One: Decisions issued by the Supreme Criminal Court/the most prominent cases considered by the court الفصل الأول : القرارات الصادرة من المحكمة الجنائية العليا/ ابرز القضايا التي نظرت فيها المحكمة
Week 4	**Chapter Two: Psychological and social crimes and their effects, and the most prominent violations of the Baathist regime in Iraq** الفصل الثاني: الجرائم النفسية والاجتماعية وآثارها, وأبرز انتهاكات النظام البعثي في العراق **1- Psychological crimes and their effects** 1-الجرائم النفسية, وآثارها
Week 5	**Chapter Two: 1-Social crimes and their effects** الفصل الثاني: 1-الجرائم الاجتماعية وآثارها
Week 6	**Chapter Two: Violations of Iraqi laws, images of human rights violations and crimes of authority** الفصل الثاني : انتهاكات القوانين العراقية, صور انتهاكات حقوق الإنسان وجرائم السلطة
Week 7	Chapter Two: 1- Some decisions regarding political and military violations of the Baath regime 2- Prison and detention places of the Baath regime. الفصل الثاني: 1-بعض قرارات الانتهاكات السياسية والعسكرية لنظام البعث 2-اماكن السجون والاحتجاز لنظام البعث.
Week 8	Chapter Three: Environmental crimes of the Baath regime in Iraq. 1-Military and radioactive contamination and mine explosions 2-Firstly, Basra, the use of internationally banned weapons, the dangers of mines, and contamination with radioactive materials. الفصل الثالث: الجرائم البيئية لنظام البعث في العراق. 1-التلوث الحربي والاشعاعي وانفجار الالغام أولا البصرة, استعمال الاسلحة المحرمة دوليا ومخاطر الالغام, والتلوث بالمواد المشعة.
Week 9	Exam امتحان
Week 10	Chapter Three: Second: The city of Halabja. الفصل الثالث: ثانيا: مدينة حلبجة. 2- Destruction of cities and villages (scorched earth policy) 2- تدمير المدن والقرى (سياسة الأرض المحروقة)
Week 11	Chapter Three: 3- Drying the marshes, 4- Razing palm groves, trees and crops الفصل الثالث: 3- تجفيف الأهوار, 4- تجريف بساتين النخيل والأشجار والمزروعات
Week 12	Chapter Four: Introduction to mass graves, 1- Mass grave events الفصل الرابع: التعريف بالمقابر الجماعية, 1- أحداث المقابر الجماعية

Week 13	-Chapter Four: Chronological classification of genocide graves in Iraq for the period 1963 AD - 2003 AD -Graves of genocide committed by the defunct Baath regime 1979-1988 AD- Genocide graves related to the Iran-Iraq war for the period 1980-1988 AD- الفصل الرابع: التصنيف الزمني لمقابر الإبادة الجماعية في العراق للمدة 1963م-2003م - مقابر الإبادة الجماعية المرتكبة من قبل نظام البعث البائد 1979م- 1988م - مقابر الإبادة الجماعية ذات الصلة بالحرب العراقية- الإيرانية للمدة 1980-م 1988م
Week 14	Chapter Four: - Graves of the 1983 Barzanian Kurdish genocide الفصل الرابع: - مقابر الابادة الجماعية للأكراد البرزانيين لعام 1983م Genocide graves for victims of the Anfal massacre for the period 1987-1988 AD- - مقابر الابادة الجماعية لضحايا مجزرة الانفال للمدة 1987م-1988م
Week 15	Chapter Four: Genocide graves for the victims of the 1999 Shaabaniya uprising الفصل الرابع : مقابر الابادة الجماعية لضحايا الانتفاضة الشعبانية لعام 1999م

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

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	Platform for the crimes of the Baath Party in Iraq - Ministry of Higher Education and Scientific Research منهاج جرائم حزب البعث في العراق- وزارة التعليم العالي والبحث العلمي	
Recommended Texts	The cognitive foundation for studying the crimes of the Baath Party in Iraq, written by: Dr. Qais Nasser and Professor Abdul Hadi Maatouq التأسيس المعرفي لدراسة جرائم حزب البعث في العراق, تأليف: د. قيس ناصر والأستاذ عبد الهادي معتوق	
Websites		

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

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

جدول الساعات المجدولة وغير المجدولة لمادة

Baath Party crimes

نوع النشاط	الساعات المجدولة SSWL	الساعات غير المجدولة USSWL	عدد الأسابيع	ساعة لكل أسبوع	العبء الكلي للنشاط
محاضرات	محاضرات في القاعات الدراسية		**15**	**2**	**30**
المختبر	دوام المختبر		0	0	0
مناقشات*	المناقشات		0	0	0
مشروع عملي*	مشروع عملي		0	0	0
		التهيئة للمشروع	0	0	0
تحضير الدروس اليومي		تحضير الدروس اليومي	**15**	**0.5**	**7.5**
العروض التقديمية*	القاء العرض التقديمي		0	0	0
		التهيئة للعرض التقديمي	0	0	0
الامتحانات اليومية	الامتحان		**0**	**0**	**0**
		التهيئة للامتحانات اليومية	**4**	**0.5**	**2**
امتحان نصف الفصل	الامتحان		**0**	**0**	**0**
		التهيئة للامتحان	**1**	**3**	**3**

امتحان نهاية الفصل	الامتحان		1	3	3
	التهيئة للامتحان		1	4.5	4.5
		العبء الكلي للمادة خلال الفصل:			50
		عدد الوحدات:			2

*لا توجد ساعات مجدولة لهذه النشاطات كون تم استيفاؤها ضمن الصفوف الدراسية.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Architectural Design II**			**Module Delivery**	
Module Type	**Core**			☒ **Theory**	
Module Code	**WARC06**			☐ **Lecture**	
ECTS Credits	**9**			☐ **Lab**	
SWL (hr/sem)	**225**			☐ **Tutorial**	
				☒ **Practical**	
				☐ **Seminar**	
Module Level	UGII	**Semester of Delivery**	Three		
Administering Department	WAR	**College**	College of Engineering		
Module Leader	Wasan Jawad Ubaid AL-Ghiribawi	**e-mail**	gl307@uowasit.edu.iq		
Module Leader's Acad. Title	Assistant Lec.	**Module Leader's Qualification**	MSc. in Arch. Eng.		
Module Tutor		**e-mail**			
Peer Reviewer Name		**e-mail**			
Scientific Committee Approval Date	20\6\2023	**Version Number**	1.0		

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module		**Semester**	
Co-requisites module	WARC07	**Semester**	Two

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	1. Enabling students in a logical, technical and scientific process capable of defining forms, organizations and processes that create spaces for humans to carry out specific activities; Like living, working, relaxing, healing etc 2. Study the space required for human movement and the furniture for performing the job to the fullest. 3. Providing the appropriate solution for communication between spaces and moving from one space to another space smoothly and commensurate with the strength of the relationship between these spaces. 4. Securing access from the outside to the inside and vice versa, and defining the main and secondary entrances. 5. Providing basic and necessary vital facilities such as services. 6. Linking the building to the site in terms of the historical, civil and cultural dimension. 7. Appropriate selection of shapes and sizes of building elements.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. Enabling students to design the building first for the sake of man and his use for him, and therefore the architectural design must be based on dimensions based on the human scale. 2. Achieving beauty in architecture, which is either functional beauty or sensual beauty, and finally emotional beauty. 3. Enabling the architect to rely on pure art consisting of the elements of the building itself, not from beautiful artistic additions. Simplicity in architecture is a virtue as it is in life. 4. Achieving a balance between the main aspects wisely and objectively, as well as limiting extravagance and extravagance, but on the condition that this saving does not lead to a violation of the function, beauty and durability of the building.
Indicative Contents المحتويات الإرشادية	The indicative content includes:- 1- Learn about architectural design standards. These standards include building codes, zoning regulations, and design principles that govern the built environment. It can also include design materials and methods, including the use of sustainable materials and energy efficient design.[50 hrs] 2- Focus on using the available space within the building or space. This includes incorporating features such as multi-purpose rooms, flexible furniture and efficient storage solutions.[90 hrs] 3- Designing a building or structure to reflect the values, beliefs, and habits of the people who will reside in it. This may mean incorporating traditional symbols, colors, or designs into architecture, or taking into account the local climate and environment when designing a building or structure.[50 hrs] 4- Develop technical skills in a range of design-related disciplines, including drafting, modeling, and rendering.[35 hrs]

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	- Understanding of building codes, regulations, and standards - Ability to illustrate design concepts through freehand drawing and 3D modeling - Ability to demonstrate proficiency in spatial design and analysis - Good communication and problem-solving skills. - Creative and innovative thinking by developing creative thinking and problem-solving skills - Learn about different types of architectural styles. - Interactive group discussions: encourage critical thinking and analysis of architectural concepts. - Conducting field trips to architectural spaces This experiential approach allows students to observe and evaluate how they work with the analytical skills to evaluate spaces, and the ability to apply architectural composition and design concepts effectively.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	126	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	8
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	99	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	7
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**225**		

Module Evaluation تقييم المادة الدراسية					
	As	**Time/Number**	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	8hr/ 2	5%	2	All
	Assignments	16hr/4	10%	2	All
	Projects / Lab.	60hr/ 5	20%	10	All
	Report	6hr /1	5%	1	All
Summative assessment	**Midterm Exam**	8hr 2/	10%	1	All
	Final Projects	20hr/1	35%	1	All
	Final Exam	8hr/1	15%	-	All
Total assessment			100%	–	100%
Formative assessment: The project (Analysis & Programming Stage, concept & Prelim, Pre-Final) = 40% **Summative assessment: Midterm Exam 10%+ Finalproject 20%+ Final Exam (day-sketch) 30% =60%** **Total assessment**= 40%+ 60%= 100%					

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
Week	**Material Covered**
Week 1	**Part 1 : General introduction to the site analysis method:** Description of the chosen site and an explanation of the most important differences between the reality of the proposed area for the project and the basic design, a study of the climate and its impact on the design (wind - temperature - rain - relative humidity - earthquakes) in addition to the movement of the sun and its impact on the site **Part 2 : Study of functional relationships , How to study movement, How to calculate project areas:** General functional relations . Special functional relationships for each part of the project Vertical movement: This includes stairs, elevators, and escape stairs . Horizontal movement: It includes movement within the corridors and their specifications, movement within the project and its types, Calculate the area of the partitions . Calculate the area of the secondary parts complementing the project . The general area table of the project . Study the parking space . **Part 3 : How to analyze a group of local and global examples:** In it, the functional style of these models is identified, and the movement used in the project is determined, as well as an analysis of how to deal with interfaces and ways of expressing the design idea.
Week 2	**sketches and design ideas:** This helps students strengthen communication and presentation skills in conveying architectural ideas effectively, and how to express their artistic choices and design concepts in a clear and concise manner, both verbally and visually.
Week 3	**Spatial Planning and Layout Design:** Analyzing and planning the spatial organization of the Aldar residential project, taking into account factors such as privacy, the presence of external activities such as a small playground or swimming pool, as well as interest in the proportions of spaces, and the development of floor plans and schematic sections.
Week 4	**Architectural details in the plans:** Focusing on the design aspects of the architectural scheme for multi-purpose halls, addressing sound, lighting, ventilation and accessibility requirements, and incorporating technical details into design development.
Week 5	**Dsign Architecture of Elevation :** Learn how to design architectural facades, and what are the most important elements that suit each project, by presenting a lecture on designing architectural facades.
Week 6	**Day sketch project:** Exam title: A sketch of a small project, or something that fits the vocabulary of the syllabus. Exam Description: During this exam, students will be given a specific design brief to create a diagram, interfaces, and sections. The purpose of this test is to assess students' ability to apply the knowledge and skills gained throughout the unit in creating an initial design concept.
Week 7	**Dsign Architecture of Section :** The sections describe the vertical relationships and help define the spatial characteristic of the building, the segmented figure shows the façade relationships in the voids .
Week 8	**Project design as a 3D model:** Create three-dimensional models using different materials, wood or cork, and other materials to give a sense of interaction between blocks and voids.
Week 9	**perspective drawing**

Week 10	Help the designer create depth, distance, and creativity. Three-dimensional images that appear on a two-dimensional surface. They provide an excellent graphic method for visualizing architectural design ideas.
Week 11	**Design Development and Refinement**
Week 12	Continuing the design development process based on feedback and critique sessions. Refining the architectural concept, spatial layout, and technical details. Creating 3D models, renderings.
Week 13	**Presentation and Finalization**:
Week 14	Prepare final presentation materials presenting the residential house design, presenting the design concept, spatial layout, and technical details of the horizontal and vertical plans. Completion of architectural drawings, presentations and documentation of the project.
Week 15	**Preparatory week before the final Exam**
Week 16	**Preparatory week before the final Exam**

Delivery Plan (Weekly lab. Syllabus) المنهاج الاسبوعي العملي	
Week	**Material Covered**
Week 1	**Part 1 : General introduction to the site analysis method:** Description of the chosen site and an explanation of the most important differences between the reality of the proposed area for the project and the basic design, a study of the climate and its impact on the design (wind - temperature - rain - relative humidity - earthquakes) in addition to the movement of the sun and its impact on the site **Part 2 : Study of functional relationships , How to study movement, How to calculate project areas:** General functional relations . Special functional relationships for each part of the project Vertical movement: This includes stairs, elevators, and escape stairs . Horizontal movement: It includes movement within the corridors and their specifications, movement within the project and its types, Calculate the area of the partitions . Calculate the area of the secondary parts complementing the project . The general area table of the project . Study the parking space . **Part 3 : How to analyze a group of local and global examples:** In it, the functional style of these models is identified, and the movement used in the project is determined, as well as an analysis of how to deal with interfaces and ways of expressing the design idea.
Week 2	**sketches and design ideas:** This helps students strengthen communication and presentation skills in conveying architectural ideas effectively, and how to express their artistic choices and design concepts in a clear and concise manner, both verbally and visually.
Week 3	**Spatial Planning and Layout Design:** Analyzing and planning the spatial organization of the Aldar residential project, taking into account factors such as privacy, the presence of external activities such as a small playground or swimming pool, as well as interest in the proportions of spaces, and the development of floor plans and schematic sections.
Week 4	**Architectural details in the plans:** Focusing on the design aspects of the architectural scheme for multi-purpose halls, addressing sound, lighting, ventilation and accessibility requirements, and incorporating technical details into design development.
Week 5	**Dsign Architecture of Elevation :** Learn how to design architectural facades, and what are the most important elements that suit each project, by presenting a lecture on designing architectural facades.
Week 6	**Day sketch project:** Exam title: A sketch of a small project, or something that fits the vocabulary of the syllabus. Exam Description: During this exam, students will be given a specific design brief to create a diagram, interfaces, and sections. The purpose of this test is to assess students' ability to apply the knowledge and skills gained throughout the unit in creating an initial design concept.
Week 7	**Dsign Architecture of Section :** The sections describe the vertical relationships and help define the spatial characteristic of the building, the segmented figure shows the façade relationships in the voids .
Week 8	**Project design as a 3D model:** Create three-dimensional models using different materials, wood or cork, and other materials to give a sense of interaction between blocks and voids.

Week 9	**perspective drawing**
Week 10	Help the designer create depth, distance, and creativity. Three-dimensional images that appear on a two-dimensional surface. They provide an excellent graphic method for visualizing architectural design ideas.
Week 11	**Design Development and Refinement**
Week 12	Continuing the design development process based on feedback and critique sessions. Refining the architectural concept, spatial layout, and technical details. Creating 3D models, renderings.
Week 13	**Presentation and Finalization**:
Week 14	Prepare final presentation materials presenting the residential house design, presenting the design concept, spatial layout, and technical details of the horizontal and vertical plans. Completion of architectural drawings, presentations and documentation of the project.
Week 15	**Preparatory week before the final Exam**
Week 16	**Preparatory week before the final Exam**

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**

Required Texts	- **Architectural Design and Construction Elements Book (Neufert):** It is a basic book for every architectural student, especially in the early stages of study. The book provides important architectural data and information that organizes the design and planning processes for various building projects. It includes many types of buildings (from airports to zoos) . It covers the requirements of the user, it contains the basic criteria for the design of dimensions and functional considerations, it contains additions specialized in the physics of buildings, fire protection, services and the requirements of people with special needs, most of the contents are clarified by dimensions, and each type of building includes its own plans and sections in addition to some important details. - **Time-Saver Standards for Building Types** : It provides comprehensive architectural information for a variety of structures, focusing on topical issues such as accessibility for people with disabilities, energy conservation, and environmental regulations. The book's material includes new topics such as home offices and recreational centers, in addition to traditional topics such as health care buildings, day care buildings, houses of worship in various forms, gymnasiums, government and public buildings, airports, and more. It is a really valuable guide to obtaining the technical data and design determinants of more than eighty types of buildings. In addition to that; It is suitable for architectural education programs, practitioners and professionals alike. - **Architectural Detailing book**: deals with functional, structural and aesthetic architectural details. - All architectural magazines, engineering websites, published research and documentaries related to design ideas and architectural projects.	
Recommended Texts	- **Building Types book:** deals with standard standards and basic requirements for different types of buildings. - **Architectural Design Data Book**: It deals with the standards and scientific basics of architectural design. - **Site Construction Details book**: deals with the standard and detailed standards for site construction. - **The book 101 Things I Learned in Architecture School**: It deals with many concepts related to the study of architecture, but in a simplified way, and removes ambiguity and complexity from it.	
Websites	- slideshare.net - e-architect.co.uk - visualizingarchitecture.com	

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

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

Architectural Design II جدول الساعات المجدولة وغير المجدولة

نوع النشاط	الساعات المجدولة SSWL	الساعات غير المجدولة USSWL	عدد الأسابيع	ساعة لكل أسبوع	العبء الكلي للنشاط
محاضرات	محاضرات في القاعات الدراسية		**15**	**2**	**30**
المختبر	دوام المختبر		0	0	0
مناقشات*	المناقشات		0	0	0
مشروع عملي*	مشروع عملي		15	6	90
		التهيئة للمشروع	0	0	0
تحضير الدروس اليومي		تحضير الدروس اليومي	**15**	**6**	**90**
العروض التقديمية*	القاء العرض التقديمي		0	0	0
		التهيئة للعرض التقديمي	0	0	0
الامتحانات اليومية	الامتحان		3	3	9

		التهيئة للامتحانات اليومية	0	0	0
امتحان نصف الفصل	الامتحان		0	0	0
		التهيئة للامتحان	0	0	0
امتحان نهاية الفصل	الامتحان		0	0	0
		التهيئة للامتحان	1	6	6
			العبء الكلي للمادة خلال الفصل:		**225**
			عدد الوحدات:		**9**
*لا توجد ساعات مجدولة لهذه النشاطات كون تم استيفاؤها ضمن الصفوف الدراسية.					

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية			
Module Title	**Structures I**	**Module Delivery**	
Module Type	**S**	**☒ Theory** **☐Lecture** **☐ Lab** **☐Tutorial** **☒ Practical** **☐ Seminar**	
Module Code	**WARB07**		
ECTS Credits	**4**		
SWL (hr/sem)	**100**		
Module Level	UGx11 2	**Semester of Delivery**	4
Administering Department	WAR	**College**	College of Engineering
Module Leader	Adil Mahdi Jabbar	**e-mail**	adilmahdi@uowasit.edu.iq
Module Leader's Acad. Title	Lecturer Dr.	**Module Leader's Qualification**	Ph.D.
Module Tutor		**e-mail**	

Peer Reviewer Name		**e-mail**	
Scientific Committee Approval Date	14/01/2025	**Version Number**	1.0

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	Physics	**Semester**	1
Co-requisites module	Structures II (RC Structures) & Structures III (Steel Structures)	**Semester**	5 & 6
Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية			
Module Objectives أهداف المادة الدراسية	8. This course deals with centroids, the center of gravity, and the moment of inertia for areas. 9. To define types of loading on beams, struts, and one-level frames. 10. To define the internal forces and moments developed in structural members for different beams or elements. 11. To identify shear force and bending moment in beams by section method. Besides drawing SFD and BMD. 12. To define the concept of stress and identify normal stress in axially loaded members, shear stress, and bending stresses in the beam section. 13. To define the concept of deformation and strain due to loads and temperature variation.		
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	10. Defining methods for calculating the centroid of curved and composite areas. 11. Defining the moment of inertia for shapes with areas under a curve or for shapes composed of regular areas. 12. Defining the internal forces that result from the use of external loads in the sections of beams, struts, or columns. 13. Defining the types of loading and supporting of the beams. 14. Definition of the concept of normal force, shear force, and bending moment inside the section of the beam. 15. Drawing the shear force and bending moment diagrams for beams, identifying the maximum values of them by section method, and transferring the shapes method. 16. Defining the stress types erected inside the members due to the external loads: normal and shear stresses. 17. Defining the bending stresses induced in the beam sections 18. Definition of the concept of deformation and strain in the members due to external loading and thermal strains.		
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. **Centroid and Center of Composite areas-** including defining the first moment of the area to find the centroid coordinates in x and y-directions. **[10hrs]**		

	Moment of inertia–inertia moment of a particle about the x and y-axis. Parallel axis theorem for an area, radius of gyration. Integration method, the inertia moment of regular areas and composite areas. **[15hrs]** **Internal forces in structural members**- using the section method to find the axial, shear force, and bending moment. [**10hrs]** **Shear and bending moment function**–types of beams according to supports, making sections, and using equilibrium equations to define shear and moment functions with respect to x-distance. **[15hrs]** **Shear force and bending moment diagrams** –drawing SFD and BMD for the loaded beam. **[20hrs]** **Stress** – normal, shear, and bending stresses in the beam section. **[15hrs]** **Strain** – deformation, and strain due to loading and thermal changes. **[15 hrs.]**

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The main strategy that will be adopted in presenting this module includes explaining the topics of the subject theoretically in class and encouraging students to participate in solving homework exercises. In addition to class participation by improved students' brainstorming skills through direct questions inside the class. As well as, periodic review of topics by students through conducting quick exams.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	4.0	**Structured SWL (h/sem)** الحمل الدراسي المنتظم للطالب خلال الفصل	63
Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	2.5	**Unstructured SWL (h/sem)** الحمل الدراسي غير المنتظم للطالب خلال الفصل	37
		Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**100**

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

Formative assessment	**Quizzes**	2	20% (20)	5, 9	LO #1-4, and 5-8
	Assignments	1	10% (10)	Continuous	All
	Projects / Lab.	0	-	-	-
	Report	1	10% (10)	11	Any topic of the subject
Summative assessment	**Midterm Exam**	2hr	10% (10)	12	LO #1 - #11
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
Week	**Material Covered**
Week 1	Centroid and center of gravity, Centroid of the area under the curve
Week 2	Centroid of the composite areas
Week 3	Moment of inertia of irregular area by integration
Week 4	Moment of inertia of regular areas, and the composite area. Application of moment of inertia
Week 5	Types of beams, types of loadings, types of supports. Internal forces in beams
Week 6	Normal, shear force, and bending moment in beam section. Formulation of functions.
Week 7	Shear force and bending moment diagrams
Week 8	Application of shear force and bending moment diagrams
Week 9	Stresses, definition, and types of stresses
Week 10	Normal stress in axially loaded members
Week 11	Shear stress, and bending stresses in beam sections
Week 12	Bending stresses in different shapes of beam sections
Week 13	Midterm Exam
Week 14	Deformation and strain in members and beams
Week 15	Thermal strain in members
Week 16	**Review and a preparatory week before the Final Exam**
	Final Exam

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	Mechanics of materials, R. C. Hibbeler, Prentice Hall	Yes
Recommended Texts	Mechanics of Materials, Egor Paul Popov, Prentice Hall	Yes

Grading Scheme مخطط الدرجات

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

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

جدول الساعات المجدولة وغير المجدولة لمادة الانشاءات 1 – الفصل الرابع

نوع النشاط	الساعات المجدولة SSWL	الساعات غير المجدولة USSWL	عدد الأسابيع	ساعة لكل أسبوع	العبء الكلي للنشاط
محاضرات	محاضرات في القاعات الدراسية		**15**	**3**	**45**
***المختبر**	دوام المختبر		0	0	0
مناقشات*	المناقشات		0	0	0
مشروع عملي	مشروع عملي		0	0	0
		التهيئة للمشروع	**1**	**4**	**4**
تحضير الدروس اليومي		تحضير الدروس اليومي	**14**	**2**	**28**
العروض التقديمية*	القاء العرض التقديمي		0	0	0
		التهيئة للعرض التقديمي	0	0	0
الامتحانات اليومية	الامتحان		**0**	**0**	**0**
		التهيئة للامتحانات اليومية	**2**	**3**	**6**
امتحان نصف الفصل	الامتحان		**0**	**0**	**0**
		التهيئة للامتحان	**1**	**5**	**5**

امتحان	الامتحان		**1**	**3**	**3**
نهاية الفصل		التهيئة للامتحان	**1**	**9**	**9**
			العبء الكلي للمادة خلال الفصل:		**100**
			عدد الوحدات:		**4**
*لا توجد ساعات مجدولة لهذه النشاطات كون تم استيفاؤها ضمن الصفوف الدراسية.					

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Creative & Drawing Skills II**			**Module Delivery**	
Module Type	**Core**			☐ **Theory** ☐ **Lecture** ☐ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**WARC13**				
ECTS Credits	**5**				
SWL (hr/sem)	**125**				
Module Level	UGI	**Semester of Delivery**	Two		
Administering Department	WAR	**College**	College of Engineering		
Module Leader	Juhaina Hamid Hasani Al-Saray	**e-mail**	jhasani@uowasit.edu.iq		
Module Leader's Acad. Title	Assist. Prof.	**Module Leader's Qualification**	Phd. in Architecture Engineering.		
Module Tutor	Ahmed Aqeel	**e-mail**	Email		
Peer Reviewer Name		**e-mail**			
Scientific Committee Approval Date	10\6\2023	**Version Number**	1.0		

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module		**Semester**	
Co-requisites module		**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	1. Developing the student's skills in using watercolors and posters Pastels and oil colors, with advanced techniques. 2. Developing the student's ability to control the implementation of complex shapes with advanced color techniques. 3. Practical practice on how to show projects through Endoscopes In colors And use them in design materials. 4. Strengthening the student's skill in converting what He thinks of an image that can Realizing it through free drawing. 5. Introducing the student to the most important artistic movements and Iraqi and Arab artists. This comes from: During theoretical lectures accompanied by a display Pictures of their work as well as the visits they make. It takes students to places where artworks are displayed inside Iraq. 6. Introducing the student to ceramic and sculpture materials and his sense of mass through some Exercises in clay and gypsum which It helps him increase his skill in presenting his projects. The designer, especially the three-dimensional, gives it a more beautiful and realistic image. 7. Enabling the student to deal with colors and their techniques according to the production needs of the completed artwork 8. Enabling the student to know how to choose the appropriate colors and analyze them according to the work needs 9. Enabling the student to read and analyze the completed artwork with an accurate scientific vision.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	• Enabling the student to deal with colors and their techniques according to the production needs of the completed artwork. • Enabling the student to know how to choose the appropriate colors and analyze them according to the work needs. • Enabling the student to read and analyze the completed artwork with an accurate scientific vision.
Indicative Contents المحتويات الإرشادية	• Enable the student to work with colors and techniques according to the production requirements of the completed artwork. • Enable the student to select and analyze appropriate colors based on the needs of the artwork. • Enable the student to evaluate and analyze completed artwork with precise scientific insight.

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	• Hands-On Learning: Practical workshops for color techniques and application. • Problem-Based Learning: Solving artistic challenges requiring color selection and analysis. • Observation and Analysis: Training students to analyze completed artworks scientifically. • Collaborative Learning: Group activities to choose and evaluate colors collectively. • Technology Integration: Using digital tools for experimenting and analyzing colors. • Project-Based Learning: Long-term projects involving color application in completed artworks. • Feedback and Reflection: Providing constructive feedback to refine color techniques. • Modeling: Demonstrating color selection and analysis by the instructor. • Theoretical Instruction: Teaching color theories and their visual and psychological impacts. Experimental Learning: Encouraging creative experimentation with colors and techniques.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	5	**Structured SWL (h/sem)** الحمل الدراسي المنتظم للطالب خلال الفصل	48
Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	6	**Unstructured SWL (h/sem)** الحمل الدراسي غير المنتظم للطالب خلال الفصل	77
		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
Formative assessment	Quizzes	-	-	-	-
	Assignments	20%	20%		All
	Projects / Lab.	20%	20%		All
	Report				
Summative assessment	Midterm Exam	3hr	10%		All
	Final Projects	6hr	20%		All
	Final Exam	3hr	30%		All
Total assessment			100%		

Formative assessment: The project (Analysis & Programming Stage, concept & Prelim, Pre-Final) = 40%
Summative assessment: Midterm Exam 10%+ Final project 20%+ Final Exam (day-sketch) 30% =60%
Total assessment= 40%+ 60%= 100%

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
Week	**Material Covered**
Week 1	Topic: Introduction to Modern Watercolor Painting. Details: Principles of watercolor painting, types, brushes, and cartons with direct application.
Week 2	Topic: Extracting Binary and Tertiary Colors. Details: Practice extracting and emphasizing the intensity of colors.
Week 3	Topic: Extracting Light Values (Tones). Details: Introduction to the color wheel, comparing light values, and live drawing of monochromatic still life with a background based on a single light source.
Week 4	Topic: Continuation of Light Values (Tones). Details: Reinforcing tone extraction and live monochromatic still life drawing.
Week 5	Topic: Daily Test and Still Life Exercise. Details: Single-color drawing and still life exercise with natural colors and background.
Week 6	Topic: Advanced Still Life and Composition Lecture. Details: Still life exercise using watercolors without black and white pigments, followed by a lecture on composition and structure in painting.
Week 7	Topic: Color Reflections in Materials. Details: Drawing a still life composition using plants.
Week 8	Topic: Drawing Trees from Nature. Details: Watercolor painting of trees observed from nature.
Week 9	Topic: Evaluation. Details: Assessment of exercises and progress from previous weeks.
Week 10	Topic: Study of Building Perimeters and Landscapes. Details: Exploring building perimeters as part of a panoramic site study in varying depths.
Week 11	Topic: Drawing Building Surroundings. Details: Watercolor drawing of the surrounding environment of buildings.
Week 12	Topic: Basics of Perspective in Buildings. Details: Single-point perspective drawing of a building in watercolors, avoiding primary black and white pigments.
Week 13	Topic: Advanced Perspective Techniques. Details: Reinforcing single-point perspective drawing in watercolors.
Week 14	Topic: Techniques for Special Materials. Details: Exercises on drawing shiny materials, reflections, and glass.
Week 15	Topic: Final Exam. Details: Comprehensive assessment of the semester’s work.
Week 16	final exam

Delivery Plan (Weekly Practical Syllabus) المنهاج الاسبوعي للجزء العملي	
	Material Covered
Week 1	Introduction to modern watercolor painting principles, types, brushes, and cartons with direct application.
Week 2	Extracting binary and tertiary colors with exercises to emphasize color intensity.
Week 3	Extracting light values (tones) using the color wheel and comparing colors based on their possible light values. Live monochromatic still life drawing with a single light source and background.
Week 4	Continuation of extracting light values (tones) and live monochromatic still life drawing with a single light source and background.
Week 5	Daily test involving single-color drawing and a still life exercise using natural colors with a background.
Week 6	Still life exercise using watercolors, avoiding black and white pigments, followed by a lecture on composition and structure in painting.
Week 7	Exercises on color reflections in materials by drawing a still life composition with plants.
Week 8	Drawing trees from nature using watercolors.
Week 9	Evaluation of previous lab exercises and overall progress.
Week 10	Study of building perimeters and landscapes as an integral part of the building (site panorama) in varying depths.
Week 11	Drawing the surrounding environment of buildings in watercolors.
Week 12	Introduction to perspective basics in buildings (single vanishing point) with a watercolor exercise, avoiding black and white pigments.
Week 13	Advanced perspective exercise: single vanishing point building drawing in watercolors.
Week 14	Techniques for special materials such as shiny surfaces, reflections, and glass.
Week 15	First semester final exam.
Week 16	final exam

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	- Perspective Made Easy - Drawing on the Right side of the Brain	Yes
Recommended Texts	**"The Art of Line Drawing: A Practical Guide to Mastering the Elements of Sketching" by Thomas Wang:** This book focuses on developing hand control in line drawing. It offers theoretical insights into techniques for drawing different types of lines and exercises to enhance precision and accuracy. **"Perspective Drawing Handbook" by Joseph D'Amelio:** This handbook covers the theoretical aspects of perspective drawing, including principles of perspective for geometric shapes. It also provides practical guidance on drawing geometric shapes from various angles using perspective techniques. **"The Complete Guide to Shading and Drawing Techniques" by Giovanni Civardi:** This comprehensive guide explores theoretical concepts and techniques for shading with graphite pencils. It teaches light manipulation and offers practical demonstrations and exercises to create shadow and light effects. **"Freehand Sketching: An Introduction" by Paul Laseau:** This book delves into the theoretical and practical aspects of approximating free forms into recognizable geometric shapes. It guides students in using perspective techniques to create depth and abstraction in their drawings.	Yes
Websites		

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

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**BIM-Building Construction I**			**Module Delivery**	
Module Type	**C**			☒ **Theory** ☐**Lecture** ☐ **Lab** ☐**Tutorial** ☒ **Practical** ☐ **Seminar**	
Module Code	**WARB08**				
ECTS Credits	**6**				
SWL (hr/sem)	**100**				
Module Level	UGx11 UGII		**Semester of Delivery**	4	
Administering Department	WAR		**College**	College of Engineering	
Module Leader	Haider Majid Hasan		**e-mail**	hmajid@uowasit.edu.iq	
Module Leader's Acad. Title	Lecturer Dr.		**Module Leader's Qualification**	Ph.D.	
Module Tutor	Asst. Lect. Ahmed Rady		**e-mail**	xxxxxxx@uowasit.edu.iq	
Peer Reviewer Name			**e-mail**		
Scientific Committee Approval Date	16/06/2023		**Version Number**	1.0	

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	Building Construction I	**Semester**	3

Co-requisites module	Building Construction II	Semester	5

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	1. The student is acquainted with some aspects of technical systems related to building information that the architect must know in order to develop his structural design ability. 2. The student is acquainted with the building and construction systems in general, and then infiltrates the knowledge and in a way that suits the way the architect perceives his building as an environmental envelope that enjoys durability, beauty and environmental protection related in terms of form and content to the activities and the basic and secondary functions of the building through understanding and realizing the information of its basic and secondary elements and its complementary components up to Realizing the understanding of the building as a whole and in general. 3. The focus is on the solid structural system and the bonding of the brick material to form the wall, which qualifies it to realize the structural and operational processes. This practical part deals with ways of expressing structural problems in an architectural language as an application of theoretical material. The study includes on-site visits for the student to learn about the building reality. Due to the limited time and the breadth of the material provided to the student, each student is assigned to follow up the process of building a house and prepare a report on that to increase the knowledge base of the student from the practical and executive side.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. The ability to create technical systems and related to building information that the architect should know in order to develop his structural design ability. 2. The ability to design building and construction systems in general, and in a way that suits the way the architect perceives his building as an environmental envelope that enjoys durability, beauty and environmental protection, related in terms of form and content to the basic and secondary activities and functions of the building and its complementary components. 3. The ability to design the solid structural system and connect the brick material to form the wall qualifies him to realize the structural and operational processes.
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. Part A: Building and Construction Theory Connectivity of all kinds Wall, its types, ceiling, flatness and floors Part B - Practical

	Project No. 1: Preparation of designs for an integrated residential building

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The main strategy that will be adopted in presenting this module includes explaining the theoretical topics of the subject in class with the participationofstudents in introducing the topics.As well as periodic review of topics by students through conducting quick exams. For the practical side, the diagram and details are explained in class, then the students start drawing via Rivet software the required plans and details. Then, thedrawings are evaluated, and deficiencies and negatives are diagnosed and returned to the students. Then the students present the final plans in the form of an integrated project. All practical works are performed via Revit software.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	93	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	6
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	57	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	5
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**150**		

Module Evaluation تقييم المادة الدراسية					
	As	**Time/Number**	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	2	10% (10)	5, 10	LO #1, 2, and 3-5
	Assignments	2	10% (10)	Continuous	All
	Projects / Lab.	1	20% (20)	Continuous	All
	Report	0	-	-	-
Summative assessment	**Midterm Exam**	2hr	10% (10)	11	LO #1 - #5
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
Week	**Material Covered**
Week 1	- Preparing the work environment for the project.
Week 2	- Create a conceptual model.
Week 3	- Create basic elements (walls, floors, ceilings).
Week 4	- Adding structural elements such as columns and beams.
Week 5	Exam
Week 6	Preparing a structural model integrated with the architectural design.
Week 7	- Analysis of structural elements in BIM.
Week 8	- Use formatting tools (Navisworks or Dynamo).
Week 9	Exam
Week 10	- Improving construction processes using the fourth dimension.
Week 11	- Create cost analysis reports.
Week 12	Enter specifications.
Week 13	- How to present the project professionally using BIM.
Week 14	An integrated application project to create an architectural model containing all the studied dimensions (3D to 6D).
Week 15	**Review and a preparatory week before the Final Exam**
Week 16	**Final Exam**

Delivery Plan (Weekly Practical Syllabus) المنهاج الاسبوعي للعملي	
Week	**Scheme Covered**
Week 1	- Preparing the work environment for the project.
Week 2	- Create a conceptual model.
Week 3	- Create basic elements (walls, floors, ceilings).
Week 4	- Adding structural elements such as columns and beams.
Week 5	Exam
Week 6	Preparing a structural model integrated with the architectural design.
Week 7	- Analysis of structural elements in BIM.
Week 8	- Use formatting tools (Navisworks or Dynamo).
Week 9	Exam
Week 10	- Improving construction processes using the fourth dimension.
Week 11	- Create cost analysis reports.
Week 12	Enter specifications.
Week 13	- How to present the project professionally using BIM.

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**

Required Texts	كتاب : تركيب المباني – المؤلف: عاطف السهيري كتاب : انشاء مبانيي – المؤلف انيس جواد	Yes
Recommended Texts	Drawings of the project	yes

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

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

جدول الساعات المجدولة وغير المجدولة لمادة

BIM-Building Construction I

نوع النشاط	الساعات المجدولة SSWL	الساعات غير المجدولة USSWL	عدد الأسابيع	ساعة لكل أسبوع	العبء الكلي للنشاط
محاضرات	محاضرات في القاعات الدراسية		**15**	**2**	**30**
المختبر	دوام المختبر		0	0	0
مناقشات*	المناقشات		0	0	0
مشروع عملي*	مشروع عملي		15	4	60
		التهيئة للمشروع	15	2	30
تحضير الدروس اليومي		تحضير الدروس اليومي	**15**	**1**	**15**
	القاء العرض التقديمي		0	0	0

العروض التقديمية*		التهيئة للعرض التقديمي	0	0	0
الامتحانات اليومية	الامتحان		**0**	**0**	**0**
		التهيئة للامتحانات اليومية	**2**	**2**	**4**
امتحان نصف الفصل	الامتحان		**0**	**0**	**0**
		التهيئة للامتحان	**2**	**2**	**4**
امتحان نهاية الفصل	الامتحان		**1**	**3**	**3**
		التهيئة للامتحان	**1**	**4**	**4**
			العبء المجدول **العبء غير المجدول** **العبء الكلي للمادة خلال الفصل:**		**93** **57** **150**
			عدد الوحدات:		**6**

*لا توجد ساعات مجدولة لهذه النشاطات كون تم استيفاؤها ضمن الصفوف الدراسية.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	Surveying			**Module Delivery**	
Module Type	WARB06			☒ **Theory** ☐ **Lecture** ☐ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**E**				
ECTS Credits	2.00				
SWL (hr/sem)	**50**				
Module Level	UGII	**Semester of Delivery**	3		
Administering Department	WAR	**College**	College of Engineering		
Module Leader	Haider Majid Hasan	**e-mail**	hmajid@uowasit.edu.iq		
Module Leader's Acad. Title	Assistant Prof.	**Module Leader's Qualification**	Ph.D. in Urban planning Eng.		
Module Tutor		**e-mail**			
Peer Reviewer Name		**e-mail**			
Scientific Committee Approval Date	20\6\2023	**Version Number**	1.0		

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	Non	**Semester**	
Co-requisites module		**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	1. Finding the ability to deal and understand with survey work in practical locations, 2. Identifying engineering concepts within the field of surveying engineering related to architectural engineering work through design, implementation and work auditing. 3. Identifying sites and visualizing their phenomena in a preliminary manner without the need for a field visit and reconnaissance. This subject is considered as an informational base for the student for the purposes of field studies on the subject of housing in the fourth academic year and the subject of urban design in the fifth academic year.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. The ability to deal and understand with survey work in practical locations. 2. The ability to link engineering concepts within the field of surveying engineering related to architectural engineering work through design, implementation, and work auditing. 3. The ability to control sites and visualize their phenomena in a preliminary manner without the need for field visits and reconnaissance.
Indicative Contents المحتويات الإرشادية	The instructions include three parts The first part includes a general definition of area geometry, the concept of a point, methods of determining regular and irregular areas, and how to calculate them through applied examples. The second part includes identifying directions and their types, the relationship between them, how to convert between them, defining the angle, the method of measuring it and its types. The third part includes determining the locations of points, how to reference points, the importance of obtaining ground control points, and how to locate buildings and facilities from plans to reality and vice versa. The fourth part includes calculating coordinates based on distance and direction, and calculating directions based on coordinates The fifth part is to identify errors caused in field measurements The last part includes the definition of elevations, how to represent them, and methods for determining longitudinal and transverse sections

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	Explaining theoretical lectures and clarifying them through presentations, encouraging students to discuss in class to improve their skills, and urging them to express their self-opinion and constructive criticism. Exchanging a set of questions regarding the lesson as brainstorming for the student. Lesson requirements vary between lecture, questions, homework, and reports

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	2	**Structured SWL (h/sem)** الحمل الدراسي المنتظم للطالب خلال الفصل	33
Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	2	**Unstructured SWL (h/sem)** الحمل الدراسي غير المنتظم للطالب خلال الفصل	17
		Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**50**

Module Evaluation تقييم المادة الدراسية					
	As	**Time/Number**	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	2	10% (10)	5 and 10	All
	Assignments	2	10% (10)	9-14	LO #8 - #14
	Projects / Lab.	0	-	-	-
	Report	1	20% (20)	13	All
Summative assessment	**Midterm Exam**	2hr	10% (10)	7	LO #1 - #5
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
Week	**Material Covered**
Week 1	Definition of space engineering, the concept of point and line, and the relationship of theoretical representation to reality, fields that can be employed in the service of architecture.
Week 2	Methods for determining regular areas with non-standard condition, irregular areas, and how to calculate those areas through applied examples, analysis of laws that can be used to find regular and irregular areas, dealing with different area units and conversion methods between them.
Week 3	Determining directions and types of directions, the relationship between quadrant, circular and semi-circular directions, and how to convert between them.
Week 4	Definition of angle, method of angle measurement, reflection of angles and their corrections on the accuracy of field work, comparison between types of angles, the specificity of their work, and methods of mathematical conversion between them.
Week 5	How to locate a point in geographical dimensions, how to refer to points, what are the relationships between points, the importance of obtaining control points and how to deal with them.
Week 6	Defining the concepts of a straight line and its extensions, with the geometric connection between the point and the line.
Week 7	Finding the coordinates of the unknown points by knowing the coordinates of one point, relying on a default reference in the unknown points
Week 8	How to sign buildings and facilities from the plans to reality, with the mechanism reversed by uploading the existing facilities to the plans and creating site maps.
Week 9	Calculating coordinates based on distance and direction and making binding corrections to avoid errors resulting from field observations.
Week 10	Calculating different directions and distances based on the defined coordinates and applying corrective operations on them.
Week 11	Learn about the most important errors resulting from field measurements and how to get rid of them and reduce their effects.
Week 12	Reading the map and identifying the most important main joints in it, distinguishing the phenomena and differentiating between those that can be adopted according to the real scale whose representation methods are symbolic only, inferring from the map on the locations and defining directions to be adopted as a reference in the field.
Week 13	Definition of elevations and how to represent them, types of contour lines and the possibility of benefiting from them .
Week 14	Methods of determining longitudinal and transverse sections and reversing the possibility of reading elevations with the benefit of them in completing designs and determining the nature of the site and the specificity of the work that it requires.
Week 15	**Preparatory week before the final Exam**
Week 16	**final Exam**

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	كتاب : المساحة الهندسية	نعم
Recommended Texts	كتاب :تطبيقات المساحة الهندسية	نعم
Websites		

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

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

Surveying جدول الساعات المجدولة وغير المجدولة لمادة

نوع النشاط	الساعات المجدولة SSWL	الساعات غير المجدولة USSWL	عدد الأسابيع	ساعة لكل أسبوع	العبء الكلي للنشاط
محاضرات	محاضرات في القاعات الدراسية		**15**	**2**	**30**
المختبر	دوام المختبر		0	0	0
مناقشات*	المناقشات		0	0	0
مشروع عملي*	مشروع عملي		0	0	0
		التهيئة للمشروع	0	0	0
تحضير الدروس اليومي		تحضير الدروس اليومي	**15**	**0.4**	**6**

العروض التقديمية*	القاء العرض التقديمي		0	0	0
		التهيئة للعرض التقديمي	0	0	0
الامتحانات اليومية	الامتحان		**0**	**0**	**0**
		التهيئة للامتحانات اليومية	**2**	**2**	**4**
امتحان نصف الفصل	الامتحان		**0**	**0**	**0**
		التهيئة للامتحان	**1**	**2**	**2**
امتحان نهاية الفصل	الامتحان		**1**	**3**	**3**
		التهيئة للامتحان	**1**	**5**	**5**
			العبء المجدول مع الامتحان: **العبء غير المجدول :** **العبء الكلي للمادة خلال الفصل**		**33** **17** **50**
			عدد الوحدات:		**2**

*لا توجد ساعات مجدولة لهذه النشاطات كون تم استيفاؤها ضمن الصفوف الدراسية.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Computer Science 2**			**Module Delivery**	
Module Type	Basic			☒**Theory** ☐ **Lecture** ☒ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	WU22				
ECTS Credits	**3**				
SWL (hr/sem)	**75**				
Module Level	UGI		**Semester of Delivery**	One	
Administering Department	WAR	**College**	College of Engineering		
Module Leader	Hala Abdul Adeem Naman	**e-mail**	haltee@uowasit.edu.iq		
Module Leader's Acad. Title	Lecturer	**Module Leader's Qualification**	PH.D in information and communication Eng.		
Module Tutor		**e-mail**			
Peer Reviewer Name		**e-mail**			
Scientific Committee Approval Date		**Version Number**	1.0		

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

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	Students successfully completing this course will be able to: 1. Utilize the computer for fundamental tasks. 2. Identify and discuss the hardware components of the computer system. 3 . Creating documents using a word processor and creating presentations. 4. Conducting research on the Internet. 5. An introduction to Artificial Intelligence
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	13. Diagnose and resolve common hardware and software issues using basic troubleshooting techniques and tools. 14. Configure basic network components and implement security measures to protect against common threats. 15. Demonstrate the use of AI-powered tools in daily tasks, such as virtual assistants, and explore their practical applications. 16. Apply basic AI concepts to identify potential solutions in areas like healthcare, finance, and education. 17. Critically analyze different types of networks and assess their suitability for specific purposes or environments. 18. Evaluate the importance of network security in protecting data and systems from evolving threats. 19. Interpret the role of e-commerce in modern society, including the impact of electronic banking on business and personal transactions.
Indicative Contents المحتويات الإرشادية	Part A: Security and Networking (25 hr) Part B: E- Commerce (10 hr) Part C: AI (40 hr)

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	Teaching methods The course will use the following teaching and learning methods • Board (Normal or Smart) • Computers • Presentation software such as PowerPoint

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	3	**Structured SWL (h/sem)** الحمل الدراسي المنتظم للطالب خلال الفصل	48
Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	2	**Unstructured SWL (h/sem)** الحمل الدراسي غير المنتظم للطالب خلال الفصل	27
		Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	**75**

Module Evaluation تقييم المادة الدراسية					
As		**Time/Number**	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	3	5% (5)	4, 6, 10	All
	Homework	1	5% (5)	Continuous	All
	Projects / Lab.	1	5% (5)	Continuous	All
	Lab	3	5%(5)	Continuous	All
Summative assessment	**Midterm Exam**	2hr	10% (10)	7	All
	Final Exam	3hr	50% (50)	16	All
Total assessment			100		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
Week	**Material Covered**
Week 1	Security and Networking: What is a network? Types of networks. Basic network
Week 2	E-Commerce: Concepts of Electronic banking services this include online
Week 3	Computer Troubleshooting: Identifying and solving common hardware a n d
Week 4	Computer Troubleshooting: Identifying and solving common hardware a n d
Week 5	Introduction t o Al: Definition of Al, History of Al, Al Techniques and
Week 6	Introduction t o Al: Definition of Al, History of Al, Al Techniques and
Week 7	Al in Our Daily Lives: Al in smartphones and virtual assistants like Siri or Google
Week 8	Al in Our Daily Lives: Al in smartphones and virtual assistants like Siri or Google Assistant.)
Week 9	Applications of Al: Education, Healthcare, Finance, Transportation, Marketing and Advertising
Week 10	Applications of Al: Education, Healthcare, Finance, Transportation, Marketing and
Week 11	Applications of Al: Education, Healthcare, Finance,Transportation, Marketing and
Week 12	Al and Society: (How Al affects social, Al and international relations, Al and the
Week 13	Ethical Challenges in Al (Al ethics, privacy and surveillance, the impact of Al on
Week 14	The Future o f Al (Future trends in Al, recent research and emerging technologies.)
Week 15	**Review and a preparatory week before the Final Exam**
Week 16	Final Exam

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
Week	**Material Covered**
Week 1	Security and Networking: What is a network? Types of networks. Basic network components. Network Security Basics. Understanding network threats. Network Troubleshooting
Week 2	E-Commerce: Concepts of Electronic banking services this include online banking: ATM and debit card services, Phone banking, SMS banking, electronic alert, Mobile banking
Week 3	Computer Troubleshooting: Identifying and solving common hardware a n d software problems that computer users encounter. Basic troubleshooting techniques and tools for diagnosing and resolving issues.
Week 4	Computer Troubleshooting: Identifying and solving common hardware a n d software problems that computer users encounter. Basic troubleshooting techniques and tools for diagnosing and resolving issues.
Week 5	Introduction t o Al: Definition of Al, History of Al, Al Techniques and Approaches, Challenges and Ethical Considerations.
Week 6	Introduction t o Al: Definition of Al, History of Al, Al Techniques and Approaches, Challenges and Ethical Considerations.
Week 7	Al in Our Daily Lives: Al in smartphones and virtual assistants like Siri or Google Assistant.)
Week 8	Al in Our Daily Lives: Al in smartphones and virtual assistants like Siri or Google Assistant.)
Week 9	Applications of Al: Education, Healthcare, Finance, Transportation, Marketing and Advertising
Week 10	Applications of Al: Education, Healthcare, Finance, Transportation, Marketing and Advertising.
Week 11	Applications of Al: Education, Healthcare, Finance,Transportation, Marketing and Advertising. Transportation, Marketing and Advertising.
Week 12	Al and Society: (How Al affects social, Al and international relations, Al and the future of humanity.)
Week 13	Ethical Challenges in Al (Al ethics, privacy and surveillance, the impact of Al on the job market.)
Week 14	The Future of Al (Future trends in Al, recent research and emerging technologies.)

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	1-Graham Brown, David Watson, "Cambridge IGCSE Information and Communication Technology", 3rd Edition (2020) 2- Ahmed Banafa, "Introduction to Artificial Intelligence (AI)", 1st Edition (2024).	No
Recommended Texts	Alan Evans, Kendall Martin, Mary Anne Poatsy, "Technology In Action Complete", 16th Edition (2020).	No
Websites		

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

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

جدول الساعات المجدولة و غير المجدولة لمادة

Computer Skills

نوع النشاط	الساعات المجدولة SSWL	الساعات غير المجدولة USSWL	عدد الأسابيع	ساعة لكل أسبوع	العبء الكلي للنشاط
محاضرات	محاضرات في القاعات الدراسية		15	1	15
المختبر	دوام المختبر		15	2	30

مناقشات	المناقشات		0	0	0
مشروع عملي	مشروع عملي		0	0	0
		التهيئة للمشروع	0	0	0
انجاز الواجب البيتي		تحضير المشاريع البيتية	3	1	3
العروض التقديمية	القاء العرض التقديمي		0	0	0
		التهيئة للعرض التقديمي	0	0	0
الامتحانات اليومية		التهيئة للامتحانات اليومية	3	2	6
امتحان نصف الفصل	الامتحان		0	0	0
		التهيئة للامتحان	1	6	6
امتحان نهاية الفصل	الامتحان		1	3	3
		التهيئة للامتحان	1	12	12
			العبء الكلي للمادة خلال الفصل:		75
			عدد الوحدات:		3
*لا توجد ساعات مجدولة لهذه النشاطات كون تم استيفاؤها ضمن الصفوف الدراسية.					

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**English Language II**			**Module Delivery**	
Module Type	**B**			**☒Theory** **☐ Lecture** **☐ Lab** **☐ Tutorial** **☐ Practical** **☐ Seminar**	
Module Code	**WARS05**				
ECTS Credits	**2**				
SWL (hr/sem)	**50**				
Module Level	UGII	**Semester of Delivery**	Four		
Administering Department	WAR	**College**	College of Engineering		
Module Leader	Zahraa Hasan Mutar	**e-mail**	zahraa.mutar@uowasit.edu.iq		
Module Leader's Acad. Title	Lecturer	**Module Leader's Qualification**	Ph.D.		
Module Tutor		**e-mail**			
Peer Reviewer Name		**e-mail**			
Scientific Committee Approval Date	16\1\2025	**Version Number**	1.0		

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module		**Semester**	
Co-requisites module		**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	1. Improve understanding of sentences and frequently used expressions related to architectural engineering area. 2. Improve communication in simple and routine tasks requiring simple and direct exchange of information on familiar topics. 3. Produce simple connected text on architectural engineering topics. 4. Improve vocabulary. This includes the ability to recognize the meaning of words in engineering field. 5. Improve grammar rules through a variety of activities, such as sentence construction, grammar exercises, and grammar explanations. 6. Develop listening and reading comprehension skills.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. Understand sentences and frequently used expressions in architectural engineering area. 2. Acquire skills of communication in simple and routine tasks. 3. Produce simple connected text on engineering topics. 4. Use a wider range of vocabulary and grammar to communicate in more complex situations. 5. Develop listening, speaking, reading, and writing skills further. 6. Gain understanding of architectural expressions.
Indicative Contents المحتويات الإرشادية	Part A: Grammar (12.5 hr) Part B: Reading (12.5 hr) Part C: Writing (12.5 hr) Part D: Speaking (12.5 hr)

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	• Present theoretical lectures and determine the information that is most significant by extracting keywords and ideas. • Students are given opportunities to produce language, and receive direct feedback to improve their language skills.

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

Module Evaluation تقييم المادة الدراسية					
As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	4	20% (5)	3, 5, 10 and 12	all
	Assignments	0	0		
	Projects / Lab.	-	-		
	Report	2	20% (10)	continues	all
Summative assessment	Midterm Exam	2 hr	10% (10)	7	
	Final Exam	2 hr	50% (50)		
Total assessment			100%		

Delivery Plan (Weekly Syllabus) المنهج الاسبوعي النظري	
Week	**Material Covered**
Week 1	Unit 1: Grammer (Verb to be, Possessive adjectives) Vocabulary (Engineering and architectural terms)
Week 2	Unit 2: Grammer (Verb to be: questions and negatives; negatives and short answers; Possessive 's) Reading and discussing architectural passages
Week 3	Unit 3 and 4: Grammer (Present simple 1: questions and negatives; Present simple 2) **Quizzes**
Week 4	Unit 5: Grammer (There is/are; How many..?; Prepositions of place; some and any; this, that, these, those) Writing: how to write a composition
Week 5	Unit 6: Grammer (can/can't; was/were; could) Vocabulary (Engineering and architectural terms) **Quizzes**
Week 6	Unit 7: Grammer (Past simple 1: Regular verbs; Irregular verbs; Time expressions) Reading and discussing architectural passages Writing: how to write a composition
Week 7	**Mid Exam**
Week 8	Unit 8: Grammer (Past simple 2: Negatives and ago; Time expressions) Vocabulary (Engineering and architectural terms)
Week 9	Unit 9: Grammer (Count and uncount nouns; Do you like..?/ would you like..?; a and some; much and many) Writing: how to write a composition
Week 10	Unit 10: Grammer (Comparatives and superlatives; have got) Reading and discussing architectural passages **Quizzes**
Week 11	Unit 11: Grammer (Present continuous; Whose is it; possessive pronouns) Writing: how to write a composition
Week 12	Unit 12: Grammer (going to; Infinitive of purpose) Reading and discussing architectural passages **Quizzes**
Week 13	Unit 13: Grammer (Question forms; Adverbs and adjectives) Writing: how to write a composition
Week 14	Unit 14: Grammer (Present perfect: ever and never/ yet and just; Present perfect and past simple) Reading and discussing architectural passages Writing: how to write a composition
Week 15	**Preparatory week before the final Exam**
Week 16	**Exam**

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

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	New Headway-Elementary –By Liz and John Soars	Yes
Recommended Texts		
Websites		

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

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

جدول الساعات المجدولة وغير المجدولة لمادة اللغة الانكليزية – الفصل الثاني

نوع النشاط	الساعات المجدولة SSWL	الساعات غير المجدولة USSWL	عدد الأسابيع	ساعة لكل أسبوع	العبء الكلي للنشاط
محاضرات	محاضرات في القاعات الدراسية		**15**	**2**	**30**
المختبر	دوام المختبر		0	0	0
مناقشات*	المناقشات		0	0	0
مشروع عملي*	مشروع عملي		0	0	0
		التهيئة للمشروع	0	0	0
تحضير الدروس اليومي		تحضير الدروس اليومي	**15**	**0.5**	**7.5**
العروض التقديمية*	القاء العرض التقديمي		0	0	0
		التهيئة للعرض التقديمي	0	0	0
الامتحانات اليومية	الامتحان		**0**	**0**	**0**
		التهيئة للامتحانات اليومية	**4**	**0.5**	**2**
امتحان نصف الفصل	الامتحان		**0**	**0**	**0**
		التهيئة للامتحان	**1**	**3**	**3**
امتحان نهاية الفصل	الامتحان		**1**	**3**	**3**
		التهيئة للامتحان	**1**	**4.5**	**4.5**
			العبء الكلي للمادة خلال الفصل:		**50**
			عدد الوحدات:		**2**

*لا توجد ساعات مجدولة لهذه النشاطات كون تم استيفاؤها ضمن الصفوف الدراسية.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	اللغة العربية			**Module Delivery**	
Module Type	S			☒ Theory ☐ Lecture ☐ Lab ☐ Tutorial ☐ Practical ☐ Seminar	
Module Code	WARS05				
ECTS Credits	2				
SWL (hr/sem)	50				
Module Level	UGII		**Semester of Delivery**	one	
Administering Department	WAR		**College**	College of Engineering	
Module Leader	زينب دايخ مطر		**e-mail**	Zainabaleanzy@uowasit.edu.iq	
Module Leader's Acad. Title	مدرس		**Module Leader's Qualification**	PhD.	
Module Tutor			**e-mail**		
Peer Reviewer Name	مشتاق كاظم جمعة		**e-mail**	mjmaah@uowasit.edu.iq	
Scientific Committee Approval Date			**Version Number**	1.0	

Relation with other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	لا يوجد	**Semester**	
Co-requisites module	لا يوجد	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	تنبيه الطلبة بأهمية اللغة العربية في تنمية القدرات والمهارات الاتصالية بين المتكلم والمتلقي. -13 تمكن الطلبة من التحدث بلغة عربية سليمة وتجنب الأخطاء الإملائية واللغوية الشائعة. -14 كتابة التقارير والمقالات والمخاطبات الرسمية باللغة العربية و بشكل انسيابي و دقيق و منظم. -15 تعريف الطلبة بالكتابة والقراءة الصحيحة . -16 تواصل الطلبة مع لغتهم الأم. -17 تطوير قابلية الطلبة على أداء اللغة والقائها بصورة سليمة في المحافل المختلفة . -18 .
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	:عند الانتهاء من هذا الفصل، سيكون الطلاب قادرين على .رفع مستوى الكفاءة التعبيرية الشفهية والكتابية لدى الطلبة -13 قدرة الطلبة على تحليل وفهم النصوص الشعرية والنثرية. -14 تعرف الطلبة على مفردات لغوية تسهم في إثرائهم المعرفي في تخصصهم الهندسي. -15 إظهار فهم الطلبة لأهمية اللغة العربية في لغة التخاطب والتعبير عن اهتماماتهم الثقافية والفكرية. -16 تمكن الطلبة من قراءة القرآن الكريم بصورة صحيحة. -17 تساهم في زيادة معرفة الطلاب بكيفية كتابة البحوث العلمية وفق المنهج الاكاديمي والمخاطبات الرسمية -18 والحد من ظاهرة الاخطاء اللغوية .
Indicative Contents المحتويات الإرشادية	Part A: Grammar (12.5 hr) Part B: Reading (12.5 hr) Part C: Writing (12.5 hr) Part D: Speaking (12.5 hr)

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	• شرح المادة النظرية للطلبة بشكل تفصيلي. • مشاركة الطلبة في المناسبات والمهرجانات الخطابية في المجتمع الأكاديمي. • إشاعة روح التعاون والعمل الجماعي بين الطلبة.

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

Module Evaluation تقييم المادة الدراسية					
As		**Time/Number**	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	2	20%	7, and 11	All
	Assignments	2	10%	6 and 12	
	Projects / Lab.	-	-		
	Report	1	10%	9	All
Summative assessment	**Midterm Exam**	2hr	10%	10	المخرجات التعلم ستكون مشمولة بهذا الامتحان: 1-رفع مستوى الكفاءة التعبيرية الكتابية لدى الطلبة. 2-يساهم في تنمية القدرة على الحصول على المعلومات العامة والأساسية في اللغة العربية. 3- التعرف على التعبيرات اللغوية والأدبية والقدرة على تحليل النصوص وفهم المعاني. 6-يساهم في زيادة معرفة الطلاب بكيفية تجنب الأخطاء الإملائية في الكتابة.
	Final Exam	2hr	50%		All
Total assessment			100%		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
Week	**Material Covered**
Week 1	القواعد: التمييز
Week 2	القواعد: اسم الإشارة
Week 3	القواعد: النسب
Week 4	قواعد : جمع التكسير
Week 5	قواعد: حروف الجر
Week 6	القواعد: أنواع الواو في اللغة العربية
Week 7	الاملاء: الفرق بين التاء المربوطة والتاء المفتوحة
Week 8	الاملاء: الحروف التي تحذف عند الكتابة
Week 9	الاملاء: الأخطاء اللغوية الشائعة
Week 10	امتحان
Week 11	الاملاء: المخاطبات الرسمية
Week 12	الأدب: – الشاعر دعبل الخزاعي (اسمه ونسبه وحياته), وتحليل الخطاب الشِّعري في قصيدته (التائية في رثاء الإمام الحسين عليه السلام) وحفظ عدد من الأبيات. – الشاعر الفرزدق (اسمه ونسبه وحياته), وتحليل الخطاب الشِّعري في قصيدته (مدح الإمام زين العابدين عليه السلام) وحفظ عدد من الأبيات.
Week 13	الأدب: تحليلي نص نثري من كتاب نهج البلاغة للإمام علي عليه السلام, خطبة (النهي عن اغتياب الناس) في ضوء الفكر التربوي.
Week 14	تحليل النص القرآني (التفسير والإعجاز البلاغي). – تحليل جزء من سورة يوسف (عليه السلام), وجزء من سورة العاديات عند عدد من المفسرين. – حفظ عدد من السور القصار وبيان معانيها.
Week 15	محاضرة و مناقشات عامة

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

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	.- شرح ابن عقيل على ألفية ابن مالك، تحقيق محيي الدين عبد الحميد	
Recommended Texts	- اللغة العربية للأقسام غير المختصة - جامع الدروس العربية موسوعة في ثلاث أجزاء	
Websites		

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

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

جدول الساعات المجدولة وغير المجدولة لمادة

Arabic Language

نوع النشاط	الساعات المجدولة SSWL	الساعات غير المجدولة USSWL	عدد الأسابيع	ساعة لكل أسبوع	العبء الكلي للنشاط
محاضرات	محاضرات في القاعات الدراسية		**15**	**2**	**30**
المختبر	دوام المختبر		0	0	0
مناقشات*	المناقشات		0	0	0
مشروع عملي*	مشروع عملي		0	0	0
		التهيئة للمشروع	0	0	0
تحضير الدروس اليومي		تحضير الدروس اليومي	**15**	**0.5**	**7.5**
العروض التقديمية*	القاء العرض التقديمي		0	0	0

		التهيئة للعرض التقديمي	0	0	0
الامتحانات اليومية	الامتحان		**0**	**0**	**0**
		التهيئة للامتحانات اليومية	**4**	**0.5**	**2**
امتحان نصف الفصل	الامتحان		**0**	**0**	**0**
		التهيئة للامتحان	**1**	**3**	**3**
امتحان نهاية الفصل	الامتحان		**1**	**3**	**3**
		التهيئة للامتحان	**1**	**4.5**	**4.5**
			العبء الكلي للمادة خلال الفصل:		**50**
			عدد الوحدات:		**2**
*لا توجد ساعات مجدولة لهذه النشاطات كون تم استيفاؤها ضمن الصفوف الدراسية.					