MODULE DESCRIPTION | 2024-2025 |

University of Samarra

Faculty of Engineering

First Cycle – bachelor's degree (B.Sc.) Architectural Engineering

Modules Description First Level

MODULE DESCRIPTION **(ARCHITECTURAL DESIGN I)**

Module Information					
Module Title	**Architectural Design I**			**Module Delivery**	
Module Type	**Core**			☒ **Theory** ☐ **Lecture** ☐ **Lab** ☐ **Tutorial** ☒ **Practical** ☐ **Seminar**	
Module Code	**AE1101**				
ECTS Credits	**8**				
SWL (hr/sem)	**200**				
Module Level	1		**Semester of Delivery**	1	
Administering Department	**AE**		**College**	Architectural Engineering Center	
Module Leader	**Suhail Najm Abdullah**		**e-mail**	**suhail.najim@uosamarra.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	11/11/2024		**Version Number**	1.0	

Relation with other Modules			
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents	
Module Objectives	1. To develop understanding of interconnections between form, volume and function. 2. To sensitize students towards the interconnectedness of various elements of a context which impacts the architectural design. 3. Preparing the student to enter the world of architecture intellectually, conceptually, and practically, as a basic work base, and defining the concept of architecture, by identifying the principles of design, composition and the third dimension, architectural space, human scale, urban environment and others. 4. Developing the student's language of expression on design vocabulary 5. Developing the student's artistic and formative sense, and the analytical-synthetic thinking style. 6. Developing the student's awareness and sensitivity to the natural and urban environment, and respecting it, starting from understanding and appreciating the traditional urban environment, studying the formative and directive relationships of its elements and components.

Module Learning Outcomes	Having successfully completed this course, the student will be able to understand: • Anthropometrics pertaining to various areas of space design. • Determine space requirements for various day to day activities. • Establish relations between form, space and function with the help of simple flow path, circulation diagrams etc.
Indicative Contents	**Anthropometrics** • Study of anthropometrics and their relationship with the dimensions of objects of daily use. • Determining space for activities such as living, dining, sleeping and conveniences. • Measured drawing of a small building such as, a small room/studio, etc. of a house, office etc. **Study of Circulation** Simple circulation flow diagrams for small building projects **Spatial Organization** Three-dimensional organization of a variety of forms to create built forms, importance of shades and shadows in the entire composition, layout of repetitive units within a site to create interesting and functional compositions. Design exercises • Evolution of plan in relation to physical, site considerations, selection of materials and construction, study of architectural design vis a vis the concepts of privacy, security, comfort and maintenance • Single room design, such as self-occupied room, tea stall, guard room, canopy, boundary wall etc. • Design of small residential components, such as a kitchen, bathroom, bedroom etc

Learning and Teaching Strategies	
Strategies	Case studies along with primary and secondary surveys. • Documentation of various data collected from case studies, research and literature studies. • Models and sketches. • Synergy of various layers of data and its application in a small-scale space design.

Student Workload (SWL)			
Structured SWL (h/sem)	120	**Structured SWL (h/w)**	8
Unstructured SWL (h/sem)	75	**Unstructured SWL (h/w)**	5
Project preparation	5	**Taken in one week**	5
Total SWL (h/sem)	**200**		

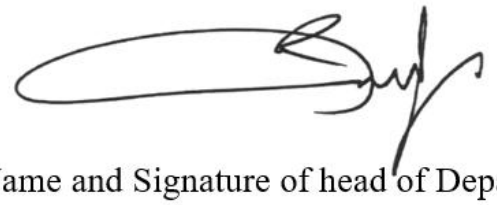
Module Evaluation					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Assignments**	10	30% (10)	Continuous	All
	Assignments	10	30% (10)	Continuous	All
	Projects	1	20% (40)	Continuous	All
	Quizzes	2	20% (20)	Continuous	All
Summative assessment	**Midterm Presentation**	0	0		
	Final Presentation	0	0		
Total assessment			100% (280 Marks)		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Introduction: what does it mean to be a student in architectural engineering department? What tools do you need? How much money will you spend? All these questions will be explored.
Week 2	Training the student through an extensive set of exercises on different line values, using a pencil.
Week 3	Developing his expressive ability to draw with and without tools, Free Hand, in order to reach various linear values.
Week 4	Introducing the basic principles of two-dimensional design: the concept of composition, its elements, basic principles, types of configurations.
Week 5	Drawings 2-dimensional existing work, then developing their works
Week 6	Color theory and its basic principles, color derivation - the use of poster colors Poster C.
Week 7	- Color in the configuration: Enter the color as a new variable in the configuration. - Mi-Term Exam
Week 8	A short project through which the concepts that have been exposed are applied.
Week 9	Entering the volume of a new variable in the configuration, space and mass, and their expressive values
Week 10	Introducing volume as a new variable in composition, space and mass and their expressive values
Week 11	By using museum board students will explore all these value through building physical models
Week 12	Learn about the concept of the human scale, its applications, and distinguish between the scale in the residential building, the industrial building, etc
Week 13	A realistic study of one of the interior spaces of the residence, the development of the space with a focus on studying the spatial, functional and expressive requirements of the space, the introduction of color and texture and the study of furniture and others
Week 14	A lecture on the method of drawing and standardizing the facades of historical buildings and applying them on site.
Week 15	A visit to the heritage houses of one of the traditional sites in Najaf. A standard drawing of a part of a traditional facade...
Week 16	**Preparatory week before the final Exam**

Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	Ching, F. D. K. (2012). Architecture: Form, Space and Order. 3rd Ed. Hoboken: John Wiley & Sons.	---
Recommended Texts	Watson, D. (Editor). (2005) Time-saver Standards for Architectural Design: Technical Data for Professional Practice, 8th Ed., McGraw-Hill.	---
Websites	https://engineering.mu.edu.iq/?epkb_post_type_1	

Grading Scheme				
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.



Name and Signature of head of Department

Asst.Prof.Dr Raed Abdullah Hasan

MODULE DESCRIPTION
(ARCHITECTURAL DRAWING I)

Module Information					
Module Title	**Architectural Drawing I**			**Module Delivery**	
Module Type	**Core**			☒ **Theory** ☐ **Lecture** ☐ **Lab** ☐ **Tutorial** ☒ **Practical** ☐ **Seminar**	
Module Code	**AE1102**				
ECTS Credits	**5**				
SWL (hr/sem)	**125**				
Module Level	1		**Semester of Delivery**	1	
Administering Department	**AE**		**College**	**Architectural Engineering Center**	
Module Leader	Raed Abdullah Hasan		**e-mail**	Raed_hasan@uosamarra.edu.iq	
Module Leader's Acad. Title			**Module Leader's Qualification**		
Module Tutor	Name (if available)		**e-mail**	E-mail	
Peer Reviewer Name	Name		**e-mail**	E-mail	
Scientific Committee Approval Date	11/11/2024		**Version Number**	1.0	

Relation with other Modules			
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents	
Module Objectives	Module Overview: The Engineering Architectural Drawing module is designed to provide first-year engineering students with a comprehensive understanding of architectural drawing techniques and principles. This module emphasizes manual drafting skills, focusing on traditional methods and tools rather than computer-aided design (CAD) software. Students will learn how to create accurate and detailed architectural drawings by hand, gaining a strong foundation in technical drawing practices commonly used in the field of engineering. Module Objectives: 1. To introduce students to the fundamental principles and concepts of architectural drawing and its significance in the field of engineering design. 2. To develop students' proficiency in using manual drafting tools and equipment for architectural drawing. 3. To enable students to interpret and create accurate and detailed architectural drawings, including plans, elevations, sections, and details. 4. To teach students appropriate scaling and dimensioning techniques to accurately represent objects and structures in architectural drawings. 5. To familiarize students with standard architectural drawing conventions, symbols, and notation commonly used in the industry. 6. To enhance students' communication and presentation skills through the creation of clear and concise architectural drawings. 7. To instill in students an understanding of industry-standard drawing standards and practices to ensure compliance with engineering regulations and requirements. 8. To foster effective collaboration and teamwork skills through group projects involving architectural drawing exercises. 9. To provide students with opportunities to apply theoretical knowledge and practical skills to solve real-world architectural drawing challenges. 10. To prepare students for further study and practical application of architectural drawing techniques in subsequent engineering modules and professional practice.
Module Learning Outcomes	Module Learning Outcomes: Upon successful completion of this module, students will be able to: 1. Understand the fundamental principles of architectural drawing and its importance in engineering design. 2. Demonstrate proficiency in using drafting tools and equipment for manual architectural drawing. 3. Interpret and create architectural drawings, including plans, elevations, sections, and details. 4. Apply appropriate scaling and dimensioning techniques to accurately

	represent objects and structures in drawings. 5. Develop an understanding of standard architectural drawing conventions, symbols, and notation. 6. Demonstrate effective communication and presentation skills through the creation of clear and concise architectural drawings. 7. Apply industry-standard drawing standards and practices to ensure compliance with engineering regulations and requirements. 8. Collaborate effectively with peers in group projects involving architectural drawing exercises.
Indicative Contents	Indicative Contents of the Module: Semester 1: 1. Introduction to Architectural Drawing a. Importance and scope of architectural drawing in engineering b. Historical overview of architectural drawing techniques c. Introduction to basic drawing tools and equipment 2. Freehand Sketching and Visualization a. Principles of freehand sketching b. Techniques for representing objects and spaces in two dimensions. c. Visualization exercises to develop spatial thinking and observation skills. Geometric Constructions and Orthographic Projection d. Construction of basic geometric shapes and forms e. Principles of orthographic projection and Multiview drawings f. Creation of plans, elevations, and sections of simple objects and structures 3. Introduction to Architectural Drawing Types a. Understanding different types of architectural drawings (plans, elevations, sections, details) b. Techniques for creating accurate and scaled architectural drawings. c. Interpretation and analysis of architectural drawings in the context of engineering design Semester 2: 1. Technical Drawing Standards and Conventions a. Introduction to industry-standard drawing standards and conventions b. Drawing layout, sheet organization, and annotation c. Application of scale, line weights, and line types in architectural drawing 2. Advanced Orthographic Projection and Auxiliary Views d. Advanced principles of orthographic projection e. Creation of sectional views and auxiliary views to represent complex objects. f. Introduction to dimensioning and tolerance concepts in architectural drawing 3. Isometric and Perspective Drawings g. Principles of isometric and perspective drawing

	h. Techniques for creating three-dimensional representations of objects and spaces. *i.* Application of shading and rendering techniques in architectural drawings *4.* Collaborative Drawing Projects and Portfolio Development *j.* Group projects involving complex architectural drawing exercises. *k.* Collaboration and teamwork skills in architectural drawing Creation of a portfolio showcasing the student's best architectural drawings

Learning and Teaching Strategies	
Strategies	Learning and Teaching Strategies: 1. Lectures: The module will include lectures delivered by the instructor to introduce and explain key concepts, techniques, and principles of architectural drawing. Lectures will provide theoretical foundations and guidance for the practical application of drawing skills. 2. Demonstrations: The instructor will demonstrate various manual drafting techniques and methods, showcasing proper use of drafting tools and equipment. Students will observe and learn through visual demonstrations, allowing them to understand and replicate the techniques in their own work. 3. Practical Sessions: Students will participate in practical sessions where they will actively engage in architectural drawing exercises. These sessions will provide hands-on experience with manual drafting tools and allow students to practice and develop their drawing skills under the guidance of the instructor. 4. Group Work: Collaborative group projects will be assigned to promote teamwork and communication skills. Students will work together on architectural drawing assignments, allowing them to share ideas, perspectives, and problem-solving approaches. 5. Critique and Feedback: Regular critique sessions will be conducted, where students will present their drawings to the instructor and peers for evaluation and feedback. Constructive feedback will help students identify areas for improvement and refine their drawing techniques. 6. Tutorials and Workshops: Additional tutorial sessions and workshops may be provided to address specific challenges or topics that require further clarification. These sessions will allow students to seek assistance, ask questions, and receive one-on-one guidance from the instructor. 7. Independent Study: Students will be encouraged to engage in independent study and practice outside of class. This may involve reviewing lecture notes, conducting research on architectural drawing techniques, and practicing drawing exercises to reinforce learning.

	8. Visual Resources and References: Visual resources, such as examples of architectural drawings, textbooks, and online references, will be provided to supplement learning. These resources will aid students in understanding drawing conventions, standards, and best practices. 9. Portfolio Development: Students will be encouraged to maintain a portfolio of their architectural drawings throughout the module. This portfolio will showcase their progress, development, and the range of skills they have acquired. 10. Field Visits and Guest Speakers: Opportunities may be provided for students to visit architectural sites or attend guest lectures by industry professionals. These experiences will expose students to real-world applications of architectural drawing and provide insights into the profession. 11. Assessment and Feedback: Assessment methods such as practical drawing exercises, written assignments, group projects, and examinations will be used to evaluate students' understanding and application of architectural drawing principles. Constructive feedback will be provided to support students' learning and growth.

Student Workload (SWL)			
Structured SWL (h/sem)	75	**Structured SWL (h/w)**	5
Unstructured SWL (h/sem)	45	**Unstructured SWL (h/w)**	3
Exam prepartion	2		1
Total SWL (h/sem)	125		

Module Evaluation

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Quizzes**	2	10% (10)	5 and 10	LO #1, #2, #4 and #6
	Assignments	2	20% (20)	Continuous	LO #2- #7
	Projects / Lab.	1	10 % (10)	Continuous	LO #8
	Report				
Summative assessment	**Midterm Exam**	2hr	10 % (10)	7	LO #1 - #7
	Final Exam	3hr	50% (50)	16	LO #1 - #7
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
Semester 1	**Material Covered**
Week 1-2	- Introduction to Architectural Drawing - Importance of architectural drawing in engineering design - Overview of manual drafting tools and equipment
Week 3-6	- Drafting Techniques and Principles - Line types, weights, and styles - Sketching and freehand drawing - Geometric constructions and projections - Orthographic projection and Multiview drawings
Weeks 7-0	- Architectural Drawing Types - Plans, elevations, sections, and details - Introduction to isometric and perspective drawings - Mid-Term Exam
Weeks 11-15	- Drawing Standards and Communication - Scaling and dimensioning techniques - Architectural drawing conventions, symbols, and notation
	- Communication and presentation skills in architectural drawing
Week 16	**Preparatory week before the final Exam**

Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	1. "Architectural Graphics" by Francis D.K. Ching and James F. Eckler. This comprehensive textbook covers the principles and techniques of architectural drawing, including line types, scales, orthographic projection, and architectural lettering. It also explores the use of computer-aided design (CAD) software in architectural drawing. 2. "Architectural Drawing and Light Construction" by Edward J. Muller and Philip A. Grau III. This book provides a practical approach to architectural drawing, focusing on both manual and CAD techniques. It covers topics such as architectural drafting standards, construction drawings, dimensioning, and detailing. 3. "Engineering Drawing and Design" by David A. 4. Madsen, David P. Madsen, and Emeritus John R. 5. Wallace. This textbook offers a comprehensive introduction to engineering drawing principles and practices. It covers topics such as geometric constructions, orthographic projection, isometric drawing, dimensioning, and tolerancing.	---

	6. "Architectural Drafting and Design" by Alan Jefferis and David A. Madsen. This textbook provides a thorough introduction to architectural drafting, including architectural symbols, drafting conventions, working drawings, and building information modeling (BIM). It also covers topics like sustainability, energy-efficient design, and construction materials. **7.** "Architectural Drawing Course: Tools and Techniques for 2D and 3D Representation" by Mo Zell. This book offers a practical guide to architectural drawing techniques, including freehand sketching, orthographic projection, isometric drawing, and perspective drawing. It also covers digital	
Recommended Texts	"Architectural Graphics" by Francis D.K. Ching and James F. Eckler	---
Websites		

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

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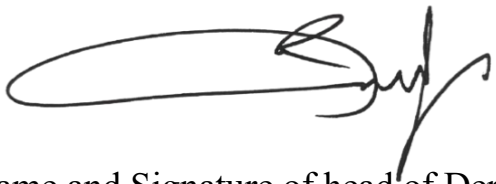

Name and Signature of head of Department
Asst.Prof.Dr Raed Abdullah Hasan

MODULE DESCRIPTION (FREE HAND 1)

Module Information					
Module Title	**Free hand 1**			**Module Delivery**	
Module Type	**Basic**			☒ **Theory** ☐ **Lecture** ☐ **Lab** ☐ **Tutorial** ☒ **Practical** ☐ **Seminar**	
Module Code	**AE1103**				
ECTS Credits	**5**				
SWL (hr/sem)	**125**				
Module Level	1		**Semester of Delivery**	1	
Administering Department	**AE**		**College**	**Architectural Engineering Center**	
Module Leader	Zakaria Hashem		**e-mail**	**Zakria.ha.ah@uosamarra.edu.iq**	
Module Leader's Acad. Title	---		**Module Leader's Qualification**	---	
Module Tutor	Name (if available)		**e-mail**	E-mail	
Peer Reviewer Name	Name		**e-mail**	E-mail	
Scientific Committee Approval Date	00/06/2023		**Version Number**	1.0	

Relation with other Modules			
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents	
Module Objectives	Module Overview: The Free hand module is designed to provide first-year Architecture students with a comprehensive understanding of Free hand drawing techniques and principles. This module emphasizes skills, focusing on traditional free hand methods and drawing tools. Students will learn how to create accurate and detailed drawings by hand, gaining a strong foundation in free hand practices commonly used in the field of Architecture. Module Objectives: 1. To learn the most important techniques used in the basics of freehand drawing (such as pencils, pens). 2. To introduce students to the fundamental principles and concepts of Free hand and its significance in the field of Architectural design.

	3. To exercise Students to realize the exact details in the physical reality and being aware of the rates and movement, shadow, light & color. 4. To enable students to interpret and create accurate and detailed free hand drawings, including, nature, furniture, and Architectural details. 5. To teach students appropriate scaling and dimensioning techniques to accurately represent objects and structures in free hand drawings. 6. To familiarize students with free hand technique. 7. To enhance students' communication and presentation skills through the creation of clear and concise free hand drawings. 8. To instill in students an understanding of industry-standard drawing standards and practices to ensure compliance with engineering regulations and requirements. 9. To foster effective collaboration and teamwork skills through group projects involving free hand drawing exercises. 10. To provide students with opportunities to apply theoretical knowledge and practical skills to solve real-world free hand drawing challenges. 11. To prepare students for further free hand with color study and practical techniques 12. Enable the student to understand the vocabulary that will be used in other lessons such as design and architectural drawing.
Module Learning Outcomes	Module Learning Outcomes: Upon successful completion of this module, students will be able to: 1. Understand the fundamental principles of free hand drawing and its importance in Architecture design. 2. Demonstrate proficiency in using tools and equipment for manual Free hand drawing. 3. Demonstrate effective communication and presentation skills through the creation of clear and concise free hand drawings. 4. Collaborate effectively with peers in group projects involving Free hand drawing exercises. 5. Freehand Drawing is organized around the concepts for drawing from perception. 6. The objectives are to examine the various components of drawing: line, value, texture, composition, and spatial dynamics 7. It is based on working from still life, architecture, landscape, and photo collages.

Indicative Contents	Indicative Contents of the Module: Semester 1: 1. Introduction to Free hand a. Importance and scope of Free hand in Architecture b. Historical overview of Free hand techniques c. Introduction to Free hand tools and equipment 2. Freehand Sketching a. Principles of freehand sketching b. Techniques for representing objects and spaces in three dimensions. c. Visualization exercises to develop spatial thinking and observation skills. 3. Introduction to Free Hand Types a. The first is “rough sketching.” b. The second is “refined sketching” Semester 2: 1. Free Hand shadow ways 2. Perspective Drawings 3. Principles of perspective drawing 4. Perspective typs: a. One vanishing point b. Two vanishing point c. Three vanishing point

Learning and Teaching Strategies	
Strategies	Learning and Teaching Strategies: 1. Lectures: The module will include lectures delivered by the instructor to introduce and explain key concepts, techniques, and principles of Free hand. Lectures will provide theoretical foundations and guidance for the practical application of drawing skills. 2. Demonstrations: The instructor will demonstrate various manual drafting techniques and methods, showcasing proper use of drafting tools and equipment. Students will observe and learn through visual demonstrations, allowing them to understand and replicate the techniques in their own work. 3. Practical Sessions: Students will participate in practical sessions where they will actively engage in Free hand exercises. These sessions will provide hands-on experience with manual drafting tools and allow students to practice and develop their drawing skills under the guidance of the instructor.

	4. Group Work: Collaborative group projects will be assigned to promote teamwork and communication skills. Students will work together on free hand assignments, allowing them to share ideas. 5. Critique and Feedback: Regular critique sessions will be conducted, where students will present their drawings to the instructor and peers for evaluation and feedback. Constructive feedback will help students identify areas for improvement and refine their drawing techniques. 6. Tutorials and Workshops: Additional tutorial sessions and workshops may be provided to address specific challenges or topics that require further clarification. These sessions will allow students to seek assistance, ask questions, and receive one-on-one guidance from the instructor. 7. Independent Study: Students will be encouraged to engage in independent study and practice outside of class. This may involve reviewing lecture notes, conducting research on free hand drawing, and practicing drawing exercises to reinforce learning. 8. Visual Resources and References: Visual resources, such as examples of drawing, textbooks, and online references, will be provided to supplement learning. These resources will aid students in understanding drawing conventions, standards, and best practices. 9. Portfolio Development: Students will be encouraged to maintain a portfolio of their free hand drawings throughout the module. This portfolio will showcase their progress, development, and the range of skills they have acquired. 10. Field Visits and Guest Speakers: Opportunities may be provided for students to visit sites or attend guest lectures by professional artist. These experiences will expose students to real-world applications of free hand. 11. Assessment and Feedback: Assessment methods such as practical Free hand exercises, group projects, and examinations will be used to evaluate students' understanding and application of free hand principles. Constructive feedback will be provided to support students' learning and growth.

Student Workload (SWL)			
Structured SWL (h/sem)	78	**Structured SWL (h/w)**	5.2
Unstructured SWL (h/sem)	47	**Unstructured SWL (h/w)**	3.1
Total SWL (h/sem)	150		

Module Evaluation					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	2	20% (20)	5 and 10	LO #1, #2, #4 and #6
	Assignments	2	15% (15)	Continuous	LO #2- #7
	Projects / Lab.	1	5% (5)	Continuous	LO #8
	Report				
Summative assessment	**Midterm Exam**	2hr	10% (10)	7	LO #1 - #7
	Final Exam	3hr	50% (50)	16	LO #1 - #7
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
Semester 1	**Material Covered**
Week 1-2	-Introduction to Free hand. -Importance and scope of Free hand in Architecture -Historical overview of Free hand techniques -Free hand tools & equipment
Week 3-6	- Principles of freehand sketching -Techniques for representing objects and spaces in three dimensions. -Visualization exercises to develop spatial thinking and observation skills.
Weeks 7-10	- Introduction to Free Hand Types -The first is “rough sketching.” - Mid-term Exam
Weeks 11-15	- The second is “refined sketching”
Week 16	**Preparatory week before the final Exam**
Semester 2	
Weeks 1-4	- Free Hand shadow ways Principles of perspective drawing
Weeks 5-8	- Perspective Drawings - Perspective types: - Mid-Term Exam

Weeks 9-12	-One vanishing point -Two vanishing point
Weeks 13-15	- Three vanishing point - Group projects involving free hand drawing exercises. - Teamwork and collaboration skills in Free hand
Week 16	**Preparatory week before the final Exam**

Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	1. "Drawing for Artist" by Sarah Simblet - This comprehensive textbook covers the principles and techniques of Free hand drawing, by using our imaginations .and Draw A new building ideas materials 2. "Architectural Drawing and Light Construction" by Edward J. Muller and Philip A. Grau III - This book provides a practical approach to architectural drawing, focusing on both manual and CAD techniques. It covers topics such as architectural drafting standards, construction drawings, dimensioning, and detailing.	---
Recommended Texts	Freehand: Sketching Tips and Tricks Drawn from Art, 2013 by Helen Birch	
Websites	https://freehandarchitecture.com/	

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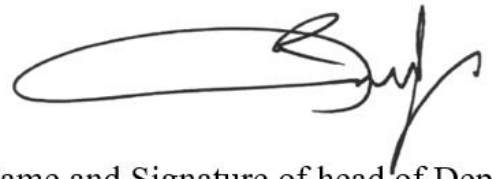


Name and Signature of head of Department

Asst.Prof.Dr Raed Abdullah Hasan

MODULE DESCRIPTION
PRINCIPLES OF ART AND ARCHITECTURE

Module Information معلومات المادة الدراسة					
Module Title	**Principles of Art and Architecture**			**Module Delivery**	
Module Type	**Core**			☒ **Theory** ☐ **Lecture** ☐ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**AE1104**				
ECTS Credits	**4**				
SWL (hr/sem)	**100**				
Module Level	1		**Semester of Delivery**	2	
Administering Department	**AE**		**College**	**Architectural Engineering Center**	
Module Leader	Laheeb Bahgat Saab		**e-mail**	**Laheebbahjat199@gmail.com**	
Module Leader's Acad. Title	---		**Module Leader's Qualification**	---	
Module Tutor	Name (if available)		**e-mail**	E-mail	
Peer Reviewer Name			**e-mail**		
Scientific Committee Approval Date	00/06/2023		**Version Number**	1.0	

Relation with other Modules			
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents	
Module Objectives	This course will introduce students to the basic concepts of art and architectural practice, through an analysis of the production of art and architecture drawn form a range of historical periods and contexts.

Module Learning Outcomes	1. Identify key art and architectural styles and movements 2. Understand the contexts in which art and architectural practices have been undertaken 3. Identify and understand common themes and links between art and architecture 4. Understand the meaning of art and architecture through acquiring the analytics tools allowing them to read and analyses the production of art and architecture
Indicative Contents	

Learning and Teaching Strategies	
Strategies	- Lectures and class discussions; Set readings will form a key component of the teaching practice. - Teaching Method Delivery Notes

Student Workload (SWL)			
Structured SWL (h/sem)	63	**Structured SWL (h/w)**	4.2
Unstructured SWL (h/sem)	37	**Unstructured SWL (h/w)**	2.5
Total SWL (h/sem)	**100**		

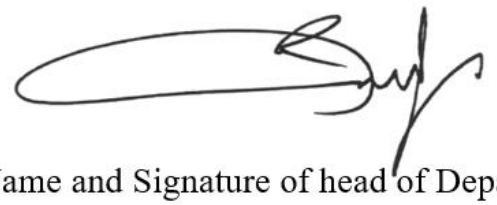
Module Evaluation					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	2	10% (10)	5 and 10	
	Assignments	2	10% (10)	2 and 12	
	Projects	1	10% (10)	Continuous	
	Report	1	10% (10)	13	
Summative assessment	**Midterm Exam**	3hr	10% (10)	8	
	Final Exam	3hr	50% (50)	16	
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Course introduction, Introduction to Art Architecture and Urban Design
Week 2	Understanding Art and Architecture - Line, Shape, Light and Color
Week 3	Understanding Art and Architecture - Texture, Pattern, Space, Time and Motion
Week 4	Assignment 1 - Group Presentation
Week 5	Understanding Art and Architecture - Principles of Design, Drawing and Painting
Week 6	Understanding Art and Architecture - Graphic Design, Photography
Week 7	Understanding Art and Architecture - Digital Arts, Sculpture and 3D Design
Week 8	Midterm Exam
Week 9	Art and Architecture of the Ancient World
Week 10	Art and Architecture of the 19-20th century
Week 11	Art and Architecture of the Modern Era
Week 12	Non-working day –
Week 13	Assignment 2 - Group Presentation
Week 14	Art and Architecture of the Twentieth Century the Early Years and Postwar to Postmodern
Week 15	Art and Architecture Now a Global Perspective

Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	Art and Architecture by Sheren Ihsan	---
Recommended Texts	Understanding Architecture. Its Elements, History and Meaning. Leland M. Roth and Amanda C. Roth Clark. Third Edition. Routledge. 2014; The Story of Art by E.H.Gombrich. Phaidon Press. 16th Edition. 2007; Understanding Art. Lois Fichner Rathus. Cengage Learning. Eleventh Edition. 2017;	---
Websites		

Grading Scheme				
Group	**Grade**	التقدير	**Marks %**	**Definition**
Success Group (50 - 100)	**A -** Excellent	امتاز	90 - 100	Outstanding Performance
	B - Very Good	جد جدا	80 - 89	Above average with some errors
	C - Good	جد	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.



Name and Signature of head of Department

Asst.Prof.Dr Raed Abdullah Hasan

MODULE DESCRIPTION **MATHEMATICS**

Module Information					
Module Title	**Mathematics**			**Module Delivery**	
Module Type	**Support**			☒ **Theory** ☐ **Lecture** ☐ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**AE1105**				
ECTS Credits	**4**				
SWL (hr/sem)	**100**				
Module Level	1		**Semester of Delivery**	1	
Administering Department	**AE**		**College**	**Architectural Engineering Center**	
Module Leader	Maha Rahman Rahi		**e-mail**		
Module Leader's Acad. Title	---		**Module Leader's Qualification**	---	
Module Tutor	---		**e-mail**	---	
Peer Reviewer Name			**e-mail**	E-mail	
Scientific Committee Approval Date	00/06/2023		**Version Number**	1.0	

Relation with other Modules			
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents	
Module Objectives	1.Develop a comprehensive understanding of fundamental concepts in calculus, including derivatives, integration, and their applications. 2.Acquire proficiency in differentiating functions using various techniques, such as implicit differentiation, the chain rule, and differentiating parametric equations. 3.Gain competence in integrating functions, both indefinite and definite integration, and applying integration techniques to solve initial value problems and calculate areas under curves.
Module Learning Outcomes	Important: Write at least 6 Learning Outcomes, better to be equal to the number of study weeks. Learning Outcomes for the Calculus Module: 1. Demonstrate a solid understanding of derivatives, including their definition, laws, and the ability to calculate derivatives of various functions. 2. Apply the concept of second and higher order derivatives to analyze the behavior of functions and identify points of inflection. 3. Utilize implicit differentiation techniques to find derivatives of functions that are expressed implicitly. 4. Apply the chain rule effectively to differentiate composite functions, enabling the analysis of more complex relationships. 5. Understand and utilize parametric equations to differentiate and integrate functions with respect to a parameter. 6. Develop proficiency in integration, including both definite and indefinite integration, and apply integration techniques to solve initial value problems. 7. Apply integration to calculate areas under curves, providing insights into real-world applications and understanding the concept of accumulation.

Indicative Contents	Indicative content includes the following. Part 1: Basic Skills In this module, we will explore Sets and Intervals, Analytical Geometry, Functions, Limits, and Continuity. Let's begin with an introduction to Sets and Intervals, understanding their definitions and examples. We will then delve into Analytical Geometry, where we will learn about distance between points, point, line, and plane, as well as slope and equations of lines. Finally, we will explore the fundamentals of Functions, including domain, range, sums, differences, products, quotients, and composition. Get ready for an exciting exploration of mathematical principles! Part 2: Applications Skills In this module, we will dive into the world of derivatives, integration, and their applications. We will begin by understanding the definition of derivatives and
	exploring their laws through various examples. Moving forward, we will explore second and higher order derivatives, implicit differentiation, and the derivatives of trigonometric functions. We will then uncover the power of the chain rule and delve into the concept of parametric equations. Finally, we will explore integration, both definite and indefinite, along with solving initial value problems using indefinite integrals. Our journey will culminate in exploring the application of calculus through finding the area under curves. Get ready for an exhilarating exploration of calculus!

Learning and Teaching Strategies	
Strategies	The main strategy that is adopted in this unit is to encourage students to participate in exercises while improving constructive critical thinking skills and expanding them at the same time while correcting misconceptions. This is done through explanation and the practical side through simple experiments that will develop the concept of space engineering, which includes activities What students do that interests them.

Student Workload (SWL)			
Structured SWL (h/sem)	63	**Structured SWL (h/w)**	4.2
Unstructured SWL (h/sem)	37	**Unstructured SWL (h/w)**	2.5
Total SWL (h/sem)	**100**		

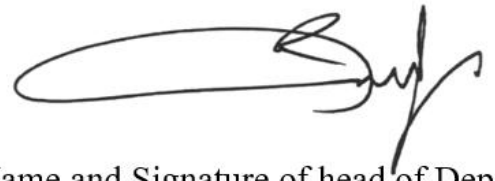
Module Evaluation					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	2	10% (10)	5 and 12	LO #1, #2 and #4
	Assignments	3	10% (10)	4,9 and 12	LO #3, #4
	Projects / Lab.	1	10% (10)	13	All
	Report	2	10% (10)	8&14	LO #5, #7and #6
	Midterm Exam	2hr	10% (10)	8	All
Summative assessment	**Final Exam**	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Sets and Intervals: Introduction and examples, open, closed and half open
Week 2	Analytical Geometry: Distance between Points and point, line, plan, Slope and Equation of Line
Week 3	Functions: Domain, range, Sums, Difference and examples
Week 4	Functions: Product and Quotients of Functions, Composition
Week 5	Limits and Continuity: definition, rules,
Week 6	Right-hand left-hand limits examples
Week 7	Continuous Functions: definition, examples
Week 8	Mid exam
Week 9	Derivatives: definition, laws and examples
Week 10	Derivatives: Second and Higher Order Derivative
Week 11	Derivatives: Implicit Differentiation, Trigonometric Functions
Week 12	Derivatives: The Chain Rule, Parametric Equations
Week 13	Integration: definite and indefinite, rules,
Week 14	Integration: Solving Initial Value Problems with Indefinite Integrals
Week 15	Applications: Area under Curve
Week 16	**Preparatory week before the final Exam**

Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	Thomas' calculus early transcendental, 15th edition, 2023	---
Recommended Texts	Applied Engineering Mathematics, Brian Vick, 2020	---
Websites	https://www.numerade.com/books/thomas-calculus	

Grading Scheme				
Group	**Grade**	التقدير	**Marks %**	**Definition**
Success Group (50 - 100)	**A -** Excellent	امتاز	90 - 100	Outstanding Performance
	B - Very Good	جد جدا	80 - 89	Above average with some errors
	C - Good	جد	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.



Name and Signature of head of Department

Asst.Prof.Dr Raed Abdullah Hasan

MODULE DESCRIPTION FORM

Module Information					
Module Title	**Arabic**			**Module Delivery**	
Module Type	**Basic**			☒**theory** ☒**a lecture** ☒**laboratory** ☐**Tutorial** ☐**practical** ☐**seminar**	
Module Code	**UOE-1102**				
ECTS Credits	**2**				
SWL (hr/sem)	**33**				
Module Level	1		**Semester of Delivery**	1	
Administering Department	AE		**college**	Architectural Engineering Center	
Module Leader	Mohanad Abdul Jabbar Hassan		**Email**	mohanad.abduljabbar@uosamarra.edu.iq	
Module Leader's Acad. Title	Lecture		**Module Leader's Qualification**	Ph.D in Arabic Language	
Module Tutor	None		**Email**	None	
Peer Reviewer Name	None		**Email**	None	
Scientific Committee Approval Date	06/17/2023		**Version Number**	1.0	

Relation with other Modules			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents	
Module Aims	Course objectives .Enabling students to understand the eloquence of the Holy Quran and to appreciate the aesthetics of its language.. Training students to use punctuation marks between sentences correctly. To broaden the students' literary horizons of ideas, meanings and moral values.. Teaching students how to write correctly according to the basics of spelling, which enables them to write words correctly..
Module Learning Outcomes	- Cognitive objectives 1- Knowing the basics of spelling in the Arabic language. 2- Getting to know world literature and their influence on Arabic literature. 3- Studying some Quranic verses to explore the linguistic and rhetorical aspects therein. B - Course specific skill objectives. 1- Writing correctly. 2- The ability to extract common errors in daily use. 3- The ability to identify the areas of Quranic eloquence and to know its effect on understanding the meanings.
Indicative Contents	Guiding Contents Arabic language among the languages of the world, the emergence of spoken and written language, the grammatical system, Quranic rhetoric, the morphological system, the written system, numbers in the Arabic language, Arabic and Arabization, world literature and Orientalism.

Learning and Teaching Strategies	
Strategies	The main strategy that will be adopted in presenting this unit: It is to encourage students to engage in exercises while simultaneously honing and expanding their critical thinking skills. This will be achieved through interactive classes and tutorials and by considering the type of topics some of which include sampling activities that interest students."

Student Workload (SWL)			
SWL Organization (hr/sem)	33	SWL organization (h/w) Regular weekly student load	2
Unstructured SWL (hr/sem)	17	Unstructured SWL (h/w) Irregular student load per week	1.13
Total SWL (hr/sem)	50		

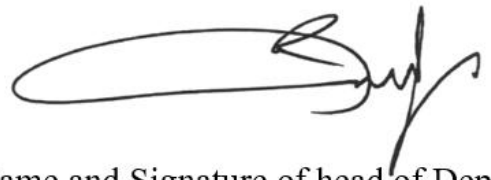
Module Evaluation					
		Time/number	**Weight (marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Tests**	2	10% (10)	5 and 10	LO #1, #2, #10, and #11
	Verbal assignments	1	10% (10)	16	everyone
	laboratory.		10% (10)		everyone
	a report	15	10% (10)	continuous	everyone
Summative assessment	**Midterm Exam**	2 hours	10% (10)	continuous	#1 - #7 Goal
	Final Exam	3 hours	50% (50)	16	All
Overall Rating			100% (100 marks)		

Delivery Plan (Weekly Syllabus)	
	Covered Materials
Week 1	Arabic language, definition, origin, function
Week 2	Arabic language and the beginning of blogging
Week 3	Quranic eloquence and Surat Al-Fatihah
Week 4	Basic introduction to grammar
Week 5	Number in Arabic
Week 6	Writing system, ta Marbut and ta open
Week 7	Diminutive morphological system
Week 8	Midterm Exam
Week 9	For the written system A Hamzat al-Wasl and Hamzat al-Qat`
Week 10	Quranic eloquence and Surat Al-Kahf
Week 11	Synonyms in Arabic
Week 12	Poetic purposes in Arabic literature
Week 13	Writing system punctuation marks
Week 14	Mention and deletion in language
Week 15	Final exam

Learning and Teaching Resources		
	Text	**Available in the library?**
Required texts	The book is by Sibawayh, Secrets of Rhetoric by Al-Jurjani, Spelling and Punctuation in Arabic Writing by Abdul-Aleem Ibrahim.	Yes
Recommended Texts	The book is by Sibawayh, Secrets of Rhetoric by Al-Jurjani, Spelling and Punctuation in Arabic Writing by Abdul-Aleem Ibrahim.	Yes
Websites		

Grading Scheme				
Group	**Grade**	التقدير	**Marks %**	**Definition**
Success Group (50 - 100)	**A -** Excellent	امتاز	90 - 100	Outstanding Performance
	B - Very Good	جد جدا	80 - 89	Above average with some errors
	C - Good	جد	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.



Name and Signature of head of Department

Asst.Prof.Dr Raed Abdullah Hasan

MODULE DESCRIPTION FORM

Module Information					
Module Title	**Democracy and Human Rights**			**Module Delivery**	
Module Type	**Basic**			☒**theory** ☐**a lecture** ☒**Tutorial** ☐**practical** ☐**seminar**	
Module Code	**UOE-12012**				
ECTS Credits	**2**				
SWL (hr/sem)	**33**				
Module Level	1		**Semester of Delivery**	2	
Administering Department	AE		**college**	Architectural Engineering Center	
Module Leader	Qutaiba Mukhlef Abbas		**Email**	Qutiba.m.abbas@uosamarra.edu.iq	
Module Leader's Acad. Title	Teacher		**Module Leader's Qualification**	Master's Political science	
Module Tutor	None		**Email**	None	
Peer Reviewer Name	None		**Email**	None	
Scientific Committee Approval Date	06/01/2023		**Version Number**	1.0	

Relation with other Modules			
Prerequisite module	None	Semester	
Co-requisites module	UOE-12012	Semester	1

Module Aims, Learning Outcomes and Indicative Contents	
Module Aims	What is the purpose of human rights? Human rights seek to achieve fundamental interests while maintaining an understanding of the dignity and equality of people. They help express desires and respond to those who must fulfill them. Those desires. They are a universal language for humans, but they can be contributed to through the innovative use of tools such as visual indicators. Quantity and quality by increasing their understanding and implementation
Module Learning Outcomes	1-Students benefit from knowing the types of rights and their scope of application.. 2-Explaining the historical stages of human rights and their development. 3-Knowing the concept of freedoms and democracy correctly. Providing the student with the moral values that must be adhered to and clarifying the most important rights and duties incumbent upon the individual.
Indicative Contents	1-Students benefit from knowing the types of rights and their scope of application.. 2-Explaining the historical stages of human rights and their development. 3-Knowing the concept of freedoms and democracy correctly. Providing the student with the moral values that must be adhered to and clarifying the most important rights and duties incumbent upon the individual.

Learning and Teaching Strategies	
Strategies	The learning and teaching strategy is designed to: Carefully cover the essential material and analytical techniques required in lectures, and demonstrate the concepts using appropriate (and where possible practical) examples. Give students sufficient time to practice the techniques using a large number of carefully selected learning problems.

Student Workload (SWL)			
Structured SWL (hr/sem) Lectures in Chapter 150 Tests in Chapter 3	33	Structured SWL (h/w) Regular weekly student load	2.2
Unstructured SWL (hr/sem)	17	Unstructured SWL (h/w) Irregular student load per week	1.13
Total SWL (hr/sem)	50		

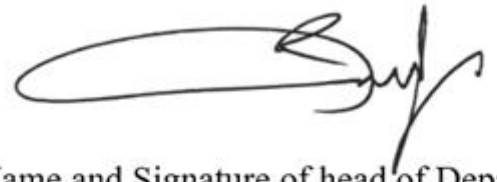
Module Evaluation					
		Time /Number	**Weight (marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	2	10% (10)	5, 10, 12, 14	LO #1, 2, 3, 4
	Assignments	5	15% (15)	4,8,11,15	LO #1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 and 14
	Discussions	6	15% (15)	continuous	
Summative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

Delivery Plan (Weekly Syllabus)	
	Covered Materials
Week 1	Human rights in ancient times 1- Human rights in Greek civilization
Week 2	Human rights in ancient Egyptian civilization
Week 3	- Human rights in Mesopotamian civilization,
Week 4	Human rights in divine laws and religions Human Rights in Christianity and Judaism
Week 5	Human rights in Islamic law.
Week 6	International sources of human rights International sources and the Universal Declaration of Human Rights.
Week 7	Midterm Exam
Week 8	The two international covenants on human rights.
Week 9	Human rights guarantees At the international and local levels Constitutional guarantees.
Week 10	Legal guarantees
Week 11	Human rights guarantees in Islam.
Week 12	Charter of the United Nations.
Week 13	United Nations General Assembly.
Week 14	Legal guarantees International
Week 15	Final exam

Learning and Teaching Resources		
	Text	**Available in the library?**
Required Texts	Human rights, children and democracy	Yes
Websites		

Grading Scheme				
Group	**Grade**	التقدير	**Marks %**	**Definition**
Success Group (50 - 100)	**A -** Excellent	امتاز	90 - 100	Outstanding Performance
	B - Very Good	جد جدا	80 - 89	Above average with some errors
	C - Good	جد	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.



Name and Signature of head of Department

Asst.Prof.Dr Raed Abdullah Hasan

MODULE DESCRIPTION (ARCHITECTURAL DESIGN II)

Module Information					
Module Title	**Architectural Design II**			**Module Delivery**	
Module Type	**Core**			☐ **Theory** ☒ **Lecture** ☒ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**AE1201**				
ECTS Credits	**8**				
SWL (hr/sem)	**200**				
Module Level	2		**Semester of Delivery**	4	
Administering Department	**AE**		**College**	**Architectural Engineering Center**	
Module Leader	Maysun Muhi Hilal		**e-mail**	**maysoon.hilal@uosamarra.edu.iq**	
Module Leader's Acad. Title	---		**Module Leader's Qualification**	---	
Module Tutor	---		**e-mail**	---	
Peer Reviewer Name	---		**e-mail**	---	
Scientific Committee Approval Date	01/06/2024		**Version Number**	1.0	

Relation with other Modules			
Prerequisite module	AE111	**Semester**	1
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents	
Module Objectives	1. After studying the basic principles of design, the necessity of design interaction with its surrounding environment is stressed here, through a series of lectures and field visits to different urban fabrics, and applying all of that later in the final project, which represents a summary of everything that the student was exposed to in the first stage. 2. Developing the student's language of expression on design vocabulary 3. Developing the student's artistic and formative sense, and the analytical-synthetic thinking style. 4. Developing the student's awareness and sensitivity to the natural and urban environment, and respecting it, starting from understanding and appreciating the traditional urban environment, studying the formative and directive relationships of its elements and components.
Module Learning Outcomes	Having successfully completed this course, the student will be able to understand: • Anthropometrics pertaining to various areas of space design. • Determine space requirements for various day to day activities. • Establish relations between form, space and function with the help of simple flow path, circulation diagrams etc.
Indicative Contents	**Spatial Organization** Three-dimensional organization of a variety of forms to create built forms, importance of shades and shadows in the entire composition, layout of repetitive units within a site to create interesting and functional compositions. Design exercises • Evolution of plan in relation to physical, site considerations, selection of materials and construction, study of architectural design vis a vis the concepts of privacy, security, comfort and maintenance • Single room design, such as self-occupied room, tea stall, guard room, canopy, boundary wall etc. • Design of small residential components, such as a kitchen, bathroom, bedroom etc

Learning and Teaching Strategies	
Strategies	Case studies along with primary and secondary surveys. • Documentation of various data collected from case studies, research and literature studies. • Models and sketches.
	• Synergy of various layers of data and its application in a small-scale space design.

Student Workload (SWL)			
Structured SWL (h/sem)	120	**Structured SWL (h/w)**	8
Unstructured SWL (h/sem)	80	**Unstructured SWL (h/w)**	5.33
Total SWL (h/sem)	**200**		

Module Evaluation					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Assignments**	2	10% (10)	5 and 10	#1#2#3
	Assignments	2	10% (10)	2 and 12	#1#2#3
	Projects	1	10% (10)	Continuous	#2#3
	Projects	1	10% (10)	13	#3 #4
Summative assessment	**Midterm Presentation**	4hr	10% (10)	7	All
	Final Presentation	4hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	A visit to one of the historical sites outside the city of Najaf.
Week 2	Standardized drawings of one of the important landmarks that were visited.
Week 3	Study of the site and its determinants, a study of traditional areas.
Week 4	Studying the traditional Najafi house and its relationship to its surroundings, spatial organization, functional relations....
Week 5	Functional study of the elected project
Week 6	Studying the location, surroundings, and various environmental and contextual influences
Week 7	- Studying the effectiveness in an in-depth manner in terms of functional aspects and expressive and symbolic requirements - Mid-Term Exam
Week 8	Sketch Design
Week 9	Architectural form studies
Week 10	Studying the design concept and how to crystallize it
Week 11	Forming and developing the design concept.
Week 12	Emphasis on building materials and the structural system.
Week 13	A short project through which the concepts that have been exposed are applied.
Week 14	By using museum board students will explore all these value through building physical models
Week 15	Final submission, models, drawings to, facades, plans, sections, Isometric or perspective.
Week 16	**Preparatory week before the final Exam**

Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	Ching, F. D. K. (2012). Architecture: Form, Space and Order. 3rd Ed. Hoboken: John Wiley & Sons.	PDF
Recommended Texts	Watson, D. (Editor). (2005) Time-saver Standards for Architectural Design: Technical Data for Professional Practice, 8th Ed., McGraw-Hill.	PDF
Websites		

Grading Scheme

Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	**A** - Excellent	امتاز	90 - 100	Outstanding Performance
	B - Very Good	جد جدا	80 - 89	Above average with some errors
	C - Good	جد	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 (قد 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.

Name and Signature of head of Department

Asst.Prof.Dr Raed Abdullah Hasan

MODULE DESCRIPTION **(ARCHITECTURAL DRAWING II)**

Module Information					
Module Title	**Architectural Graphics II**			**Module Delivery**	
Module Type	**Core**			☒ **Theory** ☐ **Lecture** ☐ **Lab** ☐ **Tutorial** ☒ **Practical** ☐ **Seminar**	
Module Code	**AE1202**				
ECTS Credits	**5**				
SWL (hr/sem)	**125**				
Module Level		1	**Semester of Delivery**		2
Administering Department		AE	**College**	**Architectural Engineering Center**	
Module Leader	Raed Abdullah Hasan		**e-mail**	Raed_hasan@uosamarra.edu.iq	
Module Leader's Acad. Title		---	**Module Leader's Qualification**		---
Module Tutor	Name (if available)		**e-mail**	E-mail	
Peer Reviewer Name		Name	**e-mail**	E-mail	
Scientific Committee Approval Date		01/06/2023	**Version Number**		1.0

Relation with other Modules			
Prerequisite module	AE112	**Semester**	1
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents	
Module Objectives	Module Overview: The Engineering Architectural Drawing module is designed to provide first-year engineering students with a comprehensive understanding of architectural drawing techniques and principles. This module emphasizes manual drafting skills, focusing on traditional methods and tools rather than computer-aided design (CAD) software. Students will learn how to create accurate and detailed architectural drawings by hand, gaining a strong foundation in technical drawing practices commonly used in the field of engineering. Module Objectives: 1. To introduce students to the fundamental principles and concepts of architectural drawing and its significance in the field of engineering design. 2. To develop students' proficiency in using manual drafting tools and equipment for architectural drawing. 3. To enable students to interpret and create accurate and detailed architectural drawings, including plans, elevations, sections, and details. 4. To teach students appropriate scaling and dimensioning techniques to accurately represent objects and structures in architectural drawings. 5. To familiarize students with standard architectural drawing conventions, symbols, and notation commonly used in the industry. 6. To enhance students' communication and presentation skills through the creation of clear and concise architectural drawings. 7. To instill in students an understanding of industry-standard drawing standards and practices to ensure compliance with engineering regulations and requirements. 8. To foster effective collaboration and teamwork skills through group projects involving architectural drawing exercises. 9. To provide students with opportunities to apply theoretical knowledge and practical skills to solve real-world architectural drawing challenges. 10. To prepare students for further study and practical application of architectural drawing techniques in subsequent engineering modules and professional practice.
Module Learning Outcomes	Module Learning Outcomes: Upon successful completion of this module, students will be able to: 1. Understand the fundamental principles of architectural drawing and its importance in engineering design. 2. Demonstrate proficiency in using drafting tools and equipment for manual architectural drawing. 3. Interpret and create architectural drawings, including plans, elevations, sections, and details. 4. Apply appropriate scaling and dimensioning techniques to accurately

	represent objects and structures in drawings. 5. Develop an understanding of standard architectural drawing conventions, symbols, and notation. 6. Demonstrate effective communication and presentation skills through the creation of clear and concise architectural drawings. 7. Apply industry-standard drawing standards and practices to ensure compliance with engineering regulations and requirements. 8. Collaborate effectively with peers in group projects involving architectural drawing exercises.
Indicative Contents	Indicative Contents of the Module: Semester 1: 1. Introduction to Architectural Drawing a. Importance and scope of architectural drawing in engineering b. Historical overview of architectural drawing techniques c. Introduction to basic drawing tools and equipment 2. Freehand Sketching and Visualization a. Principles of freehand sketching b. Techniques for representing objects and spaces in two dimensions. c. Visualization exercises to develop spatial thinking and observation skills. 3. Geometric Constructions and Orthographic Projection a. Construction of basic geometric shapes and forms b. Principles of orthographic projection and Multiview drawings c. Creation of plans, elevations, and sections of simple objects and structures 4. Introduction to Architectural Drawing Types a. Understanding different types of architectural drawings (plans, elevations, sections, details) b. Techniques for creating accurate and scaled architectural drawings. c. Interpretation and analysis of architectural drawings in the context of engineering design Semester 2: 1. Technical Drawing Standards and Conventions a. Introduction to industry-standard drawing standards and conventions b. Drawing layout, sheet organization, and annotation c. Application of scale, line weights, and line types in architectural drawing

	2. Advanced Orthographic Projection and Auxiliary Views d. Advanced principles of orthographic projection e. Creation of sectional views and auxiliary views to represent complex objects. f. Introduction to dimensioning and tolerance concepts in architectural drawing 3. Isometric and Perspective Drawings g. Principles of isometric and perspective drawing h. Techniques for creating three-dimensional representations of objects and spaces. i. Application of shading and rendering techniques in architectural drawings 4. Collaborative Drawing Projects and Portfolio Development j. Group projects involving complex architectural drawing exercises. k. Collaboration and teamwork skills in architectural drawing l. Creation of a portfolio showcasing the student's best architectural drawings

Learning and Teaching Strategies	
Strategies	Learning and Teaching Strategies: 1. Lectures: The module will include lectures delivered by the instructor to introduce and explain key concepts, techniques, and principles of architectural drawing. Lectures will provide theoretical foundations and guidance for the practical application of drawing skills. 2. Demonstrations: The instructor will demonstrate various manual drafting techniques and methods, showcasing proper use of drafting tools and equipment. Students will observe and learn through visual demonstrations, allowing them to understand and replicate the techniques in their own work. 3. Practical Sessions: Students will participate in practical sessions where they will actively engage in architectural drawing exercises. These sessions will provide hands-on experience with manual drafting tools and allow students to practice and develop their drawing skills under the guidance of the instructor. 4. Group Work: Collaborative group projects will be assigned to promote teamwork and communication skills. Students will work together on

	architectural drawing assignments, allowing them to share ideas, perspectives, and problem-solving approaches. 5. Critique and Feedback: Regular critique sessions will be conducted, where students will present their drawings to the instructor and peers for evaluation and feedback. Constructive feedback will help students identify areas for improvement and refine their drawing techniques. 6. Tutorials and Workshops: Additional tutorial sessions and workshops may be provided to address specific challenges or topics that require further clarification. These sessions will allow students to seek assistance, ask questions, and receive one-on-one guidance from the instructor. 7. Independent Study: Students will be encouraged to engage in independent study and practice outside of class. This may involve reviewing lecture notes, conducting research on architectural drawing techniques, and practicing drawing exercises to reinforce learning. 8. Visual Resources and References: Visual resources, such as examples of architectural drawings, textbooks, and online references, will be provided to supplement learning. These resources will aid students in understanding drawing conventions, standards, and best practices. 9. Portfolio Development: Students will be encouraged to maintain a portfolio of their architectural drawings throughout the module. This portfolio will showcase their progress, development, and the range of skills they have acquired. 10. Field Visits and Guest Speakers: Opportunities may be provided for students to visit architectural sites or attend guest lectures by industry professionals. These experiences will expose students to real-world applications of architectural drawing and provide insights into the profession. 11. Assessment and Feedback: Assessment methods such as practical drawing exercises, written assignments, group projects, and examinations will be used to evaluate students' understanding and application of architectural drawing principles. Constructive feedback will be provided to support students' learning and growth.

Student Workload (SWL)			
Structured SWL (h/sem)	78	**Structured SWL (h/w)**	5.2
Unstructured SWL (h/sem)	47	**Unstructured SWL (h/w)**	3.1
Total SWL (h/sem)	**125**		

Module Evaluation					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	2	10% (10)	5 and 10	LO #1, #2, #4 and #6
	Assignments	2	20% (20)	Continuous	LO #2- #7
	Projects / Lab.	1	10 % (10)	Continuous	LO #8
	Report				
Summative assessment	**Midterm Exam**	2hr	10 % (10)	7	LO #1 - #7
	Final Exam	3hr	50% (50)	16	LO #1 - #7
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
Weeks 1-4	- Advanced Orthographic Projection - Sectional views - Auxiliary views - Revolved and rotated views
Weeks 5-8	- Advanced Drawing Techniques - Pictorial drawings - Exploded views. - Assembly drawings - Mid-term Exam
Weeks 9-12	- Detailing and Annotation - Dimensioning methods - Surface finish and material specifications - Bill of materials
Weeks 13-15	- Collaborative Drawing Projects - Group projects involving architectural drawing exercises
Week 16	- Teamwork and collaboration skills in architectural drawing
	Preparatory week before the final Exam
Semester 2	
Weeks 1-4	
Weeks 5-8	
Weeks 9-12	
Weeks 13-15	
Week 16	

Learning and Teaching Resources		
	Text	**Available in the Library?**

Required Texts	1. "Architectural Graphics" by Francis D.K. Ching and James F. Eckler - This comprehensive textbook covers the principles and techniques of architectural drawing, including line types, scales, orthographic projection, and architectural lettering. It also explores the use of computer-aided design (CAD) software in architectural drawing. 2. "Architectural Drawing and Light Construction" by Edward J. Muller and Philip A. Grau III - This book provides a practical approach to architectural drawing, focusing on both manual and CAD techniques. It covers topics such as architectural drafting standards, construction drawings, dimensioning, and detailing. 3. "Engineering Drawing and Design" by David A. Madsen, David P. Madsen, and Emeritus John R. Wallace - This textbook offers a comprehensive introduction to engineering drawing principles and practices. It covers topics such as geometric constructions, orthographic projection, isometric drawing, dimensioning, and tolerancing. 4. "Architectural Drafting and Design" by Alan Jefferis and David A. Madsen - This textbook provides a thorough introduction to architectural drafting, including architectural symbols, drafting conventions, working drawings, and building information modeling (BIM). It also covers topics like sustainability, energy-efficient design, and construction materials.	---
	5. "Architectural Drawing Course: Tools and Techniques for 2D and 3D Representation" by Mo Zell - This book offers a practical guide to architectural drawing techniques, including freehand sketching, orthographic projection, isometric drawing, and perspective drawing. It also covers digital representation methods and architectural communication.	
Recommended Texts	"Architectural Graphics" by Francis D.K. Ching and James F. Eckler	---
Websites		

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

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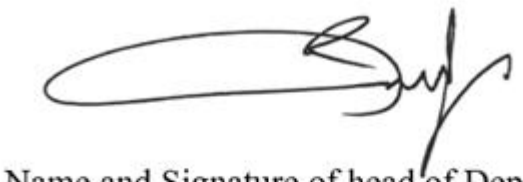

Name and Signature of head of Department

Asst.Prof.Dr Raed Abdullah Hasan

MODULE DESCRIPTION **FREE HAND II**

Module Information					
Module Title	**Free hand II**			**Module Delivery**	
Module Type	**Basic**			☒ **Theory** ☐ **Lecture** ☐ **Lab** ☐ **Tutorial** ☒ **Practical** ☐ **Seminar**	
Module Code	**AE1203**				
ECTS Credits	**5**				
SWL (hr/sem)	**125**				
Module Level	1		**Semester of Delivery**	2	
Administering Department	**AE**		**College**	**Architectural Engineering Center**	
Module Leader	**Zakaria Hashem**		**e-mail**	**Zakria.ha.ah@uosamarra.edu.iq**	
Module Leader's Acad. Title	---		**Module Leader's Qualification**	---	
Module Tutor	Name (if available)		**e-mail**	E-mail	
Peer Reviewer Name	Name		**e-mail**	E-mail	
Scientific Committee Approval Date	00/06/2023		**Version Number**	1.0	

Relation with other Modules			
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents	
Module Objectives	Module Overview: Freehand2 drawing is the artistic part of architectural drawing, this module is designed to provide second-year Architecture students with a comprehensive understanding of Free hand coloring techniques and principles. This module emphasizes skills, focusing on traditional free hand coloring methods and drawing tools. Students will learn how to create accurate and detailed coloring drawings by hand, gaining a strong foundation in free hand practices commonly used in the field of Architecture. watercolor is a water-soluble paint made of pigments suspended in a water-based solution. This flexible and non-toxic coloring medium works well in a wide range of arts and Architecture projects. Module Objectives: 1. To learn the most important techniques used in the advance of freehand drawing (such as water color). 2. To introduce students to the fundamental principles and concepts of Free hand coloring and its significance in the field of Architectural design. 3. To exercise Students to realize the exact details in the physical reality and being aware of the rates and movement, shadow, light by color. 4. To enable students to interpret and create accurate and detailed free hand coloring drawings, including, nature, furniture, and Architectural details. 5. To teach students appropriate scaling and dimensioning techniques to accurately represent objects and structures in free hand drawings. 6. To familiarize students with free hand coloring technique. 7. To enhance students' communication and presentation skills through the creation of clear and concise free hand coloring drawings. 8. To instill in students an understanding of industry-standard drawing standards and practices to ensure compliance with engineering regulations and requirements. 9. To foster effective collaboration and teamwork skills through group projects involving free hand coloring drawing exercises. 10. To provide students with opportunities to apply theoretical knowledge and practical skills to solve real-world free hand drawing challenges. 11. To prepare students for further free hand with oil color study and practical techniques 12. Enable the student to understand the vocabulary that will be used in other lessons such as design and architectural drawing.
Module Learning Outcomes	Module Learning Outcomes: Upon successful completion of this module, students will be able to: 1. Understand the fundamental principles of free hand coloring drawing and its importance in Architecture design. 2. Demonstrate proficiency in using tools and equipment for manual Free hand drawing. 3. Demonstrate effective communication and presentation skills through the creation of clear and concise free hand drawings.

	4. Collaborate effectively with peers in group projects involving Free hand coloring drawing exercises. 5. Freehand Drawing is organized around the concepts for drawing from perception. 6. It is based on working from still life, architecture, landscape, and photo collages. 7. The objectives are to examine the various components of drawing: line, value, texture, & composition.
Indicative Contents	Indicative Contents of the Module: Semester 1: 1. Introduction to coloring: a. Importance of coloring in Architecture b. Introduction to collecting color. 2. color Types: a. Water color b. Gouache color c. Acrylic color d. Chalk color Semester 2: 1. coloring tools and equipment. 2. Water color Types a. Watercolor Pans. b. Watercolor Tubes. c. Liquid Watercolor Paints. 3. Watercolor Palette Types. 4. Watercolor Brushes types.

Learning and Teaching Strategies	
Strategies	Learning and Teaching Strategies: 1. Lectures: The module will include lectures delivered by the instructor to introduce and explain key concepts, techniques, and principles of Free hand. Lectures will provide theoretical foundations and guidance for the practical application of free hand skills. 2. Demonstrations: The instructor will demonstrate various manual drawing techniques and methods, showcasing proper use of drafting tools and equipment. Students will observe and learn through visual demonstrations, allowing them to understand and replicate the techniques in their own work. 3. Practical Sessions: Students will participate in practical sessions where they will actively engage in Free hand exercises. These sessions will provide hands-on experience with manual drafting tools and allow students to practice and develop their drawing skills under the guidance of the instructor.

	4. Group Work: Collaborative group projects will be assigned to promote teamwork and communication skills. Students will work together on free hand assignments, allowing them to share ideas. 5. Critique and Feedback: Regular critique sessions will be conducted, where students will present their drawings to the instructor and peers for evaluation and feedback. Constructive feedback will help students identify areas for improvement and refine their drawing techniques. 6. Tutorials and Workshops: Additional tutorial sessions and workshops may be provided to address specific challenges or topics that require further clarification. These sessions will allow students to seek assistance, ask questions, and receive one-on-one guidance from the instructor. 7. Independent Study: Students will be encouraged to engage in independent study and practice outside of class. This may involve reviewing lecture notes, conducting research on free hand drawing, and practicing drawing exercises to reinforce learning. 8. Visual Resources and References: Visual resources, such as examples of drawing, textbooks, and online references, will be provided to supplement learning. These resources will aid students in understanding drawing conventions, standards, and best practices. 9. Portfolio Development: Students will be encouraged to maintain a portfolio of their free hand drawings throughout the module. This portfolio will showcase their progress, development, and the range of skills they have acquired. 10. Field Visits and Guest Speakers: Opportunities may be provided for students to visit sites or attend guest lectures by professional artist. These experiences will expose students to real-world applications of free hand. 11. Assessment and Feedback: Assessment methods such as practical Free hand exercises, group projects, and examinations will be used to evaluate students' understanding and application of free hand principles. Constructive feedback will be provided to support students' learning and growth.

Student Workload (SWL)			
Structured SWL (h/sem)	78	**Structured SWL (h/w)**	5.2
Unstructured SWL (h/sem)	47	**Unstructured SWL (h/w)**	3.1
Total SWL (h/sem)	**125**		

Module Evaluation					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	2	20% (20)	5 and 10	LO #1, #2, #4 and #6
	Assignments	2	15% (15)	Continuous	LO #2- #7
	Projects / Lab.	1	5% (5)	Continuous	LO #8
	Report				
Summative assessment	**Midterm Exam**	2hr	10% (10)	7	LO #1 - #7
	Final Exam	3hr	50% (50)	16	LO #1 - #7
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
Semester 1	**Material Covered**
Week 1-2	- Introduction to free hand coloring Importance of Free hand coloring in Architectural design - Overview of coloring tools and equipment - Introduction to collecting color.
Week 3-6	- color Types: 1. Watercolor 2. Gouache color 3. Acrylic color 4. Chalk color
Weeks 7-10	- coloring tools and equipment - Watercolor Palette Types. - Watercolor Brush types - Mid-Term Exam
Weeks 11-15	- Water color Types -Watercolor Pans. -Watercolor Tubes. -Liquid Watercolor Paints
Week 16	**Preparatory week before the final Exam**
Semester 2	
Weeks 1-4	- wet or dry. -wet or wet.
Weeks 5-8	- Drawing water color with mask. -Water color washes
Weeks 9-12	- Drawing water color with painter touch
Weeks 13-15	• Collaborative Drawing Projects - Group projects. • Teamwork and collaboration skills in water color
Week 16	**Preparatory week before the final Exam**

Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	1. "Water color Techniques " by Emma Forge This comprehensive textbook covers the principles and techniques of water color, and many ways of coloring for Architecture. 2. "Artist Drawing techniques " by Saffron Stocker - This book provides a practical approach to coloring many subject one of them Architecture.	No
Recommended Texts	Water color Lessons: How to Paint and Unwind in 20 Tutorials (How to paint with water colors for beginners) Emma Lefebvre	No
Websites	https://www.watercoloronline.com/	

Grading Scheme				
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.

Name and Signature of head of Department
Asst.Prof.Dr Raed Abdullah Hasan

MODULE DESCRIPTION **(BUILDING CONSTRUCTION I)**

Module Information					
Module Title	Building Construction I			**Module Delivery**	
Module Type	**Support**			☒ **Theory** ☐ **Lecture** ☐ **Lab** ☐ **Tutorial** ☒ **Practical** ☐ **Seminar**	
Module Code	**AE1204**				
ECTS Credits	**4**				
SWL (hr/sem)	**100**				
Module Level	1		**Semester of Delivery**	2	
Administering Department	**AE**		**College**	**Architectural Engineering Center**	
Module Leader	**Mushtaq Hashem Kamel**		**e-mail**	---	
Module Leader's Acad. Title	---		**Module Leader's Qualification**	---	
Module Tutor	Name (if available)		**e-mail**	E-mail	
Peer Reviewer Name	Name		**e-mail**	E-mail	
Scientific Committee Approval Date	00/06/2023		**Version Number**	1.0	

Relation with other Modules			
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents	
Module Objectives	1. Learn about different local and international building materials 2. Learn the properties of building materials and their specifications 3. Focus on available building materials 4. Connecting and installing materials together
Module Learning Outcomes	5. Be able to know building materials and the difference between them 6. Use the right building material in the right place 7. Taking into account the economic cost in choosing building materials 8. Be able to know the materials that can be used outside the building and the materials that can be used inside the building 9. The possibility of using available local materials as a substitute for imported materials to reach the same performance 10. Understanding the importance of knowing the engineering properties of each building material and studying its specifications 11. Understand the concept of sustainable construction and how new technologies can be incorporated in the construction of sustainable low-rise buildings
Indicative Contents	- Definition of local and international building materials, factors affecting the quality of materials and the method of their selection - Addressing some construction concepts (walls, foundations, floors, ceilings, partitions and columns). [8 hrs] - The materials used in construction bricks stones concrete blocks. [16 hrs] - bonding materials - resistance to external conditions used in interior walls. [4 hrs] - Insulating materials in construction Moisture insulation - thermal insulation. [10 hrs] - The finishing materials in construction external walls interior walls - External floors - Interior floors. [12 hrs] - Basic materials in construction - Wood
	Steel. [8 hrs]

Learning and Teaching Strategies	
Strategies	The learning and teaching strategies for construction of buildings in the architecture department may include: Lectures: Traditional classroom lectures delivered by professors to provide theoretical knowledge and introduce key concepts related to building construction techniques, materials, and methods. Site Visits: Organizing visits to construction sites to observe and study real-life construction processes, techniques, and building systems. Construction Materials and Methods: Exploring various construction materials, their properties, and appropriate applications, as well as different construction methods and techniques for foundations, walls, roofs, and finishes. These learning and teaching strategies aim to provide students with a comprehensive understanding of construction processes, techniques, and systems in the field of building construction.

Student Workload (SWL)			
Structured SWL (h/sem)	63	**Structured SWL (h/w)**	4.2
Unstructured SWL (h/sem)	37	**Unstructured SWL (h/w)**	2.47
Total SWL (h/sem)	**100**		

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

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Introduction - Defining local and international building materials, determining the factors affecting the quality of materials and the method of their selection.
Week 2	Structural concepts, walls and supports, partitions, foundations, floors, ceilings
Week 3	Building using bricks, types of bricks,
Week 4	uses of bricks in construction, types of bonding
Week 5	Building using stones, joints in connecting stones
Week 6	Construction using concrete blocks
Week 7	Binding materials in construction, their types and characteristics
Week 8	Midterm Exam
Week 9	Moisture-proofing materials, their types, and their characteristics
Week 10	Heat insulation and fire resistance materials
Week 11	The finishing materials in construction external walls
Week 12	interior walls
Week 13	External floors Interior floors
Week 14	Wood, its uses in construction, its properties, and its disadvantages
Week 15	Iron and steel, its uses, structural properties
Week 16	**Preparatory week before the final Exam**

Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	انشاء المباني / يوسف الدواف	yes
Recommended Texts	- تركيب المباني / انيس جواد سلمان - انشاء المباني / زهير ساكو – ارتين ليفون	yes
Websites	https://engineering.mu.edu.iq/?epkb_post_type_1	

Grading Scheme				
Group	**Grade**	التقدير	**Marks %**	**Definition**
Success Group (50 - 100)	**A** - Excellent	امتاز	90 - 100	Outstanding Performance
	B - Very Good	جد جدا	80 - 89	Above average with some errors
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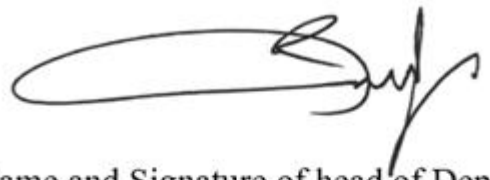


Name and Signature of head of Department

Asst.Prof.Dr Raed Abdullah Hasan

MODULE DESCRIPTION
(ARCHITECTURAL HISTORY I)

Module Information					
Module Title	**Architectural History I**			**Module Delivery**	
Module Type	**Core Learning activity**			☐ **Theory** ☒ **Lecture** ☐ **Lab** ☐ **Tutorial** ☐**Practical** ☐ **Seminar**	
Module Code	**AE1205**				
ECTS Credits	3				
SWL (hr/sem)	**75**				
Module Level	2		**Semester of Delivery**	4	
Administering Department	Architecture		**College**	**Architectural Engineering Center**	
Module Leader	Rauoof Abd al razaq		**e-mail**		
Module Leader's Acad. Title	Lecturer		**Module Leader's Qualification**	M.Sc.	
Module Tutor			**e-mail**	E-mail	
Peer Reviewer Name	Name		**e-mail**	E-mail	
Scientific Committee Approval Date	01/06/2024		**Version Number**	1.0	

Relation with other Modules			
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents	
Module Objectives	1- The aim of the lesson is to identify the nature of the emergence of the first civilizations, their buildings, and their settlement in the Mesopotamia Valley, and to trace the development of architecture in them until the Islamic conquests that were affected by it, as the difference in thought and belief was shown. 2- Preparing an architectural student with the ability to distinguish between architectural civilizations 3- Giving the ability to know the philosophical and theoretical ideas of architectural design formations 4- Learn about the most important historical periods of civilizations 5- Learn about the distinctive formations and architectural details of ancient civilizations
Module Learning Outcomes	Cognitive goals (knowledge and understanding) 1- Introducing what architecture is and the history of architecture 2- Learn the civilization of Mesopotamia in terms of architecture and philosophical ideas for architectural formations 3- Learn about the architectural formations and how they relate to the different cultures of ancient civilizations 4- Identify the architectural details within each historical period of a group of time periods of the Mesopotamian civilization and its reflection in architecture 5- Learn about the principles of architecture in urban and Arab caravan cities and study the most important components and details architecture that characterized each time period Skill objectives (subject specific skills) 6- Preparing reports by students in which projects of distinguished architects are selected to introduce students to how to deal with philosophical ideas and theoretical and design trends. 7- The ability of students to interact with each other within student groups (joint interaction) Emotional and value goals (thinking skills) 8- Enabling students to learn about the history of architecture in order to reach a clear perception of the most important architectural formations and details to increase awareness and systematic study education 9- The ability to distinguish the creative design ideas of historical civilizations by presenting and benefiting from the configurations of distinguished architectural buildings. 10- Enable students to solve their design problems General and transferable skills (other skills related to employability and personal development). 11- The ability to form architectural forms based on design principles 12- Choosing distinct architectural formations of ancient historical civilizations to

	present and discuss with students. 13- Developing his personality and being an educational and educational process at the same time 14- The ability to work with others with discipline within a single work team 15- A full awareness of the ethical and practical responsibility for team and individual action.
Indicative Contents	Methods of teaching and learning 1- Explanation of the lectures 2- How to show examples 3- The way to ask questions 4- test method 5- Self-learning method Evaluation modalities Theoretical study: 1- Students' response through actual participation in the lecture through interaction, asking questions and discussing the answer 2- Questions and discussion of the answer. 3- Evaluation through weekly tests. 4- Evaluation through exams, contributions, participation and attendance 5- Scientific tests 6- Reports and studies monitoring and tracking student progress: 7- Student activity and participation during the lecture. 8- The extent of the student's interest in providing the practical studies that are required of him. 9- The student's rush to attend the lecture despite the existence of various kinds of difficulties.

Learning and Teaching Strategies	
Strategies	The academic program includes two aspects, one of which complements the other (theoretical side) of the course in the form of lectures, (the practical side) represents the complementary side of the course and is represented by preparing reports for distinct architectural projects within the time periods that are studied within the prescribed curriculum and explaining philosophical ideas, formations and architectural design methods. Students are taught the design method according to the principles in terms of studying the architectural formations and details During the academic program, the technology provided by the tools (such as the smart board, computer, etc.) is used to discuss and present the projects selected by the students. Evaluation methods: Evaluation through monthly and quarterly exams, contributions, participation and attendance, in addition to evaluating reports and studies.

Student Workload (SWL) For 15 weeks			
Structured SWL h/sem)	48	**Structured SWL (h/w)**	3.2
Unstructured SWL (h/sem)	27	**Unstructured SWL (h/w)**	1.8
Total SWL (h/sem)	**75**		

Module Evaluation					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	10	10% (10)	Continuous	All
	Assignments	2	10% (10)	5 and 10	All
	Report	1	10% (10)	14	All
	Seminar	1	10% (10)	15	All
Summative assessment	**Midterm Exam**	2hr	10% (10)	12	All
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	An introductory lecture to explain the nature of the material and its components, and the sources and reports required from students, in addition to explaining how to benefit from the material in architectural design
Week 2	Settlement theory and the stone ages
Week 3	Metal Stone Age
Week 4	The development the Warka and the proto-literate (proto-historic)
Week 5	Early Dynastic period
Week 6	The Sumerian era and the Akkadian era
Week 7	Third Ur dynasty
Week 8	Old Babylonian and Kassite era
Week 9	Assyrian era
Week 10	The last Babylonian period, the Chaldean state
Week 11	Parthian era, Seleucid era, Sasanian era
Week 12	**Mid-term Exam.**
Week 13	Al-hadier city
Week 14	The Arab caravan cities
Week 15	**Seminars**
Week 16	**Preparatory week before the final Exam**

Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	History of Architecture, Sir Banister Fletcher tcher تاريخ العراق القديم، طه باقر تاريخ فن العمارة العراقية في مختلف العصور، شريف يوسف	Yes
Recommended Texts		
Websites		

Grading Scheme				
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.

Name and Signature of head of Department
Asst.Prof.Dr Raed Abdullah Hasan

MODULE DESCRIPTION **(ENGLISH LANGUAGE I)**

Module Information					
Module Title	**English Language I**			**Module Delivery**	
Module Type	**Support**			☒ **Theory** ☐ **Lecture** ☐ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**UOS-12011**				
ECTS Credits	**2**				
SWL (hr/sem)	**50**				
Module Level	1		**Semester of Delivery**	2	
Administering Department	**AE**		**College**	**Architectural Engineering Center**	
Module Leader	Ghassan Dhahed Kawan		**e-mail**		
Module Leader's Acad. Title	---		**Module Leader's Qualification**	---	
Module Tutor	---		**e-mail**	---	
Peer Reviewer Name			**e-mail**	E-mail	
Scientific Committee Approval Date	00/06/2023		**Version Number**	1.0	

Relation with other Modules			
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents	
Module Objectives	1. Communication Skills: Develop students' speaking and listening abilities to engage in basic conversations, ask and answer questions, and express opinions on familiar topics. 2. Vocabulary Expansion: Expand students' everyday vocabulary through reading, listening, and interactive activities. 3. Grammar Understanding: Teach students essential grammar structures and patterns, including simple tenses, verb forms, and basic sentence construction. 4. Reading and Writing Skills: Improve students' reading comprehension and writing skills by exposing them to various text types and guiding them in constructing simple, coherent written texts.
Module Learning Outcomes	Important: Write at least 6 Learning Outcomes, better to be equal to the number of study weeks. Six learning outcomes of the module that combine multiple ABET components: 1. Apply language proficiency and effective communication skills (ABET A, B): Demonstrate the ability to effectively communicate in English, applying acquired knowledge of vocabulary, grammar, and language structures to express thoughts, ideas, and opinions clearly and coherently in various contexts. 2. Comprehend and analyze written and spoken English materials (ABET C, G): Demonstrate the ability to comprehend and critically analyze written and spoken English texts, including identifying main ideas, evaluating arguments, and synthesizing information. 3. Expand vocabulary and apply grammatical rules (ABET D, E): Expand and enhance English vocabulary by learning new words, idioms, and phrases, while applying knowledge of grammar rules and structures to construct grammatically correct sentences, paragraphs, and compositions. 4. Develop reading, writing, and information analysis skills (ABET F, G): Develop reading and writing skills in English by comprehending written texts, extracting key information, and producing well-structured compositions. Apply critical thinking skills to analyze and evaluate English language materials, including identifying biases and drawing conclusions. 5. Adapt language skills to cultural contexts (ABET B, H): Demonstrate effective communication and cultural awareness by recognizing and respecting cultural differences, adapting language usage appropriately, and effectively communicating with individuals from different cultural backgrounds. 6. Foster lifelong learning and ethical language use (ABET I, J): Develop a desire for lifelong learning in English language skills by seeking opportunities for continued language development and self-improvement. Demonstrate ethical and professional behavior in English language communication, including respecting intellectual property rights, maintaining academic integrity, and using language responsibly.

Indicative Contents	Indicative content includes the following. Part 1: Language Skills The Language Skills section of the English language module for the first-class Architecture Engineering program, based on New Headway Elementary, comprises units focused on greetings, architectural descriptions, project presentations, technical drawing, and report writing. These units introduce essential vocabulary, sentence structures, and language patterns required for effective communication in the architectural field. Students will practice engaging in conversations, describing architectural structures, presenting project plans, interpreting technical drawings, and writing comprehensive project reports. By mastering these language skills, students will develop a solid foundation for expressing themselves accurately and confidently in architectural contexts. Part 2: Communication Skills The Communication Skills section of the English language module for the first-class Architecture Engineering program, influenced by New Headway Elementary, includes units dedicated to developing effective communication abilities. Students will enhance their presentation skills by organizing and delivering architectural presentations, incorporating visual aids and engaging techniques. They will participate in collaborative design discussions, practicing giving and receiving constructive feedback while reaching consensus in design decisions. Additionally, students will learn negotiation skills for interacting with clients, understand cross-cultural communication dynamics, and refine their professional email writing skills. These communication skills are essential for successful interactions, teamwork, and effective communication within the architectural industry.

Learning and Teaching Strategies	
Strategies	The main strategy that is adopted in this unit is to encourage students to participate in exercises while improving constructive critical thinking skills and expanding them at the same time while correcting misconceptions. This is done through explanation and the practical side through simple experiments that will develop the concept of space engineering, which includes activities What students do that interests them.

Student Workload (SWL)			
Structured SWL (h/sem)	33	**Structured SWL (h/w)**	2.2
Unstructured SWL (h/sem)	17	**Unstructured SWL (h/w)**	1.13
Total SWL (h/sem)	**50**		

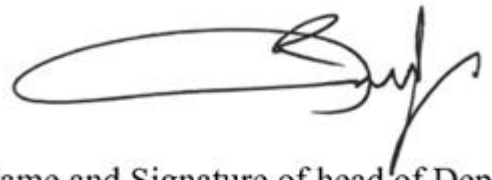
Module Evaluation					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	2	10% (10)	5 and 12	LO #1, #2 and #4
	Assignments	3	10% (10)	4,9 and 12	LO #3, #4
	Projects / Lab.	1	10% (10)	13	All
	Report	2	10% (10)	8&14	LO #5, #7and #6
Summative assessment	**Midterm Exam**	2hr	10% (10)	8	All
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Greetings and Introductions: greetings, introductions, names, countries, languages
Week 2	Everyday Activities: wake up, get dressed, have breakfast, go to work, watch TV.
Week 3	Free Time: hobbies, activities, sports, music, movies
Week 4	Present Simple and Present Continuous: daily routines, habits, actions, temporary situations.
Week 5	Shopping: clothes, sizes, prices, shopping, discounts
Week 6	Describing People: appearance, personality, character, relationships, feelings
Week 7	Past Simple and Past Continuous: past events, completed actions, ongoing actions
Week 8	Mid exam
Week 9	Describing Places: cities, countries, landmarks, activities, attractions
Week 10	Expressions and Emotions: idioms, emotions, feelings, expressions, reactions
Week 11	the Restaurant: menu, ordering food, making reservations, paying the bill
Week 12	Future Plans : future arrangements, intentions, predictions, schedules
Week 13	Jobs and Careers: professions, job interviews, qualifications, work experience
Week 14	Describing Experiences: travel, holidays, adventures, memorable moments
Week 15	Ability and Permission: can, could, may, might, should
Week 16	**Preparatory week before the final Exam**

Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	- The New Headway elementary fourth edition by Liz & John - Soars, Oxford University Press,2011	Yes
Recommended Texts	English for builders and architects, R Rakhimova, Nova 2009	---
Websites	https://www.youtube.com/watch?v=LB8zpf_MWgw	

Grading Scheme				
Group	**Grade**	التقدير	**Marks %**	**Definition**
Success Group (50 - 100)	**A -** Excellent	امتاز	90 - 100	Outstanding Performance
	B - Very Good	جد جدا	80 - 89	Above average with some errors
	C - Good	جد	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.



Name and Signature of head of Department

Asst.Prof.Dr Raed Abdullah Hasan

MODULE DESCRIPTION **(COMPUTER I)**

Module Information معلومات المادة الدراسية					
Module Title	**Computer I**			**Module Delivery**	
Module Type	**Support**			☒ **Theory** ☐ **Lecture** ☒**Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**UOS-1101**				
ECTS Credits	**3**				
SWL (hr/sem)	75				
Module Level	1		**Semester of Delivery**	1	
Administering Department	**AE**		**College**	**Architectural Engineering Center**	
Module Leader	Maha Rahman Rahi		**e-mail**		
Module Leader's Acad. Title	---		**Module Leader's Qualification**	---	
Module Tutor	Name (if available)		**e-mail**	E-mail	
Peer Reviewer Name	Name		**e-mail**	E-mail	
Scientific Committee Approval Date	01/06/2023		**Version Number**	1.0	

Relation with other Modules			
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents	
Module Objectives	1. Finding the ability to deal and understand with computer lab in laboratory locations. 2. Identify engineering concepts within the field of computer applications related to architectural engineering work through design, implementation and work auditing. 3. To introduce and develop the basic understanding of the principles of computer features and application.
Module Learning Outcomes	After successful completion of this course, students will be. 1- Able to perform documentation and presenting skills. 2- Proficient in using Windows, Word Processing Applications, Spreadsheet Applications, Database Applications and Presentation Graphics Applications. 3- The students will be able to explain the general concepts of the Word processors, application with the window elements of the Word Program 4- The students will be able to do text processing, apply the applications about page design and print. 5- The students will apply the Table applications. 6- The students will be able to implement procedures for the drawing tools and objects over the Microsoft Word program. 7- As a result of taking the Advanced Topics In Microsoft Excel Course, Students Will Be Able to: Edit worksheets using advanced enhancements and worksheet features, Create templates after writing complex worksheets and workbooks. 8- Import and Export data to and from Excel and other Office applications, enhance lists using pivot tables and pivot table charts, Audit and check worksheets and workbooks for errors, summarize data in worksheets and workbooks, Customize Excel worksheets and workbooks. 9- Use case studies to create worksheets and workbooks. 10- Because of taking the Advanced Topics in Microsoft PowerPoint Course, Students Will Be Able to: Identify the names and functions of the PowerPoint interface, Create, edit, save, and print presentations. 11- Format presentations, add a graphic to a presentation, Create and manipulate simple slide shows with outlines and notes. 12- Create slide presentations that include text, graphics, animation, and transitions, use design layouts and templates for presentations, Create a PowerPoint presentation. 13- As a result of taking the Advanced Topics internet Course, Students Will Be Able to: • To be able to explain the initial and development process of the internet. • To explain the functions of important internet services • To be able to define the main components of web architecture. • To be able to explain the purpose of using front-end and back-end web technologies. To explain the formation of HTML language

Indicative Contents	Indicative content includes the following. Part A – Windows 10 Explains the basics of Windows 10 in an easy way for beginners Explains the task bar in detail Explains how to change the date and time settings Change the language and location Windows Feedback Explains the Touch keyboard, Navigation, Windows Feedback, Tablet mode, Connect, Note, On Note, All settings, Battery saver, VPN, Bluetooth, Brightness, Wi-Fi. [15 hrs.] PART B- Microsoft Office (word) Designed by Word 2010 to help students in the Department of Architecture create professional-quality documents. Word can also help you organize and write documents more efficiently. When student create a document in Word, you can choose to start from a blank document or let the template do a lot of the work for you. After that, the basic steps for creating and sharing documents are the same. In addition, Word is a powerful editing and revision tool that can help you work with others to make your document great. [15 hrs] Part C – Learning Excel 2010 These materials introduce basic Excel skills such as entering various types of data, working with common formulas and functions, and creating a simple chart. We will also cover formatting a worksheet, naming a range of cells, adding columns to a spreadsheet, and creating a data table. [15 hrs.] Part C – Learning Power Point 2010 and Internet [PowerPoint 2010 is a complete presentation graphics program that allows you to produce professional-looking presentations. Slides can be created and displayed as a slide show on your computer, video projector, or on the Internet. In addition, It helps the students with the learning process as it helps to simplify the knowledge. In addition, it helps to visualize what the teachers in school are teaching. If you want to prepare for final exams, you can access Video Tutorials and other resources online through the Internet. [15 hrs.]

Learning and Teaching Strategies	
Strategies	The main strategy that is adopted in this unit is to encourage students to participate in exercises while improving constructive critical thinking skills and expanding them at the same time while correcting misconceptions. This is done through explanation and
	the practical side through simple experiments that will develop the concept of space engineering, which includes activities, what students do that interests them.

Student Workload (SWL)			
Structured SWL (h/sem)	48	**Structured SWL (h/w)**	3.2
Unstructured SWL (h/sem)	27	**Unstructured SWL (h/w)**	1.8
Total SWL (h/sem)	**75**		

Module Evaluation					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	2	10% (10)	5 and 10	LO #1, #2 and #10, #11
	Assignments	2	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Projects / Lab.	1	10% (10)	Continuous	All
	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)	
	Material Covered
Week 1	Introduction - Definition of Computer, Its Components and How It Works.
Week 2	File Definition, Types, Naming, And an Explanation of The MSDOS Operating System And Its Internal and External Commands, Introduction to Windows, Desktop. Using The Mouse, My Computer, Closing Any Open Window, Temporary Closes
Week 3	Zooming Any Window, Creating New Folder, Select, Find Folder or File Copying From Any Folder To Another, How To Start Any Program, Print Program, Shut Down, Formatting Floppy Disk, Scandisk, Arranging Icon, Run, Help
Week 4	Microsoft Word, File (New, Open, Close, Save, Save As Page Setup, Print Preview, Print) Edit (Undo Typing, Repeat Typing, And Cut Copy, Past. Clear, Select All, Find Replace, Go To),
Week 5	View (Tools Bars, Heard and Footer, Zoom) Insert (Page Numbers, Symbol, Footnote, Picture, Textbox, Object). Format (Font Paragraph, Bullets and Numbering, Borders and Shading. Columns),
Week 6	Tools (Spelling and Grammar, Language), Table (Insert Table, Insert Rows, Delete Cells, Split Cells, Select Row, Select Column), Table (Table Auto Format, Sort Formula).
Week 7	- Microsoft Excel: How To start Excel Program, Menu Bar Tool - Bar Formula Bar, Worksheet, Cell, Cell, Creating New Workbooks, Open Existing Workbooks. - Mid-Term Exam
Week 8	Clearing Cell, Saving Your Work, Closing Workbooks, Zoom, and Drag. In Addition, Drop, Inset Cells, Delete Cell, Find, Replace, Auto Sum.
Week 9	Enter A Formula Manually, Formatting Work Sheet, Auto Format, Print, Print Preview.

Week 10	Microsoft Excel: How To start Excel Program, Menu Bar Tool Bar Formula Bar, Worksheet, Cell, Cell, Creating New Workbooks, Open Existing Workbooks, Charts
Week 11	What Is the Power Point Presentation System and How to Access It, File: New, Open, Close Save, Save As, Page, Setup, Print, Exit,
Week 12	Edit: Undo Repeat, Cut, Copy, and Paste, Select All Clear, Duplicate, Delete Slide, Find, Replace. New: Slide, Slide Show, Tools, Header and Footer, Zoom, Insert: New Slide, Slide Number, Date and Time, Slide from File, Picture, And Text Box. Movies And Sounds, Chart, Object, Tools: Spilling, Format: Font Alignment, Text Direction, Slide Layout, Background, Apple Deeding Slid Show: View Show Rehearse Taming, Setup Shoe, Preset Animation and Animation Preview, Slid Transition.
Week 13	Format Capabilities, Format Capabilities Tools Commands.
Week 14	Internet
Week 15	Final Exam

Delivery Plan (Weekly Lab. Syllabus)

	Material Covered
Week 1	What Is the Power Point Presentation System And How To Access It.? File new, Open, Close Save, Save As, Page, Setup, Print, and Exit.
Week 2	Edit: Undo Repeat, Cut, Copy, and Paste, Select All Clear, Duplicate, Delete Slide, Find, Replace.
Week 3	New: Slide, Slide Show, Tools, Header and Footer, Zoom
Week 4	Insert: New Slide, Slide Number, Date and Time, Slide from File, Picture, And Text Box. Movies And Sounds, Chart, Object, Tools: Spilling.
Week 5	Format: Font Alignment, Text Direction, Slide Layout, Background, Apple Deeding
Week 6	Slid Show: View Show Rehearse Taming, Setup Shoe, Preset Animation and Animation Preview, Slide Transition. An Introductory Lecture on What Are the Required Spreadsheet Programs, Then the Specificity of Excel Programs
Week 7	Explain The Possibilities of Entering and Exiting and Storing And Recalling Information
Week 8	Explain The Capabilities of Editing Information (Delete - Copy - Move)
Week 9	Display Commands and Accessories
Week 10	Input Orders and Change Information
Week 11	Format Capabilities
Week 12	Tools Commands
Week 13	Tools Commands, Internet
Week 14	Internet
Week 15	Exam

Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	Linda Foulkes, 2020: Learn Microsoft Office 2019, A comprehensive guide to getting started with Word, PowerPoint, Excel, Access, and Outlook. BIRMINGHAM – MUMBAI. Published by Packt Publishing Ltd.	---
Websites	https://www.haio.ir/app/uploads/2022/05/Learn-Microsoft-Office-2019-Acomprehensive-guide-to-getting-started-with-Word-PowerPoint-Excel-Access-and-Outlook-Linda-Foulkes-z-lib.org_.pdf	

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

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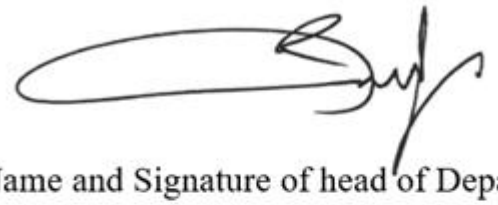

Name and Signature of head of Department

Asst.Prof.Dr Raed Abdullah Hasan

Modules Description Second Level

MODULE DESCRIPTION **(ARCHITECTURAL DESIGN III)**

Module Information					
Module Title	**Architectural Design III**			**Module Delivery**	
Module Type	**Core learning activity**			☐ **Theory** ☒ **Lecture** ☒ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**AE211**				
ECTS Credits	**10**				
SWL (hr/sem)	**250**				
Module Level	2		**Semester of Delivery**	3	
Administering Department	Architecture		**College**	Architectural Engineering Center	
Module Leader	**Maan Sahab Muhamad**		**e-mail**	**dr.maanalbadri@uosamarra.edu.iq**	
Module Leader's Acad. Title	Lecturer		**Module Leader's Qualification**	Ph.D	
Module Tutor	Name (if available)		**e-mail**	E-mail	
Peer Reviewer Name			**e-mail**		
Scientific Committee Approval Date	01/06/2024		**Version Number**	1.0	

Relation with other Modules			
Prerequisite module	Architectural Design Principles II ARE121	**Semester**	2
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents	
Module Objectives	To introduce students with the fundamentals of collective housing design and to develop the students' capability to design residential building using architectural standards, regulations and architectural language.
Module Learning Outcomes	1. Successfully demonstrate knowledge about residential housing, typologies and main forms 2. Demonstrate the understanding of architectural and urban context. 3. Perform the ability to use norms and standards in proper way, and to use proper typology of residential buildings. 4. Perform knowledge about appropriate approaches and methods of infill design. 5. Develop skills of understanding human needs in order to have quality life.
Indicative Contents	1. Determining space for activities such as living, dining, sleeping and conveniences. 2. Measured drawing of a small building such as, a small room/studio, etc. of a house, office etc. 3. develop an understanding of the way building structure, construction and services inform, interpret and contribute to the architectural design process; 4. Provide the opportunity for the demonstration of that understanding as an essential component of practical architectural design 5. Simple circulation flow diagrams for small building projects. 6. Three-dimensional organization of a variety of forms to create built forms, importance of shades and shadows in the entire composition, layout of repetitive units within a site to create interesting and functional compositions.

Learning and Teaching Strategies	
Strategies	- Class discussions with examples. - Active tutorial sessions for engaged learning and continuous feedback on progress. - Class debates on relevant case studies.

Student Workload (SWL) For 15 weeks			
Structured SWL (h/sem)	150	**Structured SWL (h/w)**	10
Unstructured SWL (h/sem)	100	**Unstructured SWL (h/w)**	6.7
Total SWL (h/sem)	250		

Module Evaluation					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Assignments**	2	10% (10)	5 and 10	
	Assignments	2	10% (10)	2 and 12	
	Projects	1	10% (10)	Continuous	
	Projects	1	10% (10)	13	
Summative assessment	**Midterm Presentation**	4hr	10% (10)	7	
	Final Presentation	4hr	50% (50)	15	
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Introduction to the course. Explanation of tasks and expectations.
Week 2	Urban /Site/ Analysis. Historic overview of the development of collective housing.
Week 3	Residential typologies. Spatial requirements, dimensional standards in collective housing design
Week 4	Dimensional standards in collective housing design.
Week 5	Organizational characteristics of the single residential unit
Week 6	Presentation of certain elements in conceptual design project.
Week 7	Analysis of referent examples. Typologies and practice.
Week 8	Midterm presentation
Week 9	Analysis of referent examples. Functional organization of apartments.
Week 10	Building envelope and materials. Design reviews
Week 11	Analysis of referent examples. Site visit.
Week 12	Analysis of referent examples regarding facades, shapes etc.
Week 13	Work presentation of conceptual design project.
Week 14	Final review of students' projects
Week 15	final presentation

Delivery Plan (Weekly Lab. Syllabus)	
	Material Covered

Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts		No
Recommended Texts	Watson, D. (Editor). (2005) Time-saver Standards for Architectural Design: Technical Data for Professional Practice, 8th Ed., McGraw-Hill.	Yes
Websites		

Grading Scheme				
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.

Name and Signature of head of Department

Asst.Prof.Dr Raed Abdullah Hasan

MODULE DESCRIPTION
(Architectural Presentation)

Module Information					
Module Title	**Architectural Presentation**			**Module Delivery**	
Module Type	**Core Learning activity**			☐ **Theory** ☒ **Lecture** ☒ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**AE212**				
ECTS Credits	**6**				
SWL (hr/sem)	**150**				
Module Level	2		**Semester of Delivery**	3	
Administering Department	Architecture		**College**	**Architectural Engineering Center**	
Module Leader			**e-mail**		
Module Leader's Acad. Title	Lecturer		**Module Leader's Qualification**	M.Sc.	
Module Tutor	Name (if available)		**e-mail**	E-mail	
Peer Reviewer Name	Name		**e-mail**	E-mail	
Scientific Committee Approval Date	01/06/2024		**Version Number**	1.0	

Relation with other Modules			
Prerequisite module	Architectural Drawing and Visualization ARE 122	**Semester**	2
Co-requisites module	Architectural design studio III ARE 212	**Semester**	2

Module Aims, Learning Outcomes and Indicative Contents	
Module Objectives	1- The lesson aims to develop students' knowledge of the basics and skills of measured two- and three-dimensional architectural drawings 2- Introduce students to how to employ these measured graphics and use them as a means to express their design ideas by showing them in the form of three-dimensional graphics that convey and express their ideas 3- Developing students' skills in various architectural directing methods using (pencils, wooden pens, ink pens, watercolors and posters, texture and pantone colors, collage / .... etc.) 4- This aims to teach the student how to choose the appropriate means in the architectural rendering process 5- Using the rendering process as an expressive tool in an architectural language that conveys the idea of design production 6- The lesson contributes greatly to the process of expanding the imaginary horizon prior to students' ideas, and thus the ease of conveying these ideas by choosing an appropriate method of presentation.
Module Learning Outcomes	Cognitive goals (knowledge and understanding) 1- To familiarize the student with the types of isometrics 2- To familiarize the student with perspective and its types 3- To distinguish between isometric and perspective 4- To distinguish between areas of shadow, shadows and light 5- The student chooses the appropriate drawing mechanism for the proposed model 6- The student chooses the most beautiful model and angle in the engineering drawing 7- That the student distinguishes between the types of colors used in the architectural display Marathi Output (subject specific skills) 8- To draw and show the student the isometric of the geometric and nongeometric shapes of the design plans 9- To draw and show the student the perspective and all kinds of design schemes 10- The student applies the appropriate colors for the proposed design scheme 11- The student should use all kinds of colors in his design plans 12- That the student devise new ways of showing Emotional and value outputs (thinking skills) 13- To distinguish between the different types of isometrics 14- To understand the difference between isometric and perspective 15- The student analyzes the model and chooses the best angle for drawing 16- For the student to link between the architectural rendering techniques lesson and other related lessons as a lesson of Design, for example, in the application of visual skills General and transferable skills 17- Developing the student's personality in line with the requirements of architecture 18- Developing the student's ability to communicate his idea and project to the recipient in the simplest and most beautiful ways and tools 19- Developing the student's ability to deal fruitfully with the recipient, since architecture is from and to the recipient and for all segments in society. 20- Developing the student's personality in analysis and synthesis to reach innovation 21- Encourage the student to innovate new ways of displaying

Indicative Contents	Education for students through: 1- Lecture by course instructor 2- Use the brainstorming method 3- Use the discussion method 4- Giving the student the freedom to choose the angle of drawing, and then discussing with him the advantages and disadvantages of this angle 5- Diversity in choosing drawing models 6- Collective criticism of students' products 7- Displaying models of previous stages, if any, or selected models and images to serve the course Student assessment by: 1- The student's response to the notes and directions given by the professor 2- Practical application of the student inside the classroom and through homework as well 3- The emotional interaction of the student with the vocabulary of the lesson and the keenness to provide the best 4- Follow-up the student's skill development for the academic year 5- The student's realization of the importance of the lesson in completing his requirements as an architect

Learning and Teaching Strategies	
Strategies	The lesson of architectural drawing and rendering bears the greatest responsibility in defining and enabling the student to produce and display his final project in a manner appropriate to the idea and design scheme, so the lesson of rendering techniques represents two interconnected parts of the techniques starting with architectural drawing and ending with architectural rendering techniques, so it was necessary to have a theoretical lecture in each lesson To explain the techniques of isometric and perspective engineering display of all kinds, the techniques of distributing the drawing inside the board and the different ways of producing it, with the presence of a practical application for each lecture in the classroom and homework with the addition of color and display technology, all of this is applied using the lecture method using the smart board and pen to draw illustrations. The lesson is practical, so the class application depends on what is presented to him by the student as a way to evaluate the objectives of the lesson, as well as the homework, while conducting sudden and announced tests.

Student Workload (SWL) For 15 weeks			
Structured SWL (h/sem)	75	**Structured SWL (h/w)**	5
Unstructured SWL (h/sem)	75	**Unstructured SWL (h/w)**	5
Total SWL (h/sem)	**150**		

Module Evaluation					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	2	10% (10)	5 and 10	All
	Homework	13	10% (10)	Continuous	All
	Projects / Lab.	14	15% (15)	Continuous	All
	Final Project	1	5% (5)	15	All
Summative assessment	**Midterm Exam**	3hr	10% (10)	12	All
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	An introductory lecture - introducing students to the nature and requirements of the subject, with examples of the products of previous years students using the isometric method in its various types. Primitive Objects. Two-dimensional graphics - drawing basic shapes.
Week 2	2D Drawings - drawing horizontal Plans, drawing Elevations and Sections
Week 3	3D Drawings: Learn to draw isometric types by drawing Primitive Objects, cubes and rectangular prisms.
Week 4	3D Drawings: Learn to draw the dome, vault and arches using the isometric method
Week 5	Shade and Shadows: Learn how to project them onto simple and complex plans and elevations. And **Quiz**
Week 6	3D Drawings: Perspective with one vanishing point, drawing Primitive Objects, cubes and rectangular prisms.
Week 7	3D Drawings: Perspective with one vanishing point, drawing complex objects
Week 8	3D Drawings: Perspective with two vanished points, drawing Primitive Objects, cubes and rectangular prisms.
Week 9	3D Drawings: Perspective with two vanished point, drawing complex objects
Week 10	3D Drawings: Sective and **Quiz**
Week 11	3D Drawings: Interior perspective with one vanishing point, Draw the interior perspective with one vanishing point showing the ceilings, walls, and floors
Week 12	Mid-term Exam.
Week 13	3D Drawings: Perspective plan drawing of the interior spaces with furniture
Week 14	3D Drawings: A perspective drawing of a skyscraper with floors divided
Week 15	**Final Project: Presenting integrated plans for a building (2D and 3D plans) with choosing the appropriate display for the project**
Week 16	**Preparatory week before the final Exam**

Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	الظل والمنظور ، عماد محمد البكري Working and design drawing, Rudolf Prenzel Architecture drawing Architecture details	yes
Recommended Texts		
Websites	https://www.youtube.com/channel/UCAVDseen1swiR0WkfwN-Kzg	

Grading Scheme				
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.

Name and Signature of head of Department
Asst.Prof.Dr Raed Abdullah Hasan

MODULE DESCRIPTION **(STRUCTURES I)**

Module Information					
Module Title	**Structures I**			**Module Delivery**	
Module Type	**Support**			☐ **Theory** ☒ **Lecture** ☐ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**AE213**				
ECTS Credits	**4**				
SWL (hr/sem)	**100**				
Module Level	3		**Semester of Delivery**	1	
Administering Department	**AE**		**College**	**Architectural Engineering Center**	
Module Leader	Muhammad Abbas Husayn		**e-mail**	mhmdabbas@uosamarra.edu.iq	
Module Leader's Acad. Title			**Module Leader's Qualification**		
Module Tutor	Name (if available)		**e-mail**	E-mail	
Peer Reviewer Name	Name		**e-mail**	E-mail	
Scientific Committee Approval Date	01/06/2024		**Version Number**		

Relation with other Modules			
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents	
Module Objectives	1. Teaching students the concepts of forces and moments and their effects on structures. 2. Providing students with the basics of equilibrium in structures and the basics of structural analysis. 3. Teaching students the types of trusses and their methods of analysis. 4. Teaching students the concepts of centroid and moment of inertia. 5. Providing students the principles of axial, shear, and moment diagrams for beams. 6. Teaching students the basics of stress and strain in structural members.
Module Learning Outcomes	1. 2. The ability to understand the effects of loads on structures. 3. Understanding the concept of equilibrium in structures. 4. Knowing the types of trusses and how they work in structures. 5. Acquiring the skill of drawing axial, shear, and moment diagrams for beams and understanding their concepts. Understanding the basics of stress and strain in structural members and their applications in structures.
Indicative Contents	This module establishes the basic principles of structural analysis and its relationship with architectural design. The course begins by presenting the principles of force and moments and how they affect structures and their behavior, and explores the principle of equilibrium and its applications in structures, then focusing on trusses and their importance in architecture applications and how they work and analyzed. The module then moves on to other topics related to internal actions in structural members, starting from the centroid of member cross sectional area and its moment of inertia, then presenting how to draw axial, shear, and moment diagrams for beams, and finally providing the principles of stress and strain in structural members to deepen the understanding of the effects of loading on structural parts and its role in architectural design.

Learning and Teaching Strategies	
Strategies	The learning and teaching strategies for the module includes: Lectures: providing theoretical knowledge and introduce key concepts related to the structure's topics. Assignments: Assigning students to do homework in order to apply the theories they learned in class. Supplementary sources: Providing useful sources to deepen the understanding. Virtual class: Take advantage of virtual classes to provide the opportunity for discussion and presentation of the basic and additional information

Student Workload (SWL)			
Structured SWL (h/sem)	63	**Structured SWL (h/w)**	4.2
Unstructured SWL (h/sem)	37	**Unstructured SWL (h/w)**	2.47
Total SWL (h/sem)	**100**		

Module Evaluation					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	2	10% (10)	5 and 10	#2, #3 and #4
	Assignments	2	10% (10)	5 and 10	All
	Attendance	1	5% (5)	Continuous	All
Summative assessment	**Midterm Exam**	2hr	15% (15)	8	#1 - #3
	Final Exam	3hr	60% (60)	17	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Introduction, Forces and their Effects, Types of Forces.
Week 2	Resultant of Forces in Plane (Concurrent Forces).
Week 3	Resultant of Forces in Plane (Nonconcurrent and Parallel Forces), Couple and Moment.
Week 4	Equilibrium of Particles and Bodies.
Week 5	Applications in Equilibrium for beams and Frames.
Week 6	Trusses and their types, Methods of Analysis.
Week 7	Applications in Trusses Analysis.
Week 8	Midterm Exam
Week 9	Centroid of Area.
Week 10	Moment of Inertia.
Week 11	Applications in Centroid and Moment of Inertia.
Week 12	Axial Force, Shear, and Moment diagrams.
Week 13	Applications in Axial Force, Shear, and Moment diagrams.
Week 14	Stress: Normal, Shear, and Bending Stresses.
Week 15	Strain and its Applications.
Week 16	**Preparatory week before the final Exam**

Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	**Basic Structures for Engineers and Architects**, *Philip Garrison*, Blackwell Publishing Ltd., 2005.	yes
Recommended Texts	1. **Engineering Mechanics: Statics**, *R.C. Hibbeler*, Pearson Education, 12th edition, 2010. 2. **Mechanics of Materials**, *R.C. Hibbeler*, Pearson Education, 8th edition, 2011.	yes
Websites	https://mechanicsmap.psu.edu/index.html	

Grading Scheme				
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.

Name and Signature of head of Department

Asst.Prof.Dr Raed Abdullah Hasan

MODULE DESCRIPTION of **AutoCAD**

Module Information					
Module Title	**Engineering Drawing Using AutoCAD**			**Module Delivery**	
Module Type	**Support**			☐ **Theory** ☒ **Lecture** ☒ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**AE214**				
ECTS Credits	**4**				
SWL (hr/sem)	**100**				
Module Level	1	**Semester of Delivery**	1		
Administering Department	AE	**College**	Architectural Engineering Center		
Module Leader	Dr. Raed Abdullah Hassan	**e-mail**	Raed_hasan@uosamarra.edu.iq		
Module Leader's Acad. Title	Assist. Lecturer	**Module Leader's Qualification**	MSc.		
Module Tutor	Name (if available)	**e-mail**	E-mail		
Peer Reviewer Name		**e-mail**			
Scientific Committee Approval Date	01/06/2024	**Version Number**	1.0		

Relation with other Modules			
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents	
Module Objectives	1. The students obtain knowledge and understanding in the subject of engineering drawing by using the computer through the AutoCAD program Understanding and teaching students the basics of engineering drawing related to computer engineering 2. Knowing the correct methods of engineering drawing using the computer and how to apply them in the AutoCAD program in the field of computer engineering 3. Increasing the student's experience in identifying drawing, designing engineering, electronic shapes, and electrical circuits. 4. Easy to publish, and give the drawing on people across the globe just in a second.
Module Learning Outcomes	5. Explain why CAD software is now replacing traditional pencil drawing. 6. Explain commands and AutoCAD's user interfaces, description of menu Bar and toolbars of AutoCAD 7. Recognize how AutoCAD defines the position of points with coordinates and specify the angle in AutoCAD 8. Explain How to draw lines, circles, Ellipses, Rectangles and arcs using precise methods 9. Learn editing commands: copy, cut, paste, erase, move, selecting objects, orthogonal projection, ISO drawing. 10. Developing the students' practical, theoretical and creative abilities in computer design techniques of various types. CAD Electrical, drawing electrical symbols on simple architectural plans
Indicative Contents	**Indicative content includes the following.** Part A – AutoCAD interfaces The use of CAD in engineering drawing, description of menu Bar and toolbars [6 hrs.] Part B – Drawing Drawing Ellipse, Rectangle, line, Ray, Circle, point, Arc, ---------- etc. [24 hrs.] Part C – Editing Commands and CAD Electrical CAD Electrical, the use of various layers, drawing electrical symbols on simple architectural plans, editing commands: copy, cut, paste, erase, move, selecting objects, orthogonal projection, ISO drawing. [15 hrs.]

Learning and Teaching Strategies	
Strategies	The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, homework's and examples. Practical examples help students to understand the course material.

Student Workload (SWL) For 15 weeks			
Structured SWL (h/sem)	**63**	**Structured SWL (h/w)**	**4**
Unstructured SWL (h/sem)	**37**	**Unstructured SWL (h/w)**	**2.46**
Total SWL (h/sem)	**100**		

Module Evaluation					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	**2**	**10% (10)**	**7 and 12**	**LO #1 to #4 and #5, #6**
	Assignments	**3**	**20% (20)**	**4 ,6 and 13**	**LO #1 to #3 and #4 to #6**
	Practice/lab	**1**	**10% (10)**	**Continuous**	**All**
Summative assessment	**Midterm Exam**	**2hr**	**10% (10)**	**8**	**LO #1 to #4**
	Final Exam	**3hr**	**50% (50)**	**16**	**All**
Total assessment			**100% (100 Marks)**		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	The use of CAD in engineering drawing
Week 2	description of menu Bar and toolbars
Week 3	Line, point
Week 4	Rectangle
Week 5	Circle
Week 6	drawing Ellipse
Week 7	Arc, ---------- etc.
Week 8	editing commands
Week 9	copy, cut
Week 10	paste, erase
Week 11	move
Week 12	selecting objects
Week 13	selecting objects
Week 14	CAD Electrical selecting objects
Week 15	Mechanical/ Special features the use of various layers selecting objects
Week 16	**Preparatory week before the final Exam**

Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	• AutoCAD 2019 Beginning and Intermediate • The benefits of using the electrical toolset in AutoCAD	pdf
Recommended Texts	Any other materials available on the web.	No
Websites	https://www.youtube.com/playlist?list=PLHCD1a8slQtJbEKJawJL9qQaY5P9SgCUX	

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

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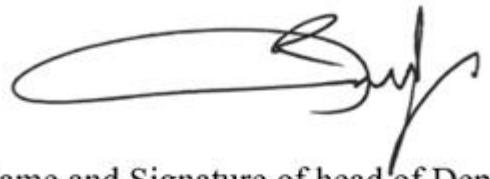


Name and Signature of head of Department

Asst.Prof.Dr Raed Abdullah Hasan

MODULE DESCRIPTION OF **(BUILDING CONSTRUCTION II)**

Module Information					
Module Title	**Building Construction II**			**Module Delivery**	
Module Type	**Core learning activity**			☒ **Theory** ☐ **Lecture** ☒ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**AE215**				
ECTS Credits	**4**				
SWL (hr/sem)	**100**				
Module Level	2		**Semester of Delivery**	4	
Administering Department	Architecture		**College**	**Architectural Engineering Center**	
Module Leader	Safaa Yasin Hamd		**e-mail**	Safaa.yassin@uosamarra.edu.iq	
Module Leader's Acad. Title	Lecturer assistant		**Module Leader's Qualification**	M.Sc.	
Module Tutor	Name (if available)		**e-mail**	E-mail	
Peer Reviewer Name	Name		**e-mail**	E-mail	
Scientific Committee Approval Date	01/06/2024		**Version Number**	1.0	

Relation with other Modules			
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents	
Module Objectives	1. The student gets acquainted with some aspects of technical systems related to building information that the architect must know in order to develop his ability to design structurally, and then infiltrate 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. 2. In general, the focus is on the solid structural system and the use of brick material that is suitable for the environment and local architecture (especially the city of Najaf as an enhancement to the local architecture). 3. The study material includes two parts, the first is theoretical that deals with general principles (particularly the solid system), and the second is practical, dealing with ways of expressing structural problems in an architectural language as an application of theoretical material. 4. 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.
Module Learning Outcomes	Important: Write at least 6 Learning Outcomes, better to be equal to the number of study weeks. 1. - Increasing the student's knowledge base from the practical and executive side. 2. - The student is introduced to the building and construction systems in general. 3. Understanding and comprehending the information of the basic and secondary elements of the building and its complementary components, leading to the understanding of the building as a whole. 4. - Forming a knowledge base for the student that qualifies him to understand the structural and operational processes. 5. - The student's understanding of building materials and external and internal finishes and knowing their characteristics. 6. - The student's ability to employ the structural elements of the building in a way that is compatible with the architectural elements. 7. Be able to know building materials and the difference between them

Indicative Contents	- Structural Structures and Columns (20 h) - Structural design principles - Types of columns and their components - Column installation and installation techniques - Structural walls and ceilings (20 h) - Types of structural walls - Wall mounting techniques - Types of roofs and their installation - Doors and Windows (10 hours) - Types of doors and windows - Door and window installation and installation techniques - Interior and exterior finishes (20 hours) - Concepts of interior and exterior finishes - Installation of floors and interior walls - Installation of external facades and external finishes - Isolation and protection systems (10 hours) - Types of thermal and acoustic insulation systems - Installation and isolation techniques - Fire protection systems and natural disasters - Review and applied projects (10 hours) - Comprehensive review of school subjects - Apply theoretical knowledge in practical projects

Learning and Teaching Strategies	
Strategies	Active Learning: Active participation in practical processes, such as gathering materials and installation, and collaborating on team projects. This helps apply theoretical concepts in a practical context and enhance understanding and practical skills. 1- Discussion and interaction: Discuss concepts and issues with colleagues and teachers. Inquire about any unclear ideas and listen to the views of others. This can help promote critical thinking and a deep understanding of the material. 2- Cooperative learning: working in small groups to solve problems and to practice compositional techniques. Knowledge and experience can be shared with colleagues and understanding enhanced through collaboration and communication. 3- Use of various sources: Make use of various learning resources such as textbooks, articles, electronic resources, and educational videos. Explore practical examples and case studies to illustrate concepts and their practical applications. 4- Creative solutions: Using creative thinking and searching for innovative solutions to problems in building installation.

Student Workload (SWL) For 15 weeks			
Structured SWL (h/sem)	63	**Structured SWL (h/w)**	4.2
Unstructured SWL (h/sem)	37	**Unstructured SWL (h/w)**	2.47
Total SWL (h/sem)	100		

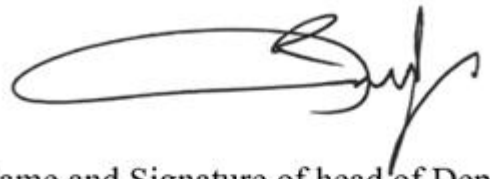
Module Evaluation تقييم المادة الدراسية					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	2	10% (10)	5 and 10	LO #1, #2 and #10, #11
	Assignments	2	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Projects / Lab.	1	10% (10)	Continuous	All
	Report	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)	
	Material Covered
Week 1	Introduction - Definition of Engineering surveying and the relationship of theoretical representation to reality, fields that can be employed in the service of architecture.
Week 2	construction operations - construction methods
Week 3	Structural systems (solid, structural, decimal)
Week 4	the wall as a structural element (the behavior of the structural element towards different stresses and ways to resist them)
Week 5	classification of walls structurally, methods of construction
Week 6	the wall with the building units (bricks), methods of attachment
Week 7	linking and the problem of coordinating dimensions
Week 8	Holes in Brick Walls + (Quick Exam)
Week 9	foundations
Week 10	foundations+ (Quick Exam)
Week 11	the upper floors (pipe, wood)
Week 12	concrete floors
Week 13	Selling

Week 14	Resistance to environmental factors in the wall, resistance to environmental factors in the floors and ceiling
Week 15	Mid exam
Week 16	**Preparatory week before the final Exam**
Delivery Plan (Weekly Lab. Syllabus)	
	Material Covered
Week 1	types of bonding in bricks
Week 2	types of walls (solid, hollow, wood, veneer, stone)
Week 3	Openings
Week 4	the foundations of the wall and floor
Week 5	Roofing (all types) Basement level, dome
Week 6	A Hole in the Roof Setting of constructions + (an isometric clip of a building from the foundation to the roof)
Week 7	final presentation and evaluation

Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	"Structures: Or Why Things Don't Fall Down" by J.E. Gordon. "Building Construction Illustrated" by Francis D.K. Ching.	No
Recommended Texts	Architectural Graphic Standards By The American Institute of Architects	Yes
Websites	https://www.khanacademy.org https://www.britannica.com	

Grading Scheme				
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.				



Name and Signature of head of Department

Asst.Prof.Dr Raed Abdullah Hasan

Module Description **(Crimes of the Baath Regime)**

Module Information معلومات المادة الدراسية					
Module Title	**Crimes of the Baath Regime**			**Module Delivery**	
Module Type	**B**			☐ **Theory** ☒ **Lecture** ☐ **Lab** ☐ **Tutorial** ☐**Practical** ☐ **Seminar**	
Module Code	**UOS- 2303**				
ECTS Credits	**2**				
SWL (hr/sem)	**50**				
Module Level	2		**Semester of Delivery**	3	
Administering Department	Architecture		**College**	**Architectural Engineering Center**	
Module Leader	Rauoof Abdulrazak Nori		**e-mail**	rauoof.a.nori@uosamarra.edu.iq	
Module Leader's Acad. Title	Lecturer		**Module Leader's Qualification**	M.Sc.	
Module Tutor			**e-mail**	E-mail	
Peer Reviewer Name	Name		**e-mail**	E-mail	
Scientific Committee Approval Date	01/06/2024		**Version Number**	1.0	

Relation with other Modules			
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents	
Module Objectives	1. To provide a comprehensive understanding of the Baath Regime, its rise to power, and the socio-political context in which it operated. 2. To examine the crimes committed by the Baath Regime, including human rights violations, war crimes, and genocidal acts. 3. To critically analyze the impact of the Baath Regime's policies on various ethnic, religious, and political groups. 4. To foster an understanding of the international response to the Baath Regime's actions and the subsequent legal and humanitarian consequences. 5. To encourage critical thinking about the legacy of the Baath Regime and the ongoing challenges in the region.
Module Learning Outcomes	By the end of this module, students should be able to: 1. **Identify and explain** the historical and political context of the Baath Regime's rise to power in Iraq. 2. **Critically analyze** the key events and policies of the Baath Regime that led to widespread human rights violations. 3. **Evaluate** the impact of the Baath Regime's crimes on various groups, including ethnic minorities, political dissidents, and religious communities. 4. **Discuss** the international legal frameworks and responses to the Baath Regime's actions, including sanctions, interventions, and trials. 5. **Synthesize** knowledge about the Baath Regime's legacy and its implications for contemporary Middle Eastern politics and global human rights discussions.
Indicative Contents	10- **Introduction to the Baath Party:** a Origins and ideology of the Baath Party in Iraq. b Key figures in the Baath Regime, including Saddam Hussein. c The role of the Baath Party in the political landscape of the Middle East. 11- **Consolidation of Power:** a The Baath Party's rise to power in Iraq. b Methods of control: propaganda, repression, and the use of security forces. c Political purges, coups, and the establishment of authoritarian rule. 12- **Crimes Against Humanity:** a The Anfal Campaign and the Kurdish genocide. b The use of chemical weapons in Halabja. c Repression of political opposition and the persecution of Shiite Muslims. d Mass executions, torture, and disappearances. 13- **War Crimes and Regional Conflict:** a The Iran-Iraq War: causes, major events, and war crimes. b The invasion of Kuwait and the Gulf War. c The impact of these conflicts on the civilian population. 14- **International Response and Legal Accountability:** a The role of the United Nations and other international organizations. b Sanctions, no-fly zones, and military interventions. c The trial of Saddam Hussein and other Baath officials. d Challenges of transitional justice in post-Baath Iraq. 15- **The Legacy of the Baath Regime:** a Long-term effects on Iraqi society.

	b The role of memory, trauma, and reconciliation. c Current political dynamics in the region influenced by the Baath Regime's legacy. 16- **Case Studies and Comparative Analysis:** a Comparison with other authoritarian regimes and genocides. b The role of international law in addressing state crimes. 17- **Student Presentations and Discussions:** a In-depth analysis of specific crimes or events related to the Baath Regime. b Discussions on the ethical implications of international intervention and justice.

Learning and Teaching Strategies	
Strategies	1. **Project-Based Learning:** Students create research projects on crimes such as the Anfal campaign and the use of chemical weapons. 2. **Inquiry-Based Learning:** Encourages students to ask questions about the causes and ethical-political implications of these crimes and research them. 3. **Group Discussions:** Enhances critical thinking through discussions on the impact of the crimes on communities and the role of leaders in their execution. 4. **Experiential Learning:** Includes field visits or using virtual reality to understand the depth and impact of the crimes. 5. **Collaborative Learning:** Students work in groups to analyze various aspects of the crimes and their effects from a multidisciplinary perspective. 6. **Use of Primary Sources:** Analyzing historical documents, testimonies, and documentaries to understand the facts on the ground. 7. **Problem-Based Learning:** Involves case studies on rebuilding affected communities and offering practical solutions. 8. **Student-Centered Learning:** Allows students to choose specific aspects of the crimes to study in-depth, presenting findings or creative projects. These strategies provide students with a deep and comprehensive understanding of the crimes of the Baath regime through diverse and effective learning approaches.

Student Workload (SWL) For 15 weeks			
Structured SWL h/sem)	33	**Structured SWL (h/w)**	2
Unstructured SWL (h/sem)	17	**Unstructured SWL (h/w)**	1
Total SWL (h/sem)	**50**		

Module Evaluation					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	10	10% (10)	Continuous	All
	Assignments	2	10% (10)	5 and 10	All
	Report	1	10% (10)	14	All
	Seminar	1	10% (10)	15	All
Summative assessment	**Midterm Exam**	2hr	10% (10)	12	All
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Violations of rights and freedoms
Week 2	A descriptive overview of the political systems in Iraq 1921-2003
Week 3	Violations of the Baath regime of public rights and freedoms
Week 4	The impact of the Baath regime's behaviors on society and its control over the state
Week 5	The impact of the transitional phase in combating authoritarian politics
Week 6	The psychological field, the social field
Week 7	Religion and the state
Week 8	Mid-term exam
Week 9	Culture, media and the militarization of society
Week 10	The impact of repression and wars on the environment and population
Week 11	The use of internationally prohibited weapons and environmental pollution
Week 12	Scorched earth policy
Week 13	Draining the marshes and forced migration
Week 14	Destruction of the agricultural and animal environment and radioactive pollution
Week 15	Mass graves and bombing of places of worship
Week 16	Final exam

Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	The curriculum of the crimes of the defunct Baath Party 2023 issued by the Ministry of Higher Education and Scientific Research	Yes
Recommended Texts		
Websites	https://www.uomustansiriyah.edu.iq/media/lectures/5/5_2023_10_02!01_30_03_AM.pdf	

Grading Scheme				
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.

Name and Signature of head of Department

Asst.Prof.Dr Raed Abdullah Hasan

MODULE DESCRIPTION (**Architectural Design IV**)

Module Information					
Module Title	**Architectural Design IV**			**Module Delivery**	
Module Type	**Core learning activity**			☐ **Theory** ☒ **Lecture** ☐ **Lab** ☐ **Tutorial** ☒ **Practical** ☒ **Seminar**	
Module Code	**AE221**				
ECTS Credits	**10**				
SWL (hr/sem)	**250**				
Module Level	2		**Semester of Delivery**	4	
Administering Department	**Architecture**		**College**	**Architectural Engineering Center**	
Module Leader			**e-mail**		
Module Leader's Acad. Title	Lecturer		**Module Leader's Qualification**	MSc	
Module Tutor	Name (if available)		**e-mail**	E-mail	
Peer Reviewer Name	Name		**e-mail**	E-mail	
Scientific Committee Approval Date	01/06/2024		**Version Number**	1.0	

Relation with other Modules			
Prerequisite module	Architectural Design III AE211	**Semester**	2
Co-requisites module	None	**Semester**	

Learning and Teaching Strategies	
Strategies	• Class discussions with examples. • Active tutorial sessions for engaged learning and continuous feedback on progress. • Class debates on relevant case studies.

Student Workload (SWL)			
Structured SWL (h/sem)	150	**Structured SWL (h/w)**	10
Unstructured SWL (h/sem)	100	**Unstructured SWL (h/w)**	6.7
Total SWL (h/sem)	**250**		

Module Aims, Learning Outcomes and Indicative Contents	
Module Objectives	The second year in architectural study represents an important transitional stage that moves the student from the stage of preparing designs of an abstract, definitional nature (represented in the first stage) to a more comprehensive stage in its definition of what architecture is (utility, durability, and beauty). With an emphasis on the concept of local privacy and integration with the urban context and landscape.
Module Learning Outcomes	• Designing a building of an educational nature. The goal is to identify the design principles of specialized buildings of a public service nature that include spaces of small, medium, and sometimes relatively large sizes. This project moves the student from the stage of thinking about buildings of a mass nature and load-bearing walls to another type of building that depends on combining more than one system. Constructive and within more complex contextual and expressive determinants than the residence hall project as an initial stage of the student's preparation for the third year. Expanding the architectural student's awareness and moving him from thinking about designing a single building with a specific function to a larger building with multiple functions.
Indicative Contents	1. Determining space for activities such as classes, administration, library, auditorium and cafeteria. 2. Measured drawing of a large building such as, a large auditorium, etc. of a school, collage etc. 3. develop an understanding of the way building structure, construction and services inform, interpret and contribute to the architectural design process; 4. Provide the opportunity for the demonstration of that understanding as an essential component of practical architectural design 5. Simple circulation flow diagrams for large building projects. 6.Three-dimensional organization of a variety of forms to create built forms, importance of shades and shadows in the entire composition, layout of repetitive units within a site to create interesting and functional compositions.

Module Evaluation					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Assignments**	2	10% (10)	2 and 3	
	Assignments	2	10% (10)	5and 7	
	projects	2	20% (20)	9 and 11	
	projects	1	20% (20)	13	
Summative assessment	**Midterm Exam** (Day sketch)	5hr	10% (10)	8	
	Final presentation	5hr	30% (30)	15	
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Introduction to the course. Explanation of tasks and expectations.
Week 2	Urban /Site/ Analysis. Historic overview of the development of collective education.
Week 3	Education typologies. Spatial requirements, dimensional standards in collective education design
Week 4	Dimensional standards in collective education design.
Week 5	Organizational characteristics of the schools
Week 6	Presentation of certain elements in conceptual design project.
Week 7	Analysis of referent examples. Typologies and practice.
Week 8	Midterm presentation
Week 9	Analysis of referent examples. Functional organization of schools.
Week 10	Building envelope and materials. Design reviews
Week 11	Analysis of referent examples. Site visit.
Week 12	Analysis of referent examples regarding facades, shapes etc.
Week 13	Work presentation of conceptual design project.
Week 14	Final review of students' projects
Week 15	final presentation

Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	Form, Space, and Order by Francis D.K. Ching	yes
Recommended Texts	• Watson, D. (Editor). (2005) Time-saver Standards for Architectural Design: Technical Data for Professional Practice, 8th Ed., McGraw-Hill. • Ernst and Peter Neufert 5BWILEY-BLACKWELL A John Wiley & Sons, Ltd., Publication	yes
Websites	https://www.archdaily.com/	

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

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Name and Signature of head of Department
Asst.Prof.Dr Raed Abdullah Hasan

MODULE DESCRIPTION
(ARCHITECTURAL HISTORY I)

Module Information					
Module Title	**Architectural History II**			**Module Delivery**	
Module Type	**Core Learning activity**			☐ **Theory** ☒ **Lecture** ☐ **Lab** ☐ **Tutorial** ☐**Practical** ☐ **Seminar**	
Module Code	**AE222**				
ECTS Credits	3				
SWL (hr/sem)	**75**				
Module Level	2		**Semester of Delivery**	4	
Administering Department	Architecture		**College**	**Architectural Engineering Center**	
Module Leader	Rauoof Abd al razaq		**e-mail**		
Module Leader's Acad. Title	Lecturer		**Module Leader's Qualification**	M.Sc.	
Module Tutor			**e-mail**	E-mail	
Peer Reviewer Name	Name		**e-mail**	E-mail	
Scientific Committee Approval Date	01/06/2024		**Version Number**	1.0	

Relation with other Modules			
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents	
Module Objectives	6- The aim of the lesson is to identify the nature of the emergence of the first civilizations, their buildings, and their settlement in the Mesopotamia Valley, and to trace the development of architecture in them until the Islamic conquests that were affected by it, as the difference in thought and belief was shown. 7- Preparing an architectural student with the ability to distinguish between architectural civilizations 8- Giving the ability to know the philosophical and theoretical ideas of architectural design formations 9- Learn about the most important historical periods of civilizations 10- Learn about the distinctive formations and architectural details of ancient civilizations
Module Learning Outcomes	Cognitive goals (knowledge and understanding) 13- Introducing what architecture is and the history of architecture 14- Learn the civilization of Mesopotamia in terms of architecture and philosophical ideas for architectural formations 15- Learn about the architectural formations and how they relate to the different cultures of ancient civilizations 16- Identify the architectural details within each historical period of a group of time periods of the Mesopotamian civilization and its reflection in architecture 17- Learn about the principles of architecture in urban and Arab caravan cities and study the most important components and details architecture that characterized each time period Skill objectives (subject specific skills) 18- Preparing reports by students in which projects of distinguished architects are selected to introduce students to how to deal with philosophical ideas and theoretical and design trends. 19- The ability of students to interact with each other within student groups (joint interaction) Emotional and value goals (thinking skills) 20- Enabling students to learn about the history of architecture in order to reach a clear perception of the most important architectural formations and details to increase awareness and systematic study education 21- The ability to distinguish the creative design ideas of historical civilizations by presenting and benefiting from the configurations of distinguished architectural buildings. 22- Enable students to solve their design problems General and transferable skills (other skills related to employability and personal development). 23- The ability to form architectural forms based on design principles 24- Choosing distinct architectural formations of ancient historical civilizations to

	present and discuss with students. 16- Developing his personality and being an educational and educational process at the same time 17- The ability to work with others with discipline within a single work team 18- A full awareness of the ethical and practical responsibility for team and individual action.
Indicative Contents	Methods of teaching and learning 6- Explanation of the lectures 7- How to show examples 8- The way to ask questions 9- test method 10- Self-learning method Evaluation modalities Theoretical study: 1- Students' response through actual participation in the lecture through interaction, asking questions and discussing the answer 2- Questions and discussion of the answer. 18- Evaluation through weekly tests. 19- Evaluation through exams, contributions, participation and attendance 20- Scientific tests 21- Reports and studies monitoring and tracking student progress: 22- Student activity and participation during the lecture. 23- The extent of the student's interest in providing the practical studies that are required of him. 24- The student's rush to attend the lecture despite the existence of various kinds of difficulties.

Learning and Teaching Strategies	
Strategies	The academic program includes two aspects, one of which complements the other (theoretical side) of the course in the form of lectures, (the practical side) represents the complementary side of the course and is represented by preparing reports for distinct architectural projects within the time periods that are studied within the prescribed curriculum and explaining philosophical ideas, formations and architectural design methods. Students are taught the design method according to the principles in terms of studying the architectural formations and details During the academic program, the technology provided by the tools (such as the smart board, computer, etc.) is used to discuss and present the projects selected by the students. Evaluation methods: Evaluation through monthly and quarterly exams, contributions, participation and attendance, in addition to evaluating reports and studies.

Student Workload (SWL) for 15 weeks			
Structured SWL h/sem)	63	**Structured SWL (h/w)**	4.2
Unstructured SWL (h/sem)	12	**Unstructured SWL (h/w)**	0.8
Total SWL (h/sem)	**75**		

Module Evaluation					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	10	10% (10)	Continuous	All
	Assignments	2	10% (10)	5 and 10	All
	Report	1	10% (10)	14	All
	Seminar	1	10% (10)	15	All
Summative assessment	**Midterm Exam**	2hr	10% (10)	12	All
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	An introductory lecture to explain the nature of the material and its components, and the sources and reports required from students, in addition to explaining how to benefit from the material in architectural design
Week 2	Settlement theory and the stone ages
Week 3	Metal Stone Age
Week 4	The development the Warka and the proto-literate (proto-historic)
Week 5	Early Dynastic period
Week 6	The Sumerian era and the Akkadian era
Week 7	Third Ur dynasty
Week 8	Old Babylonian and Kassite era
Week 9	Assyrian era
Week 10	The last Babylonian period, the Chaldean state
Week 11	Parthian era, Seleucid era, Sasanian era
Week 12	**Mid-term Exam.**
Week 13	Al-hadier city
Week 14	The Arab caravan cities
Week 15	**Seminars**
Week 16	**Preparatory week before the final Exam**

Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	History of Architecture, Sir Banister Fletcher tcher تاريخ العراق القديم، طه باقر تاريخ فن العمارة العراقية في مختلف العصور، شريف يوسف	Yes
Recommended Texts		
Websites		

Grading Scheme				
Group	**Grade**	التقدير	**Marks %**	**Definition**
Success Group (50 - 100)	**A -** Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
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Fail Group (0 – 49)	**FX** – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
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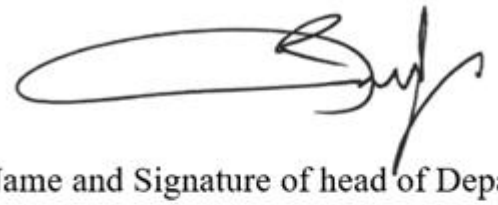


Name and Signature of head of Department
Asst.Prof.Dr Raed Abdullah Hasan

MODULE Description OF **FREE HAND III**

Module Information					
Module Title	**Free hand III**			**Module Delivery**	
Module Type	**Support**			☐ **Theory** ☒ **Lecture** ☒ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**AE223**				
ECTS Credits	**4**				
SWL (hr/sem)	**100**				
Module Level	2		**Semester of Delivery**	3	
Administering Department	AE		**College**	**Architectural Engineering Center**	
Module Leader	Zakaria Hashim Ahmad		**e-mail**	Zakria.ha.ah@uosamarra.edu.iq	
Module Leader's Acad. Title	lecture		**Module Leader's Qualification**		
Module Tutor	Name (if available)		**e-mail**	E-mail	
Peer Reviewer Name	Name		**e-mail**	E-mail	
Scientific Committee Approval Date	01/06/2024		**Version Number**	1.0	

Relation with other Modules			
Prerequisite module	**Free hand I ARE 113**	**Semester**	1
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Content	
Module Objectives	Module Overview: Freehand2 drawing is the artistic part of architectural drawing, this module is designed to provide second-year Architecture students with a comprehensive understanding of Free hand coloring techniques and principles. This module emphasizes skills, focusing on traditional free hand coloring methods and drawing tools. Students will learn how to create accurate and detailed coloring drawings by hand, gaining a strong foundation in free hand practices commonly used in the field of Architecture. watercolor is a water-soluble paint made of pigments suspended in a water-based solution. This flexible and non-toxic coloring medium works well in a wide range of arts and Architecture projects. Module Objectives: 13. To learn the most important techniques used in the advance of freehand drawing (such as water color). 14. To introduce students to the fundamental principles and concepts of Free hand coloring and its significance in the field of Architectural design. 15. To exercise Students to realize the exact details in the physical reality and being aware of the rates and movement, shadow, light by color. 16. To enable students to interpret and create accurate and detailed free hand coloring drawings, including, nature, furniture, and Architectural details. 17. To teach students appropriate scaling and dimensioning techniques to accurately represent objects and structures in free hand drawings. 18. To familiarize students with free hand coloring technique. 19. To enhance students' communication and presentation skills through the creation of clear and concise free hand coloring drawings. 20. To instill in students an understanding of industry-standard drawing standards and practices to ensure compliance with engineering regulations and requirements. 21. To foster effective collaboration and teamwork skills through group projects involving free hand coloring drawing exercises. 22. To provide students with opportunities to apply theoretical knowledge and practical skills to solve real-world free hand drawing challenges. 23. To prepare students for further free hand with oil color study and practical techniques 24. Enable the student to understand the vocabulary that will be used in other lessons such as design and architectural drawing.

Module Learning Outcomes	Module Learning Outcomes: Upon successful completion of this module, students will be able to: 25. Understand the fundamental principles of free hand coloring drawing and its importance in Architecture design. 26. Demonstrate proficiency in using tools and equipment for manual Free hand drawing. 27. Demonstrate effective communication and presentation skills through the creation of clear and concise free hand drawings. 28. Collaborate effectively with peers in group projects involving Free hand coloring drawing exercises. 29. Freehand Drawing is organized around the concepts for drawing from perception. 30. It is based on working from still life, architecture, landscape, and photo collages. 31. The objectives are to examine the various components of drawing: line, value, texture, & composition.
Indicative Contents	Indicative Contents of the Module: 32. Introduction to coloring: a Importance of coloring in Architecture b Introduction to collecting color. 33. color Types: a Water color b Gouache color c Acrylic color d Chalk color Semester 2: 34. coloring tools and equipment. 35. Water color Types a. Watercolor Pans. b. Watercolor Tubes. c. Liquid Watercolor Paints. 36. Watercolor Palette Types. 37. Watercolor Brushes types.

Learning and Teaching Strategies	
Strategies	Learning and Teaching Strategies: 4. Lectures: The module will include lectures delivered by the instructor to introduce and explain key concepts, techniques, and principles of Free hand. Lectures will provide theoretical foundations and guidance for the practical application of free hand skills. 5. Demonstrations: The instructor will demonstrate various manual drawing techniques and methods, showcasing proper use of drafting tools and equipment. Students will observe and learn through visual demonstrations, allowing them to understand and replicate the techniques in their own work. 6. Practical Sessions: Students will participate in practical sessions where they will actively engage in Free hand exercises. These sessions will provide hands-on experience with manual drafting tools and allow students to practice and develop their drawing skills under the guidance of the instructor.

	7. Group Work: Collaborative group projects will be assigned to promote teamwork and communication skills. Students will work together on free hand assignments, allowing them to share ideas . 8. Critique and Feedback: Regular critique sessions will be conducted, where students will present their drawings to the instructor and peers for evaluation and feedback. Constructive feedback will help students identify areas for improvement and refine their drawing techniques . 9. Tutorials and Workshops: Additional tutorial sessions and workshops may be provided to address specific challenges or topics that require further clarification. These sessions will allow students to seek assistance, ask questions, and receive one-on-one guidance from the instructor . 10. Independent Study: Students will be encouraged to engage in independent study and practice outside of class. This may involve reviewing lecture notes, conducting research on free hand drawing, and practicing drawing exercises to reinforce learning . 11. Visual Resources and References: Visual resources, such as examples of drawing, textbooks, and online references, will be provided to supplement learning. These resources will aid students in understanding drawing conventions, standards, and best practices . 12. Portfolio Development: Students will be encouraged to maintain a portfolio of their free hand drawings throughout the module. This portfolio will showcase their progress, development, and the range of skills they have acquired . 13. Field Visits and Guest Speakers: Opportunities may be provided for students to visit sites or attend guest lectures by professional artist. These experiences will expose students to real-world applications of free hand . 14. Assessment and Feedback: Assessment methods such as practical Free hand exercises, group projects, and examinations will be used to evaluate students' understanding and application of free hand principles. Constructive feedback will be provided to support students' learning and growth.

Student Workload (SWL) For 15 weeks			
Structured SWL (h/sem)	63	**Structured SWL (h/w)**	4.2
Unstructured SWL (h/sem)	37	**Unstructured SWL (h/w)**	2.47
Total SWL (h/sem)	**100**		

Module Evaluation					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	2	20% (20)	5 and 10	LO #1, #2, #4 and #6
	Assignments	2	15% (15)	Continuous	LO #2- #7
	Projects / Lab.	1	5% (5)	Continuous	LO #8
	Report				
Summative assessment	**Midterm Exam**	2hr	10% (10)	7	LO #1 - #7
	Final Exam	3hr	50% (50)	16	LO #1 - #7
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
Week 1-2	- Introduction to free hand coloring - Importance of Free hand coloring in Architectural design Overview of coloring tools and equipment - Introduction to collecting color.
Week 3-4	- color Types: *a.* Water color *b.* Gouache color *c.* Acrylic color *d.* Chalk color
Weeks 5-6	- coloring tools and equipment - Watercolor Palette Types. - Watercolor Brushes types
Weeks 7-8	- Water color Types - Watercolor Pans. - Watercolor Tubes. - Liquid Watercolor Paints
Week 9	**Preparatory week before the final Exam**
Weeks 10	- wet or dry. - wet on wet.
Weeks 11-12	- Drawing water color with mask. - Water color washes
Weeks 13	- Drawing water color with painter touch
Weeks 14-15	- Collaborative Drawing Projects - Group projects. - Teamwork and collaboration skills in water color
Week 16	**Preparatory week before the final Exam**

Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	1. "Water color Techniques " by Emma Forge - This comprehensive textbook covers the principles and techniques of water color, and many ways of coloring for Architecture. 2. "Artist Drawing techniques" by Saffron Stocker - This book provides a practical approach to coloring many subject one of them Architecture.	No
Recommended Texts	Water color Lessons: How to Paint and Unwind in 20 Tutorials (How to paint with water colors for beginners) Emma Lefebvre	No
Websites	https://www.watercoloronline.com/	

Grading Scheme				
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.

Name and Signature of head of Department
Asst.Prof.Dr Raed Abdullah Hasan

MODULE DESCRIPTION OF **DIGITAL DESIGN AND PRESENTATION – REVIT**

Module Information معلومات المادة الدراسية					
Module Title	**Digital Design and Presentation – Revit**			**Module Delivery**	
Module Type	S			☐ **Theory** ☒ **Lecture** ☒ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	AE 224				
ECTS Credits	3				
SWL (hr/sem)	**75**				
Module Level	2		**Semester of Delivery**	4	
Administering Department	architecture		**College**	**Architectural Engineering Center**	
Module Leader	Dr. Raed Abdullah Hasan		**e-mail**	Raed_hasan@uosamarra.edu.iq	
Module Leader's Acad. Title			**Module Leader's Qualification**		
Module Tutor	Maria Salim Dawood		**e-mail**	E-mail:	
Peer Reviewer Name	Name		**e-mail**	E-mail	
Scientific Committee Approval Date	01/06/2024		**Version Number**	1.0	

Relation with other Modules			
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents	
Module Objectives	Improved quality of construction drawings (CDs). 1. Reduced time to prepare the sheets. 2. Quantities and shared properties of materials are easily extracted for cost estimating. 3. Learning coordination between other disciplines.
Module Learning Outcomes	1. Learning the student concept of a BIM (Building Information Modeling). 2. Improved the ability to generate and manage building data during its life cycle. Increasing the Knowledge about are Analytical properties of materials used in the buildings. 3. Developing the ability to use universal families (intelligent objects: A 3D BIM Model with objects with schedule and time constraint data added to them) or manufacturing them inside the program. 4. Built efficiency to create phases for the building to estimate the time for implementing the project. 5. Learning What parameters are and creating your first parameter and testing it.
Indicative Contents	1. Revit the user interface. 2. Revit Fundamentals. Modify tools. 3. Modeling essentials. 4. Core and Shell. 5. Creating walls. 6. Circulation elements.

Learning and Teaching Strategies	
Strategies	The unit depends on the concept of active learning or effective learning, which depends on the problem-solving strategy by involving the learners in doing things that force them to think about what they are learning, by transforming the goal of the lesson into a specific problem that requires discovery in the first place, and then understanding and analyzing it and finding the appropriate solution to it, Thus, the learner acquires new experiences and skills.

Student Workload (SWL) For 15 weeks			
Structured SWL (h/sem)	48	**Structured SWL (h/w)**	3.2
Unstructured SWL (h/sem)	27	**Unstructured SWL (h/w)**	1.8
Total SWL (h/sem)	100		

Module Evaluation					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	2	10% (10)	3 and 13	LO #1, #2 and #11, #14
	Assignments	2	10% (10)	2 and 12	LO #2, #5
	Projects	1	10% (10)	Continuous	All
	Report	1	10% (10)	13	LO #6
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)	
	Material Covered
Week 1,2	Introduction to BIM & Revit user interface Introduction to BIM. • Install Revit Program. • Overview of Revit user interface. • Revit fundamental.
Week 3,4	Modify tools • Selection setting • Move, Copy, Rotation, Array, Scale, Mirror, Copy, Split, Match, Create Similarly, Pick new host, Trim/ extend, Offset, Pin/ unpin, Cut/ join & Measure.
	• Paint.
Week 5,6	Modeling essentials • View range. • Datum elements • Scope box • Work plane • Snaps
Week 7,8,9	Core and shell • Walls • Doors & windows • Compound structures
Week 10,11,12	Creating walls • Basic walls • Curtain walls • Stacked walls
Week 13,14,15	Circulation element • Stairs • Ramps • Railings
Week 16	the final Exam

Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	The Complete Beginner's Guide to Autodesk Revit Architecture	No
Websites	https://help.autodesk.com/view/RVT	

Grading Scheme				
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.

Name and Signature of head of Department

Asst.Prof.Dr Raed Abdullah Hasan

MODULE DESCRIPTION OF ENGINEERING SURVEYING

Module Information					
Module Title	**Engineering surveying**			**Module Delivery**	
Module Type	**Support**			☐ **Theory** ☒ **Lecture** ☒ **Lab** ☐ **Tutorial `** ☒ **Practical** ☐ **Seminar**	
Module Code	**AE225**				
ECTS Credits	**3**				
SWL (hr/sem)	**75**				
Module Level		2	**Semester of Delivery**		4
Administering Department		AE	**College**	**Architectural Engineering Center**	
Module Leader	Safaa Yasin Hamd		**e-mail**	Safaa.yassin@uosamarra.edu.iq	
Module Leader's Acad. Title		Professor	**Module Leader's Qualification**		Ph.D.
Module Tutor			**e-mail**	E-mail	
Peer Reviewer Name		Name	**e-mail**	E-mail	
Scientific Committee Approval Date		01/06/2024	**Version Number**		1.0

Relation with other Modules			
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents	
Module Objectives	1. Finding the ability to deal and understand with survey work in practical locations. 2. Identify 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. 4. to introduce and develop the basic understanding of the principles of engineering surveying
Module Learning Outcomes	1. be familiar with common survey instruments and possess some technical skills. 2. have a basic understanding of quantity and computation, 3. have a basic understanding of the setting out in Civil Engineering setting out by coordinates verticality. 4. have a basic understanding of the theory of measurement errors and concepts of adjustment. 5. have a basic understanding of the GNSS systems. 6. have a basic understanding of the Photogrammetry and remote measurement. 7. have a basic understanding of the GIS, digital mapping and surface models.
Indicative Contents	<u>Part A - Concept of Surveying</u> Surveying work - the importance of Surveying in architecture - elementary units of measurement and angle measurement systems (degree, grad, Radian). Measurement of horizontal distances indirectly possible vision and measurement is not possible as well as, scale drawing, enlarging and reducing maps. [7 hrs.] Calculating the area, whether it is regular or not, using Simpson's rule and the Trapezoid rule. Cases of measuring the distance using the tape measure if the ground is flat or sloping and has a regular slope, errors in measuring distances with the tape and correcting them, with notes on the accuracy of the tape measure. [7 hrs.] Revision problem classes [2 hrs.] <u>Part B - Angles and Leveling</u> Angles and directions, types of angles (horizontal and vertical), horizontal angles and directions, quadratic coordinates, calculating coordinates, inverse coordinates.
	Leveling, height and level, types of leveling, devices used in the leveling process, components of the leveling device and its installation, taking readings for levels. [7hrs] GPS, signature system elements and its currency, contour maps and their characteristics, steps to prepare a contour map, contour line specifications, horizontal and vertical arcs, arc radius calculation and pI pT. [7 hrs.]

Learning and Teaching Strategies	
Strategies	The main strategy that is adopted in this unit is to encourage students to participate in exercises while improving constructive critical thinking skills and expanding them at the same time while correcting misconceptions. This is done through explanation and the practical side through simple experiments that will develop the concept of space engineering, which includes activities What students do that interests them.

Student Workload (SWL) For 15 weeks			
Structured SWL (h/sem)	48	**Structured SWL (h/w)**	3.2
Unstructured SWL (h/sem)	27	**Unstructured SWL (h/w)**	1.8
Total SWL (h/sem)	150		

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

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Introduction - Definition of Engineering surveying 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 anomalies, and irregular areas, and how to calculate those areas through applied examples.
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	Practical application of the concepts explained in the previous weeks.
Week 6	How to locate a point with geographical and cartesian 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 7	Mid-term Exam.

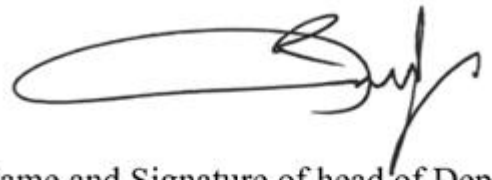
Week 8	Defining the concepts of a straight line and its extensions, with the geometric connection between the point and the line, finding the coordinates of the unknown points by knowing the coordinates of one point, relying on a default reference in the unknown points.
Week 9	Calculating coordinates based on distance and direction and making binding corrections to avoid. errors resulting from field observations.
Week 10	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 11	Calculating coordinates based on distance and direction and making binding corrections to avoid errors resulting from field observations.
Week 12	Learn about the most important errors resulting from field measurements and how to get rid of them and reduce their effects.
Week 13	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 14	Definition of elevations and how to represent them, types of contour lines, methods of determining longitudinal and transverse sections, and determining the nature of the site and the specificity of the work it requires.
Week 15	The concepts of models in (CAD & 3D) systems on the computer and the method of calculating them by ready-made programs, addressing the concepts of (TIN & GIS & GPS) and their relationship to the urban aspect of the city.
Week 16	**Preparatory week before the final Exam**

Delivery Plan (Weekly Lab. Syllabus)	
	Material Covered
Week 1	Lab 1: Measure the horizontal distance using a tape measure
Week 2	Lab 2: Setting of constructions
Week 3	Lab 3: Measure area from the map
Week 4	Lab 4: Establish a perpendicular line perpendicular to a straight line from a point on it
Week 5	Lab 5: Measure the horizontal distance across the beams using a tape measure
Week 6	Lab 6: Use the leveling device to measure levels Setting of constructions
Week 7	Lab 7: Direct differential leveling

Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	Uren, J and B Price 2010 Surveying for Engineers UK, PALGRAVE MACMILLAN	No
Recommended Texts	Ghilani, C D and P R WOLF 2014 Elementary Surveying An Introduction to Geomatics New Jersey, PEARSON	Yes
Websites	https://www.coursera.org/courses?query=civil%20engineering	

Grading Scheme				
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.



Name and Signature of head of Department

Asst.Prof.Dr Raed Abdullah Hasan

Module Information					
Module Title	Computer II			**Module Delivery**	
Module Type	UOS-2304			☒**Theory**	
Module Code	Basic			☒**Lecture**	
ECTS Credits	3			**Lab** ☐	
SWL (hr/sem)	75			☐**Tutorial**	
				☐**Practical**	
				☒ **Seminar**	
Module Level	2	**Semester of Delivery**	1		
Administering Department	AE	**College**	Archtectural Engineering Center		
Module Leader	Rauoof Abd al razaq	**e-mail**			
Module Leader's Acad. Title	Lecturer	**Module Leader's Qualification**	Master of Mechanical Engineering		
Module Tutor	None	**e-mail**	None		
Peer Reviewer Name	None	**e-mail**	None		
Scientific Committee Approval Date	06/01/2023	**Version Number**	1.0		

Relation with other Modules			
Prerequisite module	None	Semester	-
Co-requisites module	None	Semester	-

Module Aims, Learning Outcomes and Indicative Contents	
Module Aims	1- The student will gain an understanding of the basic principles, structure, grammar, and uses of the C#.NET programming language. 2- Develop the ability and skill to write and compile C#.NET programs, including an understanding of the use of variables, data types, and operators. 3- Learn how to use control structures, including if-else statements, loops (while, for, and do-while), and switch statements to control program flow. 4- Building interfaces and windows and linking them to the programming code.
Module Learning Outcomes	After completing the course, students will be able to: 1.Develop custom desktop applications for civil engineering tasks, such as structural analysis, design, and project management. Engineers can create tools tailored to specific needs, such as calculating loads, designing structural elements, or automating repetitive tasks. 2. Analyze engineering data and visualize results. With libraries like Charting for .NET, engineers can create detailed graphs and charts that help in the interpretation of analysis results or the presentation of project data.
Indicative Contents	1. Introduction to computer programming 2. Introduction to C# Programming 3. C# Standard Library 4. Control flow in C# 5. Memory Management in C# 6. C# Application Development

Learning and Teaching Strategies	
Strategies	Conceptual Understanding: Practical Practice Code Review and Feedback Problem Solving Exercises

Student Workload (SWL)			
Structured SWL (h/sem)	33	Structured SWL (h/w) Regular weekly student load	2.2
Unstructured SWL (h/sem)	42	Unstructured SWL (h/w) Irregular student load per week	2.8
Total SWL (h/sem)	75		

Module Evaluation					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	**2**	10% (10)	5and10	
	Assignments	**2**	10% (10)	2and12	
	Projects /Lab.	**1**	10% (10)	continuous	
	Report	**1**	10% (10)	13	
Summative assessment	**Midterm Exam**	**2hr**	10% (10)	7	
	Final Exam	**3 hours**	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Introduction to computer program and programming languages
Week 2	Other components, helping to organize code and .avoid name conflicts
Week 3	.Variable declared within a class to store data
Week 4	C# Operators (Arithmetic operators, Bitwise operators, logical operators, and Relational (operators
Week 5	Mechanism to read, write, or compute the values of private fields within a class using get .and set accesses
Week 6	A basic building block in C#.NET that defines a data structure, encapsulating data and behavior
Week 7	.Mid-term Exam

Week 8	.Function and procedure defined within a class that performs a specific action
Week 9	.Methods to call an object of a class
Week 10	.Heredity and behavior are of another class
Week 11	.Define a set of methods and properties that a class must implement
Week 12	civil engineering application in C# project
Week 13	civil engineering application in C# project
Week 14	civil engineering application in C# project
Week 15	civil engineering application in C# project
Week 16	Final Exam

Delivery Plan (Weekly Lab. Syllabus)	
	Material Covered
Week 1	Visual C#.NET Window.
Week 2	Dealing with interfaces
Week 3	Main Menus
Week 4	Toolbars
Week 5	C# Libraries.
Week 6	C# User Input and output and Operators
Week 7	Mid-term Exam.
Week 8	If condition, Switch condition and Break and Continue.
Week 9	For loop, While loop and Do-while loop.
Week 10	Break and Continue statements.
Week 11	Solving exercises related to civil engineering

Week 12	Solving exercises related to civil engineering
Week13	Solving exercises related to civil engineering
Week 14	Solving exercises related to civil engineering
Week 15	Final Exam.

Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	Pro C# 10 with .NET 6: Foundational Principles and Practices in Programming.	No
Website	https://codefinity.com/courses/v2/07f06374-cc72-4ab1-87c6-393472e2175d?utm_source=google&utm_medium=cpc&utm_campaign=20955067105&utm_content=161128867347&utm_term=c%23&gad_source=1&gclid=Cj0KCQjwzva1BhD3ARIsADQuPnUCzyr8X83fc7V3zR0Eu3-DbODtDue6P4EaLUC7a7SRriye-fXKN2caAuc4EALw_wcB.	

Grading Scheme				
Group	**Grade**	التقدير	**Marks %**	**Definition**
Success Group (50 - 100)	**A -** Excellent	امتاز	90 - 100	Outstanding Performance
	B - Very Good	جد جدا	80 - 89	Above average with some errors
	C - Good	جد	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.

Name and Signature of head of Department

Asst.Prof.Dr Raed Abdullah Hasan

MODULE DESCRIPTION FORM

Module Information					
Module Title	**Arabic II**			**Module Delivery**	
Module Type	**Basic**			☒**theory** ☒**a lecture** ☒**laboratory** ☐**Tutorial** ☐**practical** ☐**seminar**	
Module Code	**UOE-2305**				
ECTS Credits	**2**				
SWL (hr/sem)	**50**				
Module Level		1	**Semester of Delivery**		1
Administering Department		AE	**college**	Archtectural Engineering Center	
Module Leader	Mohanad Abdul Jabbar Hassan		**Email**	mohanad.abduljabbar@uosamarra.edu.iq	
Module Leader's Acad. Title		Lecture	**Module Leader's Qualification**		Ph.D in Arabic Language
Module Tutor	None		**Email**	None	
Peer Reviewer Name		None	**Email**	None	
Scientific Committee Approval Date		06/17/2023	**Version Number**	1.0	

Relation with other Modules			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents	
Module Aims	Course objectives .Enabling students to understand the eloquence of the Holy Quran and to appreciate the aesthetics of its language.. Training students to use punctuation marks between sentences correctly. To broaden the students' literary horizons of ideas, meanings and moral values.. Teaching students how to write correctly according to the basics of spelling, which enables them to write words correctly..
Module Learning Outcomes	- Cognitive objectives 1- Knowing the basics of spelling in the Arabic language. 2- Getting to know world literature and their influence on Arabic literature. 3- Studying some Quranic verses to explore the linguistic and rhetorical aspects therein. B - Course specific skill objectives. 1- Writing correctly. 2- The ability to extract common errors in daily use. 3- The ability to identify the areas of Quranic eloquence and to know its effect on understanding the meanings.
Indicative Contents	Guiding Contents Arabic language among the languages of the world, the emergence of spoken and written language, the grammatical system, Quranic rhetoric, the morphological system, the written system, numbers in the Arabic language, Arabic and Arabization, world literature and Orientalism.

Learning and Teaching Strategies	
Strategies	The main strategy that will be adopted in presenting this unit: It is to encourage students to engage in exercises while simultaneously honing and expanding their critical thinking skills. This will be achieved through interactive classes and tutorials and by considering the type of topics some of which include sampling activities that interest students."

Student Workload (SWL)			
SWL Organization (hr/sem)	33	SWL organization (h/w) Regular weekly student load	2
Unstructured SWL (hr/sem)	17	Unstructured SWL (h/w) Irregular student load per week	1.13
Total SWL (hr/sem)	50		

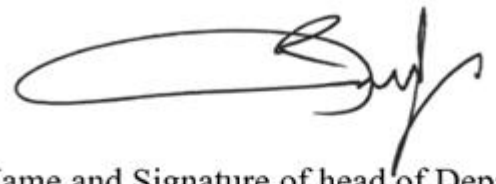
Module Evaluation					
		Time/number	**Weight (marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Tests**	2	10% (10)	5 and 10	LO #1, #2, #10, and #11
	Verbal assignments	1	10% (10)	16	everyone
	laboratory.		10% (10)		everyone
	a report	15	10% (10)	continuous	everyone
Summative assessment	**Midterm Exam**	2 hours	10% (10)	continuous	#1 - #7 Goal
	Final Exam	3 hours	50% (50)	16	All
Overall Rating			100% (100 marks)		

Delivery Plan (Weekly Syllabus)	
	Covered Materials
Week 1	Arabic language, definition, origin, function
Week 2	Arabic language and the beginning of blogging
Week 3	Quranic eloquence and Surat Al-Fatihah
Week 4	Basic introduction to grammar
Week 5	Number in Arabic
Week 6	Writing system, ta Marbut and ta open
Week 7	Diminutive morphological system
Week 8	Midterm Exam
Week 9	For the written system A Hamzat al-Wasl and Hamzat al-Qat`
Week 10	Quranic eloquence and Surat Al-Kahf
Week 11	Synonyms in Arabic
Week 12	Poetic purposes in Arabic literature
Week 13	Writing system punctuation marks
Week 14	Mention and deletion in language
Week 15	Final exam

Learning and Teaching Resources		
	Text	**Available in the library?**
Required texts	The book is by Sibawayh, Secrets of Rhetoric by Al-Jurjani, Spelling and Punctuation in Arabic Writing by Abdul-Aleem Ibrahim.	Yes
Recommended Texts	The book is by Sibawayh, Secrets of Rhetoric by Al-Jurjani, Spelling and Punctuation in Arabic Writing by Abdul-Aleem Ibrahim.	Yes
Websites		

Grading Scheme				
Group	**Grade**	التقدير	**Marks %**	**Definition**
Success Group (50 - 100)	**A -** Excellent	امتاز	90 - 100	Outstanding Performance
	B - Very Good	جد جدا	80 - 89	Above average with some errors
	C - Good	جد	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.



Name and Signature of head of Department

Asst.Prof.Dr Raed Abdullah Hasan

MODULE DESCRIPTION OF **ENGLISH LANGUAGE II**

Module Information					
Module Title	**English Language II**			**Module Delivery**	
Module Type	**B**			☐ **Theory** ☒ **Lecture** ☐ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	UOS- 2306				
ECTS Credits	**2**				
SWL (hr/sem)	**50**				
Module Level	2		**Semester of Delivery**	4	
Administering Department	Architecture		**College**	**CENGS**	
Module Leader	Ghassan Dhahid		**e-mail**		
Module Leader's Acad. Title	Assistance lecturer		**Module Leader's Qualification**	MSc.	
Module Tutor			**e-mail**		
Peer Reviewer Name			**e-mail**	E-mail	
Scientific Committee Approval Date	01/06/2024		**Version Number**	1.0	

Relation with other Modules			
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents	
Module Objectives **أهداف المادة الدراسية**	Module Objectives: 1. Develop oral fluency and accuracy in English conversation. 2. Expand vocabulary and improve listening comprehension skills. 3. Use grammatical structures effectively in spoken and written English. 4. Enhance reading and writing skills for effective communication.
Module Learning Outcomes	Important: Write at least 6 Learning Outcomes, better to be equal to the number of study weeks. Six learning outcomes of the module that combine multiple ABET components: Learning Outcomes for English Language Module: 1. Develop effective communication skills in English (ABET Component: A, C, F) - Demonstrate proficiency in speaking and listening, conveying ideas accurately and confidently. Use appropriate grammar and vocabulary to express thoughts and opinions clearly. 2. Expand vocabulary and language fluency in various topics (ABET Component: B, F) - Acquire a wide range of vocabulary related to different themes, such as daily life, travel, and media. Enhance language fluency through engaging in conversations and discussions on diverse subjects. 3. Apply grammar rules and structures accurately (ABET Component: C, D) - Utilize proper grammar, including verb tenses, subject-verb agreement, and sentence structure. Demonstrate understanding of grammatical concepts in both spoken and written English. 4. Develop reading and comprehension skills (ABET Component: E) - Read and comprehend a variety of texts, such as articles, short stories, and dialogues. Extract key information, infer meaning, and critically analyze written material. 5. Enhance writing skills in English (ABET Component: D, G) - Produce well-structured and coherent written compositions. Apply correct grammar, vocabulary, and punctuation to express ideas effectively. 6. Engage in cross-cultural communication (ABET Component: A, H) - Understand and appreciate cultural differences in communication styles. - Demonstrate sensitivity and adaptability when interacting with individuals from different cultural backgrounds.
Indicative Contents	Indicative content includes the following. Part 1: Language Skills In this module, we will explore the English language through various topics. We will begin by covering basic introductions, greetings, and personal information. Moving forward, we will discuss hobbies, daily routines, food and drink, health and fitness, travel and transport. Additionally, we will learn about media and entertainment, jobs

	and careers, shopping, holidays and celebrations. Throughout the module, we will focus on building vocabulary and practicing essential language skills. Part 2: Communication skills Continuing from Part 1, this module will further develop our language skills. We will delve into topics such as environmental issues, emphasizing the importance of sustainability. We will also explore advanced grammar concepts, including present perfect, past simple, and modal verbs. Additionally, we will enhance our communication skills through engaging activities, discussions, and real-life scenarios. This module aims to provide a comprehensive understanding of English language usage and proficiency.

Learning and Teaching Strategies	
Strategies	The main strategy that is adopted in this unit is to encourage students to participate in exercises while improving constructive critical thinking skills and expanding them at the same time while correcting misconceptions. This is done through explanation and the practical side through simple experiments that will develop the concept of space engineering, which includes activities What students do that interests them.

Student Workload (SWL) for 15 weeks			
Structured SWL (h/sem)	33	**Structured SWL (h/w)**	2
Unstructured SWL (h/sem)	17	**Unstructured SWL (h/w)**	1.3
Total SWL (h/sem)	**50**		

Module Evaluation					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
	Quizzes	2	10% (10)	5 and 12	LO #1, #2 and #4
Formative assessment	**Assignments**	3	10% (10)	4,9 and 12	LO #3, #4
	Projects / Lab.	1	10% (10)	13	All
	Report	2	10% (10)	8&14	LO #5, #3and #6
Summative assessment	**Midterm Exam**	2hr	10% (10)	8	All
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
	Material Covered
Week 1	Greetings and Introductions: greetings, introductions, names, countries, languages
Week 2	Hobbies, leisure, sports, pastimes; present simple and frequency adverbs.
Week 3	Rooms, furniture, daily routines; present continuous, prepositions of place.
Week 4	Food and drink vocabulary, likes and dislikes; countable and uncountable nouns, some/any.
Week 5	Health-related vocabulary, giving advice; should/shouldn't, imperative sentences.
Week 6	Travel vocabulary, types of transport; present perfect, past simple.
Week 7	Daily activities, time expressions; adverbs of frequency, present simple vs. present continuous.
Week 8	Mid exam
Week 9	Types of media, leisure activities; comparative and superlative adjectives.
Week 10	Professions, job skills; future plans and intentions, will/won't.
Week 11	Shopping vocabulary, describing products; countable and uncountable nouns, articles.
Week 12	Holiday and celebration vocabulary, past events; past simple vs. present perfect.
Week 13	Jobs and Careers: professions, job interviews, qualifications, work experience
Week 14	Applying language skills through interactive activities, discussions, and real-life scenarios.
Week 15	Environmental issues, actions to protect the environment; modal verbs: can/could/may/might.
Week 16	**Preparatory week before the final Exam**

Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	The New Headway Pre-Intermediate fourth edition by Liz & John Soars, Oxford University Press,2011	Yes
Recommended Texts	English for builders and architects, R Rakhimova, Nova 2009	No
Websites	https://www.youtube.com/watch?v=LB8zpf_MWgw	

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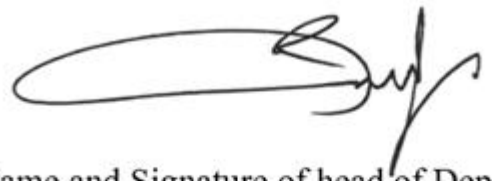

Name and Signature of head of Department

Asst.Prof.Dr Raed Abdullah Hasan