Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department

Academic Program and Course Description Guide

2024

Academic Program Description Form

University Name: University of Diyala

Faculty/Institute: Faculty of Engineering

Scientific Department: Architecture Engineering

Academic or Professional Program Name: Bachelor of Architectural Engineering

Final Certificate Name: Bachelor of Science in Architectural Engineering

Academic System: Yearly

Description Preparation Date: 10 October, 2024

File Completion Date: 10 October, 2024

Signature:

Head of Department Name:

Dr. Samaan Majeed Yas

Date: 10 October, 2024

Signature:

Scientific Associate Name:

Assistant Professor Dr. Jabbar Qasim Jabbar

Date: 10 October, 2024

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Assistant Professor Dr. Salah Nouri Farhan

Date: 10 October, 2024

Signature:

Approval of the Dean

Professor Dr. Anees Abdullah Kazem

1. Program Vision

The Department of Architecture Engineering seeks to prepare graduates in the field of architectural engineering to work in government departments and the private sector, benefit from specialization in the practical and applied fields, keep pace with scientific and professional development, and contribute to the development of human capabilities.

2. Program Mission

Working to prepare and graduate leading scientific and leadership competencies in the field of architecture and to develop the balance of knowledge in the field of scientific research and in the field of architecture to serve the local, regional and international community, as well as training and refining the minds of students scientifically and cognitively, and emphasizing social and cultural values and responding to the requirements of the local market.

3. Program Objectives

Graduate Profile: Graduates focus on designing buildings and structures, balancing functional, aesthetic, and environmental considerations.

- Core Objectives:

1. Proficiency in applying knowledge of mathematics and science.
2. Competence in analyzing and designing architectural projects.
3. Ability to work within multidisciplinary teams.
4. Commitment to ethical and professional standards.
5. Effective communication skills.
6. Project management skills.
7. Dedication to continuous learning and professional development.

4. Program Accreditation

No.

5. Other external influences

No.

6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	1	4	2 %	Basic course
College Requirements	0	0	0	Basic course
Department Requirements	41	157	98 %	Basic course
Summer Training	There is			
Other				

* This can include notes whether the course is basic or optional.

7. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical
2023-2024 / Second	Arc. 201	Architectural Design	4	16
	Arc. 202	Architectural drawing and graphic	2	4
	Arc. 203	Free Hand	0	4
	Arc. 204	Building construction II	2	6
	Arc. 205	Constructions I	4	0
	Arc. 206	History of Iraqi Architecture I	2	0
	Arc. 207	Logic and design methodology	2	0
	G.S 208	Computers II	2	4
	G.E. 209	English language II	4	0
	Arc. 210	History of Iraqi Architecture II	2	0
2023-2024 / Third	Arc. 301	Architectural Design	4	20
	Arc. 302	Building construction III	4	6
	Arc. 303	Constructions II	4	2
	Arc. 304	Planning basics	4	0
	Arc. 305	History of Architecture III	4	0
	Arc. 306	Piping services	2	0
	Arc. 307	Air conditioning services	2	0
	Arc. 308	Lighting services	2	0
	Arc. 309	Computers III	2	4
	Arc. 310	Preservation methods	2	0
2023-2024 / Forth	Arc. 401	Architectural Design	4	20
	Arc. 402	Interior design	1	4
	Arc. 403	Landscape	1	3
	Arc. 404	Advanced construction techniques	2	0
	Arc. 405	Housing planning	2	0
	Arc. 406	housing	2	0
	Arc. 407	Architecture theories	4	0

	Arc. 408	Arab-Islamic architecture	4	0
	Arc. 409	Architecture and climate	2	0
	Arc. 410	Architecture acoustics	2	0
	Arc. 411	Urban design theories	2	0
	Arc. 412	Survey	2	0
	Arc. 413	Technical construction	2	0
2023-2024 / Fifth	Arc. 501	Architectural Design	3	9
	Arc. 502	Thesis	5	21
	Arc. 503	Specifications and estimation	2	0
	Arc. 504	Professional practice	2	0
	Arc. 505	Architectural design theories	2	0
	Arc. 506	Architectural criticism theories	2	0
	Arc. 507	Contemporary Iraqi architecture	2	0
	Arc. 508	Contemporary Arab architecture	2	0
	Arc. 509	Philosophy of architecture	2	0

8. Expected learning outcomes of the program

Knowledge	
1) Professional Communication Skills	1) Writing and speaking effectively and using appropriate representational media both within the profession and with the general public.
2) Design thinking skills	2) To ask clear and precise questions, use abstract ideas to interpret information, consider diverse perspectives, reach logical conclusions, and test alternative outcomes against relevant standards and criteria.
3) Investigative skills	3) Collect, evaluate, record, and evaluate relatively relevant information and performance in order to support conclusions related to a specific project or task.
4) Architectural Design Skills	4) Effective use of basic formal, organizational and environmental principles and the ability of each to inform 2D and 3D design.
5) Demand Systems	5) Apply the fundamentals of both natural and formal demand systems and the ability of each to inform 2D and 3D design.
6) Using precedents	6) Study and understand the basic principles found in relevant precedents and make informed choices about incorporating these principles into architecture and urban design projects.
7) Global History and Culture	7) From the parallel and divergent histories of architecture and cultural norms of a variety of indigenous, vernacular, local and regional environments in terms of their political, economic, social, environmental and technological factors.

8) Cultural Diversity and Social Justice:	8) From the diverse needs, values, behavioral standards, physical abilities, social and spatial patterns that characterize different cultures and individuals and the responsibility of the architect to ensure equity in access to sites, buildings and structures.
Skills	
1) Pre-design	To prepare a comprehensive program for an architectural project that includes an assessment of client and user needs; Space inventory and requirements; Analysis of site conditions (including existing buildings); Review relevant building codes and standards, including relevant sustainability requirements, and evaluate their impacts on the project; Defining site selection and design evaluation criteria.
2) Site design	To respond to site characteristics, including urban context and development patterns, historical fabric, soils, topography, environment, climate, and building orientation, in developing the project design.
3) Codes and Regulations	To design sites, facilities and systems that respond to relevant laws and regulations, and include principles of safety and accessibility standards.
4) Technical documentation	Make technically clear drawings, prepare outline specifications, and build models that illustrate and specify the assembly of materials, systems, and components appropriate to the building design.
5) Structural Systems	To demonstrate the basic principles of structural systems and their ability to withstand gravity, earthquakes and lateral forces, as well as the selection and application of the appropriate structural system.
6) Ecosystems	To demonstrate the principles of ecosystem design, how design standards can vary by geographic region, and the tools used to evaluate performance. This demonstration should include active and passive heating and cooling, solar engineering, daylighting, natural ventilation, indoor air quality, solar systems, lighting systems, and acoustics.
7) Building Envelope Systems and Assemblies	Fundamental principles involved in the appropriate selection and application of building envelope systems relate to basic performance, aesthetics, moisture transfer, durability, energy resources and materials.
8) Building Materials and Assemblies	A basic principle used in the appropriate selection of interior and exterior building materials, finishes, products, components and assemblies based on their inherent performance, including environmental impact and reuse.
9) Building Services Systems	From the basic principles, proper application and performance of building services systems, including lighting, mechanical, plumbing, electrical, communications, vertical transportation, security and fire protection systems.
10) Financial considerations	The basics of construction costs, which should include project financing methods and feasibility, construction cost estimation, construction scheduling, operational costs, and life cycle costs.
Ethics	
1) Research	The theoretical and applied research methodologies and practices used during the design process.
2) Integrated assessments and design decision-making process	To demonstrate the skills associated with making integrated decisions across multiple systems and variables in completing a design project. This demonstration includes identifying problems, establishing evaluative criteria, analyzing solutions, and predicting implementation effectiveness.
3) Integrative Design	To make design decisions within a complex architectural project while demonstrating broad integration and consideration of environmental stewardship, technical documentation, accessibility, site conditions, life safety, environmental systems, structural systems, and building envelope systems and assemblies.

9. Teaching and Learning Strategies

- Explaining the scientific material to students in detail.
- Students' participation in solving mathematical, scientific and practical problems.
- Discussion and dialogue about vocabulary related to the topic.
- Individual and group criticism.
- Design groups.
- Individual and group submissions.

10. Evaluation methods

- Daily, weekly, monthly exams and the end-of-year exam.
- Individual and group evaluation.
- Exams within the studio (day sketch)
- Confidential evaluation.
- Evaluate projects periodically.

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Assistant Professor Dr. Nabil Taha Ismail	Architecture	Urban planning			Staff	
Assistant Professor Zainab Faleh Mahdi	Educational and psychological sciences	Methods of teaching the Arabic language			Staff	
Dr. Semaan Majeed Yas	Architecture	Architecture and planning of the Islamic city			Staff	
Assistant Professor Dr. Abdul Hussein Ali Hussein	Architecture	City planning			Staff	
Dr. Ali Odeh Muhammad	Architecture	Urban design and architecture theories			Staff	

Dr. Anwar Essa Abd	Civil Engineering	Soil and foundations			Staff	
Dr. Wameed Turki Muhammad	Mechanical Engineering	Fluids and refractories			Staff	
Dr. Hamid Ghaleb Hussein	Petroleum Engineering	Oil project management			Staff	
Dr. Omar Ismail Muhammad	Civil Engineering	Construction			Staff	
Lecturer Nabil Mohammed Saleh	Architecture	Architectural design			Staff	
Assistant Lecturer Ban Muhammad Sultan	Architecture	Architecture technology			Staff	
Assistant Lecturer Ayman Karim Henkish	Civil Engineering	Construction			Staff	
Assistant Lecturer Agadir Ahmed Abbas	Civil Engineering	Construction			Staff	
Assistant Lecturer Rawaa Ammar Razouki	Computer Engineering	information			Staff	

Professional Development

Mentoring new faculty members

- Developing skills and a creative way of thinking.
- Focus on the passion for learning, and enhancing the skills of presentation, discussion and dialogue.
- Constant motivation and character building in a gradual, hierarchical manner that escalates with the completion of the academic program.
- Integrating new teachers with more experienced teachers in the scientific and research fields.

Professional development of faculty members

- Participation in training courses in the field of architectural engineering specialization.
- Participation in the research field in local and international scientific conferences and seminars.
- Scientific cooperation with departments and colleges of architecture and planning in local, Arab and international universities.

12. Acceptance Criterion

Acceptance is central within the criterion of average and absorptive capacity. The pressure of study and the focus on the presence of creative and diligent skills are an important criterion in

classifying students and indicating the extent of their ability to complete the academic program scheduled for study.

13. The most important sources of information about the program

- Neufert Architects' Data.
- Design Drawing, Third Edition.
- Time saver standards for architectural design.
- Time-Saver Standards for Landscape Architecture.
- Time Saver Standards for Building Types.
- Time Saver Standards for Interior Design.
- Time Saver Standards for Urban Design.
- Time Saver Standards for Site Construction Details.
- Principles of Art and Architecture - Shirin Shirzad.
- Building construction - Zuhair Sako.
- Building construction - Atef Al-Suhairi.
- Iraqi architecture through the ages - Sharif Youssef.

Engineering programs:

- AutoCAD, Rivet, 3d max, Photoshop, Sketch Up, Lumion.
- Manual and personal skills:
- Manual drawing, engineering drawing.

14. Program Development Plan

- Using new concepts in the field of architecture to keep pace with the latest architectural trends and trends, especially related to sustainable development and achieving its goals in the field of architecture and urban planning.
- Encouraging the application and use of computer techniques and programs related to architectural visualization, simulation and modeling.
- Updating academic curricula in line with the local and global labor market.

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
2023-2024 / Second	Arc. 201	Architectural Design	Basic		•	•	•	•	•	•	•	•	•	•	•
	Arc. 202	Architectural drawing and graphic	Basic	•	•	•	•	•	•	•	•	•			
	Arc. 203	Free Hand	Basic	•	•						•	•			
	Arc. 204	Building construction II	Basic	•	•	•	•				•				
	Arc. 205	Constructions I	Basic		•		•			•		•	•	•	•
	Arc. 206	History of Iraqi Architecture I	Basic	•	•	•	•			•	•				
	Arc. 207	Logic and design methodology	Basic	•		•	•				•	•			
	G.S 208	Computers II	Basic	•	•					•	•	•	•		
	G.E. 209	English language II	Basic		•			•	•	•			•		
	Arc. 210	History of Iraqi Architecture II	Basic	•									•		
	Arc. 301	Architectural Design	Basic								•				

2023-2024 / Third	Arc. 302	Building construction III	Basic	•											•	•	
	Arc. 303	Constructions II	Basic	•							•						
	Arc. 304	Planning basics	Basic	•	•	•	•			•				•			
	Arc. 305	History of Architecture III	Basic		•		•			•		•				•	
	Arc. 306	Piping services	Basic	•	•	•	•			•	•						
	Arc. 307	Air conditioning services	Basic	•		•	•				•	•			•		
	Arc. 308	Lighting services	Basic	•	•					•	•	•		•	•	•	
	Arc. 309	Computers III	Basic		•			•	•	•		•					
	Arc. 310	Preservation methods	Basic	•	•			•	•	•			•	•			
2023-2024 / Forth	Arc. 401	Architectural Design	Basic		•	•	•	•	•	•	•	•	•	•	•	•	
	Arc. 402	Interior design	Basic	•	•				•	•			•	•	•		
	Arc. 403	Landscape	Basic	•	•				•	•			•				
	Arc. 404	Advanced construction techniques	Basic	•	•	•	•			•			•				
	Arc. 405	Housing planning	Basic		•		•			•		•	•	•	•	•	
	Arc. 406	housing	Basic	•	•	•	•			•	•						
	Arc. 407	Architecture theories	Basic	•		•	•				•	•			•		
	Arc. 408	Arab-Islamic architecture	Basic	•	•					•	•	•	•	•	•	•	

	Arc. 409	Architecture and climate	Basic		•			•	•	•			•		
	Arc. 410	Architecture acoustics	Basic	•	•					•			•	•	
	Arc. 411	Urban design theories	Basic		•	•	•			•				•	•
	Arc. 412	Survey	Basic	•	•	•	•			•				•	•
	Arc. 413	Technical construction	Basic	•	•	•	•	•	•	•					
2023-2024 / Fifth	Arc. 501	Architectural Design	Basic		•		•			•				•	•
	Arc. 502	Thesis	Basic	•	•	•	•			•	•				
	Arc. 503	Specifications and estimation	Basic	•		•	•				•	•		•	
	Arc. 504	Professional practice	Basic	•	•					•	•	•	•	•	•
	Arc. 505	Architectural design theories	Basic		•			•	•	•			•		
	Arc. 506	Architectural criticism theories	Basic	•	•			•	•	•			•	•	
	Arc. 507	Contemporary Iraqi architecture	Basic		•	•	•	•	•	•	•	•	•	•	•
	Arc. 508	Contemporary Arab architecture	Basic	•	•					•	•		•	•	•
	Arc. 509	Philosophy of architecture	Basic	•	•					•	•	•	•		

Course Description Form

1. Course Name	
Architectural Design	
2. Course Code	
ARC 301	
3. Semester / Year	
2023/2024	
4. The history of preparation of this description	
12/4/2024	
5. Available Attendance Forms	
The annual system consists of 30 weeks distributed over two semesters each semester 15 weeks and the student attends two days a week and full-time by 6 hours in each day of it .	
6. Number of academic hours (total) / (total number of units)	
12 hours per week 360 hours per year	
7. The name of the course administrator (if more than one name is mentioned)	
Name: Dr. Ali Odeh Mohammed	E-mail: ali.a.mohammed.archi@uodiyala.edu.iq
8. Course Objectives	
The third academic year is the final stage of the information base in the field of architectural design, where the student is introduced to complex and multifunctional projects for their various exploitative and service spaces. Construction decisions and implementation technology are at the forefront of the design offering, through choices for projects with requirements for short and medium-term construction seas and can be implemented through reinforced concrete structures or iron structures through which the student learns about the most important structural details to be known in this field and in practical support with the building installation material (III) throughout the academic year. Then the student moves in the second semester to a multi-storey project, through which he learns the principles of design for functional requirements of a typical repetitive nature. Such as the educational, administrative, residential and commercial structure, and to see some of the structural details directed for this purpose, as well as the possibility of applying what the student	**Course Objectives**

has learned in the subject of health services, air conditioning and lighting services given to him in the first and second semesters.	

9. Teaching and Learning Strategy

A- Knowledge Objectives A1 - Building imagination to support the conceptual framework of the idea A2 - Learn how to develop their ideas into a design project that can be implemented in reality A3. Develop their ability to develop a design that meets reasonable costs and efforts B - Course skills objectives 1- Teaching the student to deal with medium and large seas in design. 2- Teaching the student to design small projects in a short time	Strategy

10. Course Structure

First Semester 2023−2024

Evaluation method	Learning method	Unit or subject name	Required Learning Outcomes	Hours	Week
- Studio work, homework, presentations, classroom discussion, evolutionary criticism of concepts and project ideas and critical evaluation. - Student interaction and participation during lectures - Presentations by students -Reporting	Lecture, individual and group criticism, PowerPoint presentations and site visits	The first project - a small multi-activity project to identify the student's design ability during the first and second academic year with an extensive discussion of the students' work during the summer vacation		12	First
					Second
				12	Third
				12	Fourth
		The second project - a complex project that contains small and medium-sized spaces such as classrooms and multi-purpose halls (academic or commercial complexes, medium-sized industrial projects or recreational centers that are implemented through reinforced concrete structures or iron structures with the adoption of some structural details in the material of installing buildings III accompanying the current project.		12	V
				12	Sixth
				12	Seventh
				12	Eighth
				12	Ninth
				12	X
				12	Eleventh
				12	Twelfth
				12	Thirteenth
				12	Fourteenth
				12	Fifteenth

Second Semester 2023-2024

Evaluation method	Method of education	Unit / Subject Name	Required Learning Outcomes	Hours	The week
- Studio work, homework, presentations, classroom discussion, evolutionary criticism of concepts and project ideas and critical evaluation. - Student interaction and participation during lectures - Presentations by students -Reporting	Lecture, individual and group criticism, PowerPoint presentations and site visits	The third project: Choosing a multi-storey project of an administrative nature, academic project or housing, containing repeated floors through which the student gets acquainted with the set of structural details adopted in such structural structures (reinforced concrete or iron) with an integrated application of sanitary engineering systems, air conditioning and interior lighting engineering.		12	First
					Second
				12	Third
				12	Fourth
				12	V
				12	Sixth
				12	Seventh
				12	Eighth
				12	Ninth
				12	X
				12	Eleventh
				12	Twelfth
				12	Thirteenth
				12	Fourteenth
				12	Fifteenth

11. Course Evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student such as daily preparation and daily, oral and monthly exams
editorial and reports .... etc

12. Learning and Teaching Resources

- Architecture data book - Time sever book - AJ magazine Many of other architecture books	Required textbooks methodology, if) (any
	Main references (sources)

The subject includes rapid tests in order to determine the student's ability to choose the right design decisions within a short period of time. • Field and scientific visits.	Recommended supporting books and references (scientific volumes, reports ….)
	Electronic ,References Websites

Course Description Form

1. Course Name	
Buildings Construction III	
2. Course Code	
ARC 302	
3. Semester / Year	
Annual System 2023/2024	
4. The history of preparation of this description	
4/4/2024	
5. Available Attendance Forms	
The system is annual and consists of 15 weeks for each of the first semester and the second semester, and the student attends a day a week and full-time by five hours a day .	
6. Number of academic hours (total) / (total number of units)	
Five hours per week 150 hours per year	
7. The name of the course administrator (if more than one name is mentioned)	
Name: Dr. Hamid Ghaleb Hussein Email: hameedghalib@uodiyala.edu.iq	
8. Course Objectives	
Reviews the vocabulary of the history of architecture subject based on the style of (comparative analysis) and differentiation between different architectural styles throughout history and on the basis of: Geographical location, historical values, climatic and geological description, approved construction methods, specifications of ceilings, walls and foundations, while addressing the history of art through different eras - such as decorations, plastic art, ornaments and other arts, with an emphasis on the origins of urban agglomerations of different civilizations.	**Course Objectives**
9. Teaching and Learning Strategy	
A- Knowledge Objectives A1 - Building imagination to support the conceptual framework of the idea A2 - Learn how to develop their ideas into a design project that can be implemented in reality A3. Develop their ability to develop a design that meets reasonable costs and	Strategy

efforts

B - Course skills objectives

It enables students to design with the structural system and find various structural solutions and integrated details. And to prepare detailed plans for a multi-storey building of reinforced concrete in full detail Training students on and preparing detailed plans for a medium hall of structural seas of steel with full details

10. Course Structure

First Semester 2023-2024

Evaluation method	Learning method	Unit or subject name	Required Learning Outcomes	Hours	Week
Tests. - Final exam Classroom work and homework	Theoretical lecture Interactive lecture PowerPoint slides Work in the studio	Introducing the student to the objectives of the subject, its importance, its direct relationship to architectural design, the importance of architectural details, and the arrangement and output of plans in their final form.		5	First
		The nature of the building, the units and structural elements that make up the building and the structural systems (structural) and how to group the structural elements and the types of joints between them.		5	Second
		Concrete and reinforced concrete material, its types and structural specifications and how we can benefit from its properties and formability.		5	Third
		Structural behaviors of the basic structural parts and elements of the building in terms of the structural structure , the forces acting on it, and the nature of the loads to which the building is exposed		5	Fourth
		Types of stresses on the building, stress intensity, moments, and forces acting on the building and their effect		5	V
		Foundations, requirements, selection principles, types, differential settlement, why it happens and how it is treated, with a focus on the Raft Foundation, tanking methods and how to construct multi-storey building basements.		5	Sixth
		Systems of loads transmission in vertical buildings		5	Seventh
		Structural structures for roofs roof structures Functional requirements Classification and methods of roofs and building materials for them and the characteristics of each type of them andbuilding materials Trusses and joists Girders Frame holding structures (Frames (Portal) Rigid types and methods of construction		5	Eighth

		Shell structural ceilings and construction methods Roofs varieties and materials Roofs of panels or surfaces (cracked) Folded slab (plates) Roofs		5	Ninth
		Shell structural ceilings and construction methods Roofs Varieties and materials Folded slab roofs (plates) Roofs Grid Roof structures – Complement		5	X
		Tension roof structures Air stabled balanced or pneumatic roof structures		5	Eleventh
		The shell covers the building External envelop includes the external walls of the building and its functional and environmental requirements and types and focus on the external wall systems of the multi-storey structure, namely (Infill's (fillings and cladding) Cladding (and packaging) Facing)		5	Twelfth
		Lightweight internal divisions are easy to disassemble and include partitions, walls and installation		5	Thirteenth
		Suspended ceilings, suspended ceilings and suspended floors		5	Fourteenth
				5	Fifteenth
Second Semester 2023−2024					
Tests. - Final exam Introducing a site to work Classroom work and homework	Theoretical lecture Interactive lecture PowerPoint slides Work in the studio	Stairs and Ramps Types of stairs - especially concrete and precast stairs and reinforced roads Various structural on-site casting of construction and their structural behavior. Upgraders - Ramps for people, wheels, slope angles and turning radii.		5	First
		Infrastructure Services - Heating and cooling services and their systems H V A C and their accessories within the building		5	Second
		Electrical services , lighting , installations and identification of some of the symbols used in the plans Services - Health Water supply and drainage		5	Third
		Telecom & Special Services		5	Fourth
		Steel structures / iron material extraction, components, types, properties and disadvantages.		5	V
		Types of basic structural structures of steel and its basic structural sections.		5	Sixth
		Connecting methods Elements, sections and methods of connecting the core sections of the basic steel structures with each other		5	Seventh
		Methods of strengthening steel structures against lateral and horizontal forces (Bracing)		5	Eighth
		Methods of packaging steel structures from the outside of ceilings and walls and methods of connecting and insulating them environmentally, thermally and acoustically with the details of openings.		5	Ninth
		Internal cutting, types of floors, intermediate floors, structures and finishing materials		5	X
		Steel stairs, types and methods of their construction, concrete and their details		5	Eleventh

		Steel and concrete structural structures and their details		5	Twelfth
		CI/S F B system and rolling tables		5	Thirteenth
		Application of the I/S F B system to the charts and types of diagrams dealt with by this system		5	Fourteenth
		Site delivery		5	Fifteenth

11. Course Evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student such as daily preparation and daily, oral and monthly exams
editorial and reports .... etc

12. Learning and Teaching Resources

	Required textbooks (methodology, if any)
	Main references (sources)
	Recommended supporting books and references (scientific volumes, reports ….)
	Electronic ,References Websites

Course Description Form

1. Course Name	
Construction II	
2. Course Code	
ARC 303	
3. Semester / Year	
2023/2024	
4. The history of preparation of this description	
12/4/2024	
5. Available Attendance Forms	
The system is annual and consists of 15 weeks for each of the first semester and the second semester, and the student attends a day a week and full-time by three hours a day .	
6. Number of academic hours (total) / (total number of units)	
Three hours a week 90 hours a year	
7. The name of the course administrator(if more than one name is mentioned)	
Name: Dr. Omar Ismail Muhammad Email: omar.ismael@uodiyala.edu.iq	
8. Course Objectives	
The first part of the construction topic for the third academic year specializes in general coverage of the structural designs of buildings designed using reinforced concrete and by presenting general concepts in the origins of power distribution and the method of finding the stillness of the structure and the stress and strain calculations of iron and concrete used with an analysis of the origins of the designs of concrete thresholds, ceilings and columns. The second part specializes in the origins of the designs of iron structures, analysis of iron columns and tensile parts in the teeth, and designs of some types of lintels, and includes theoretical coverage of some scientific applications in a specialized laboratory for construction materials and through a set of experiments that include bricks, kashi Al-Mazaik, concrete, rebar, stone (cladding and packaging), alabaster, wood and coarse fine rubble.	**Course Objectives**
9. Teaching and Learning Strategy	
A- Knowledge Objectives A1 - Building imagination to support the conceptual framework of the idea A2 - Learn how to develop their ideas into a design project that can be implemented in reality A3. Develop their ability to develop a design that meets reasonable costs and efforts B - Course skills objectives It makes the student proficient in the calculations of the design of steel structure buildings, the analysis of iron columns, pressure parts in trusses, and the designs of some	Strategy

types of beams.	

10. Course Structure

First Semester 2022-2023

Evaluation method	Learning method	Unit or subject name	Required Learning Outcomes	Hours	Week
1.Tests Daily and weekly 2. Final Exam 3. Reports and homework	1.Lectures 2. Interactive lessons. 3. Duties and reports. 4. Tests and examinations. 5. Questions and discussions in the classroom. 6. The relationship between theory and practice. 7. Reports and presentations.	General introduction to the facilities and the distribution of power and types of forces imposed on them		3	First
		General introduction to the facilities and the distribution of power and types of forces imposed on them		3	Second
		Specific and non-static facilities and the method of finding a degree of static origin		3	Third
		Specific and non-static facilities and the method of finding a degree of static origin		3	Fourth
		Specific and non-static facilities and the method of finding a degree of static origin		3	V
		Introduction to reinforced concrete designs (concrete components and emotional stress diagrams for the neutrality and concrete used)		3	Sixth
		Introduction to reinforced concrete designs (concrete components and emotional stress diagrams for the neutrality and concrete used)		3	Seventh
		Analysis of the design of reinforced concrete beams (reinforcement in the tensile zone and pressure zone) for resisting bending moments		3	Eighth
		Analysis of the design of reinforced concrete beams (reinforcement in the tensile zone and pressure zone) for resisting bending moments		3	Ninth
		Analysis of the design of reinforced concrete beams (reinforcement in the tensile zone and pressure zone) for resisting bending moments		3	X
		Analysis of the design of reinforced concrete beams (reinforcement in the tensile zone and pressure zone) for resisting bending moments		3	Eleventh
		Design of concrete sill for shear resistance .		3	Twelfth
		Design of concrete sill for shear resistance .		3	Thirteenth
		Design of concrete sill for shear resistance .		3	Fourteenth
		examination		3	Fifteenth

10. **Course Structure**

Second Semester 2023-2024

Evaluation method	Method of education	Unit / Subject Name	Required Learning Outcomes	Hours	The week
Tests. - Final exam Classroom work and homework	Theoretical lecture Interactive lecture PowerPoint slides Work in the studio	Introduction to concrete ceilings and their types		3	First
		Design of concrete ceilings with mobile loads in one direction		3	Second
		Design of concrete ceilings with mobile loads in one direction		3	Third
		Concrete columns types and specifications. A - Axial force diagrams - bending moments of columns B- Design of short concrete columns		3	Fourth
		Concrete columns types and specifications. A - Axial force diagrams - bending moments of columns B- Design of short concrete columns		3	V
		Concrete columns types and specifications. A - Axial force diagrams - bending moments of columns B- Design of short concrete columns		3	Sixth
		Concrete columns types and specifications. A - Axial force diagrams - bending moments of columns B- Design of short concrete columns		3	Seventh
		General introduction to steel structures		3	Eighth
		General introduction to steel structures		3	Ninth
		General introduction to steel structures		3	X
		A - Design and analysis of individual iron columns B- Design of tensile parts in the toothbags C- Design of iron lintels by method (R - M) Method		3	Eleventh
		A - Design and analysis of individual iron columns B- Design of tensile parts in the toothbags C- Design of iron lintels by method (R - M) Method		3	Twelfth
		A - Design and analysis of individual iron columns B- Design of tensile parts in the toothbags C- Design of iron lintels by method (R - M) Method		3	Thirteenth
		A - Design and analysis of individual iron columns B- Design of tensile parts in the toothbags C- Design of iron lintels by method (R - M) Method		3	Fourteenth
		examination		3	Fifteenth

11. Course Evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student such as daily preparation and daily, oral and monthly exams
editorial and reports .... etc

12. Learning and Teaching Resources

Ferdinand L. Singer "Engineering Mechanics". Hani Mohamed Fahmy"Reinforced Concrete Designs	Required textbooks (methodology, if any)
P. Papov “Strength of Material”. Pasala Dayaratnam “Design of Steel Structures” Nilson “Design of Concrete Structures”	Main references (sources)
	Recommended supporting books and references (scientific volumes, reports ….)
	Electronic ,References Websites

Course Description Form

1. Course Name	
History of Architecture III	
2. Course Code	
ARC 305	
3. Semester / Year	
Annual System 2023/2024	
4. The history of preparation of this description	
4/4/2024	
5. Available Attendance Forms	
The system is annual and consists of 15 weeks for each of the first semester and the second semester, and the student attends a day a week and full-time by two hours a day .	
6. Number of academic hours (total) / (total number of units)	
Two hours per week 60 hours per year	
7. The name of the course administrator (if more than one name is mentioned)	
Name: Dr. Semaan Majeed Yas	Email: samaan.yas@uodiyala.edu.iq
8. Course Objectives	
Reviews the vocabulary of the history of architecture subject based on the style of (comparative analysis) and differentiation between different architectural styles throughout history and on the basis of: Geographical location, historical values, climatic and geological description, approved construction methods, specifications of ceilings, walls and foundations, while addressing the history of art through different eras - such as decorations, plastic art, ornaments and other arts, with an emphasis on the origins of urban agglomerations of different civilizations.	**Course Objectives**
9. Teaching and Learning Strategy	
A- Knowledge Objectives A1 - Building imagination to support the conceptual framework of the idea A2 - Learn how to develop their ideas into a design project that can be implemented in reality A3. Develop their ability to develop a design that meets reasonable costs and	Strategy

efforts

B - Course skills objectives

The student should be able to identify the geographical location, historical values, climatic and geological description, approved construction methods , specifications of ceilings, walls and foundations, while addressing the history of art through its different eras

10. Course Structure

First Semester 2023-2024

Evaluation method	Learning method	Unit or subject name		Required Learning Outcomes	Hours	Week
Tests. - Final exam Classroom work and homework	Theoretical lecture Interactive lecture PowerPoint slides Work in the studio	Evolution	Greek architecture		2	First
		The most important urban structures and construction roads	Greek architecture		2	Second
		Hippodome urban planning	Greek architecture		2	Third
		Architectural theories created by the Greeks (golden ratio and optical illusions) and model	Greek architecture		2	Fourth
		Architectural features and their distinction from Greek architecture	Roman architecture		2	V
		Roman domes and how to create them	Roman architecture		2	Sixth
		Distinctive examples of Roman architecture	Roman architecture		2	Seventh
		examination			2	Eighth
		Experiments and attempts to transform existing Roman buildings into churches in which Christian rituals were practiced	Advanced Christian architecture		2	Ninth
		Roman basilica building and its transformation into a church	Advanced Christian architecture		2	X
		Taking the Greek cross as a model for the Byzantine church	Byzantine architecture		2	Eleventh
		The construction of domes on the crossed arms of the cross and the use of mosaic and thus gave Byzantine architecture its distinctive style.	Byzantine architecture		2	Twelfth
		The use of semicircular arches and huge supporting supports was in the advantages of this building	Romanesque architecture		2	Thirteenth

		The prevalence of building religious complexes (cathedrals, monasteries, and schools of monks and nuns).	Romanesque architecture		2	Fourteenth
		examination			2	Fifteenth
Second Semester 2023-2024						
Tests. - Final exam Classroom work and homework	Theoretical lecture Interactive lecture PowerPoint slides Work in the studio	Evolution	Gothic architecture		2	First
		The Latin cross and the form of the church.	Gothic architecture		2	Second
		Integration of the meaning of the church with content and content.	Gothic architecture		2	Third
		The problem of lack of natural light in the chapel.	Gothic architecture		2	Fourth
		Finding solutions resulting from the use of flying contracts in facades and quadruple and hexagonal contracts in the chapel.	Gothic architecture		2	V
		Outstanding examples of French and English churches.	Gothic architecture		2	Sixth
		Quarterly exam.			2	Seventh
		The reasons for the emergence of the Renaissance style.	Renaissance architecture		2	Eighth
		Florence Cathedral and Prolonski architecture.	Renaissance architecture		2	Ninth
		The style spread in Rome, Venice and Europe.	Renaissance architecture		2	X

		Palladio's writings and their impact on the New World.	Renaissance architecture		2	Eleventh
		The appearance of public buildings and pivot planning.	Renaissance architecture		2	Twelfth
		Examples of Renaissance buildings and its most famous architects.	Renaissance architecture		2	Thirteenth
		The decline and decay of the style and the emergence of the Baroque and Rococo movement later.	Renaissance architecture		2	Fourteenth
		examination			2	Fifteenth

11. Course Evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student such as daily preparation and daily, oral and monthly exams
editorial and reports .... etc

12. Learning and Teaching Resources

World Architecture: A Cross-Cultural History 2nd Edition	Required textbooks ,methodology) (if any
	Main references (sources)
	Recommended supporting books and references (scientific volumes, reports ….)

	Electronic ,References Websites

Course Description Form

1. Course Name	
Planning Basics	
2. Course Code	
ARC 305	
3. Semester / Year	
Annual System 2023/2024	
4. The history of preparation of this description	
4/4/2024	
5. Available Attendance Forms	
The system is annual and consists of 15 weeks for each of the first semester and the second semester, and the student attends a day a week and full-time by two hours a day .	
6. Number of academic hours (total) / (total number of units)	
Two hours per week 60 hours per year	
7. The name of the course administrator (if more than one name is mentioned)	
Name: Assoc.Prof. Nabil Taha Ismail Email nabiltaha2001@uodiyala.edu.iq	
8. Course Objectives	
The topic aims to introduce the student to the developments that have occurred in the history of the development of cities and their growth over time, including the social, economic, and technical influences that led to growth and change in cities. Starting from ancient civilizations to contemporary cities.	**Course Objectives**
9. Teaching and Learning Strategy	
A- Knowledge Objectives A1 - Building imagination to support the conceptual framework of the idea A2 - Learn how to develop their ideas into a design project that can be implemented in reality A3. Develop their ability to develop a design that meets reasonable costs and efforts **B - Course skills objectives** The student will be able to familiarize himself with the developments that	Strategy

have occurred in the history of the development of cities and their growth over time, including the social, economic, and technical influences that led to the growth and change in cities. From ancient civilizations to contemporary cities.	

10. Course Structure

First Semester 2023-2024

Evaluation method	Learning method	Unit or subject name	Required Learning Outcomes	Hours	Week
Tests. - Final exam Classroom work and homework	Theoretical lecture Interactive lecture PowerPoint slides Work in the studio	Utopias ideas proposed as city plans - the proposal of Buckingham - Owen - Le Corporia Frank - Lower Wright - Suyamana garden cities.		2	First
		Contemporary cities - their problems and most important features - superficially touched on spatial and population expansion and social problems residential - transportation - service		2	Second
		Population study The reasons for the housing increase and the methods involved in calculating the population forecast, the population pyramid and its implications - its effects and the method of its establishment		2	Third
		Land uses are what they are, the correct methods of distribution, their percentage within the city, the mixtures of land uses in contemporary cities, the means used to control them.		2	Fourth
		Housing in contemporary cities is a problem, methods of housing survey, causes of the housing crisis, methods of prevention, methods of conducting survey and future housing estimation.		2	V
		Commercial uses and ways of distributing them within cities - types of internal and external trade and their impact on the economic development of cities and demographic physics.		2	Sixth
		Try		2	Seventh
		Industrial uses, their requirements and their signature within the framework of the general plan of cities - recreational areas, their types, requirements and distribution within the city		2	Eighth
		Pollution in contemporary cities / types causes / ways to prevent visual pollution - air pollution - water pollution - social pollution.		2	Ninth
		Services in cities - types - requirements - standards followed to guess. Routes – Water – Sewers – Electricity – Telephone		2	X
		The comprehensive plan of cities - their written contents and smiles and the most important features and specifications - with an explanation of some comprehensive plans for cities.		2	Eleventh

		Planning Cycle - its structure - successive stages - its impact - its applications in various areas of life and planning		2	Twelfth
		Planning transportation - an applied case using the planning wheel - causes of the transportation crisis - transportation system		2	Thirteenth
		Iraqi planning and building laws and regulations and their impact on controlling the growth of cities - the comprehensive plan of the census		2	Fourteenth
		examination		2	Fifteenth
Second Semester 2023-2024					
Tests. - Final exam Classroom work and homework	Theoretical lecture Interactive lecture PowerPoint slides Work in the studio	The contemporary city - its diseases and causes of morbidity - land use mixtures - pollution Geographical extension, and societal disintegration.		2	First
		Beauty, human need for beauty, aesthetic experience, aesthetic taste Aesthetic experience Different aesthetic values Aesthetic response, criticism		2	Second
		Aesthetic considerations in the city, values and influences in determining form, meaning, semantics, text, reference form between simplicity and complexity.		2	Third
		Formation in the vocabulary of the city, values and influences in determining the form, meaning, semantics, text, sign, form between simplicity and complexity.		2	Fourth
		Sketchetic theory and physiological perception and its reflection on mass formations and formations and the resurgence of the urban landscape		2	V
		Urban spaces and their importance. Public squares, their forms, types and their relationship to blocks, public parks and their types, space in Islamic cities		2	Sixth
		Quarterly exam.		2	Seventh
		Development and modernization in cities and the position of heritage and contemporary in urban development decisions, the issue of neighborhoods (traditional) and development policies, and the meaning of context and contextuality in the urban system.		2	Eighth
		Privacy in architecture and planning and its importance in creating local identity and anti-globalization. And the elements of creating identity		2	Ninth

		and promoting tourism and communication within the framework of cities and neighborhoods.			
		Commercial streets and centers. Cities and the style of dealing with them Continuity, homogeneity, stability, clarity, significance and other considerations involved in drawing the features of commercial centers and streets		2	X
		Transportation and communication technologies and their impact on bringing about change and growth in cities - the cities of satellites and Meccapolis, Global Village		2	Eleventh
		City services and their impact on strengthening the urban entity and directing the axes of growth, development and spatial expansion Tools for limiting the spatial and population growth of contemporary cities		2	Twelfth
		Street and field furniture - surface finishes, lighting and advertising Phone cabins Trash pots Organization and layout plants		2	Thirteenth
		Building laws, reconstruction and planning and their impact on the growth of cities physically and spatially Exposure to each other Building controls F.C, O.S.R, F.A.R Building plans Islamic legislation in architecture and planning.		2	Fourteenth
		The impact of legislation on drawing the identity of the urban landscape - studies, models and renewal - Baghdad - Rome - Paris - London.		2	Fifteenth

11. Course Evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student such as daily preparation and daily, oral and monthly exams
editorial and reports .... etc

12. Learning and Teaching Resources

- Spreiregen, Paul D., The Architecture of Towns and Cities, McGraw- Hill Book Company, 1965. - Gallion, Arthur B., The Urban Pattern City planning and Design, Van Nostrand N.Y.1975.	Required textbooks ,methodology) (if any
- Available websites related to the subject : Planning , Urban Design , Population , Housing , Transportation and Cities .	Main references (sources)
- Parfect, Michael and Gordan Power, Planning for Urban Quality, New York, 1997 . - Lynch, Kevin, The Image of City, M.I.T. Press Cambridge, Massachusettc, 1972 - Bacon, Edmund, N . Design of Cities, Thames and Hudson, London, 1975. - Cliff Moughtin, Urban Design, Street and Square Third Edition, Architectural Oxford, 2003.	Recommended supporting books and references

	scientific) ,volumes (…. reports
- Personal lectures prepared by the professor Data show about samples of Historic and Modern cities regarding morphology , Population , evolution , expansion .	Electronic ,References Websites

Course Description Form

1. Course Name	
Health Services	
2. Course Code	
ARC 306	
3. Semester / Year	
2023−2024	
4. The history of preparation of this description	
4/4/2024	
5. Available Attendance Forms	
The semester system consists of 15 weeks and the student attends a day in The week and full-time by two hours a day .	
6. Number of academic hours (total) / (total number of units)	
Two hours per week 30 hours per year	
7. The name of the course administrator (if more than one name is mentioned)	
Name: Yaser Ibrahim Email : yaser_ij@uodiyala.edu.iq	
8. Course Objectives	
A- Knowledge Objectives A1 - Building imagination to support the conceptual framework of the idea A2 - Learn how to develop their ideas into a design project that can be implemented in reality A3 - Develop their ability to develop a design that meets the costs and reasonable efforts , taking into account all the services needed by the building. **B - Course skills objectives** It makes the student proficient in the design of cold and hot water networks, drainage of ordinary and heavy water and rainwater, as	**Course Objectives**

well as the principles of waste collection and discharge for low-lying and multi-storey buildings.	

9. Teaching and Learning Strategy

1. Lectures- 2. Interactive lessons . 3. Tests and exams. 4. Questions and discussions in class. 5. The relationship between theory and practice	Strategy

10. Course Structure

Evaluation method	Learning method	Unit or subject name	Required Learning Outcomes	Hours	Week
1.Tests Daily and weekly 2. Exam Final 3. Reports and duties Home	1.Lectures 2. Interactive lessons . 3. Duties and reports . 4. Tests and examinations. 5. Questions and discussions in the classroom. 6. The relationship between theory and practice. 7. Reports and presentations.	Design of cold and hot water networks for single-storey and multi-storey buildings		2	First
		Plumbing		٢	Second
		Water supply pipe sizing. (Hot and cold water)		٢	Third
		Health Foundation Structures, Types, Expenses Fixture		2	Fourth
		Rainwater drainage networks for buildings Drainage system		2	V
		Ventilation networks for sewer pipes for buildings Vent system		2	Sixth
		Types of pipes used in pipes material networks		2	Seventh
		All these paragraphs study their relationship to the architectural design of buildings of different uses.		2	Eighth
		Swimming pool: - Types - type		2	Ninth

		Elected examples through which the student learns about the principles of applied work		2	X
		Elected examples through which the student learns about the principles of applied work		2	Eleventh
		Elected examples through which the student learns about the principles of applied work		2	Twelfth
		Rapid Practical Exam		2	Thirteenth
		General discussion		2	Fourteenth
				2	Fifteenth

11. Course Evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student such as daily preparation and daily, oral and monthly exams
editorial and reports .... etc

12. Learning and Teaching Resources

	Required textbooks (methodology, if any)
	Main references (sources)
Field and scientific visits Additional lectures by foreign guest lecturers, if any	Recommended supporting books and references (scientific volumes, reports ….)
	Electronic ,References Websites

Course Description Form

1. Course Name	
Air conditioning services	
2. Course Code	
ARC 307	
3. Semester / Year	
2023−2024	
4. The history of preparation of this description	
3/9/2023	
5. Available Attendance Forms	
The semester system consists of 15 weeks and the student attends a day in The week and full-time by two hours a day .	
6. Number of academic hours (total) / (total number of units)	
Two hours per week 30 hours per year	
7. The name of the course administrator (if more than one name is mentioned)	
Name: Dr. Wameed Turki Mohammed Email : wameedh.altameemi@uodiyala.edu.iq	
8. Course Objectives	
The objective is to develop knowledge of HVAC. The course will include the following topics of discussion: 1- Air and humidity calculations, physiological reactions for cooling and heating, thermal calculations and heating systems. 2- Air – conditioning and cooling calculations, classification of air ducts. 3- Design of air ducts for air distribution systems, ventilation and air cleaning •	Course Objectives

9. Teaching and Learning Strategy	
1. Lectures- 2. Interactive lessons . 3. Tests and exams. 4. Questions and discussions in class. 5. The relationship between theory and practice	Strategy

10. Course Structure					
Evaluation method	Learning method	Unit or subject name	Required Learning Outcomes	Hours	Week
1.Tests Daily and weekly 2. Exam Final 3. Reports and duties Home	1.Lectures 2. Interactive lessons . 3. Duties and reports . 4. Tests and examinations. 5. Questions and discussions in the classroom. 6. The relationship between theory and practice. 7. Reports and presentations.	Principles of thermal ecological comfort	**A- Knowledge Objectives** A1- Professional communication skills: writing and speaking effectively and using representative media appropriate both within the profession and with the general public. A2- Design thinking skills: to ask clear and accurate questions, use abstract ideas to interpret information, consider diverse perspectives, reach logical conclusions, and test alternative	2	– First ٢٨/١/٢٠٢٤ ٢٠٢٤/٢/١
		Calculations of heating load and cooling load		2	Second ٤/٢- ٢٠٢٤/٢/٨
		Principles of heating and heating systems		2	Third ١١/٢- ٢٠٢٤/٢/١٥
		Principles of refrigeration		2	Fourth ١٨/٢- ٢٠٢٤/٢/٢٢
		Air conditioning residential floor		2	Fifth ٢٥/٢- ٢٠٢٤/٢/٢٩
		Air conditioning floor, medium and large buildings		2	Sixth ٣/٣-٧/٣/٢٠٢٤
		Air distribution and duct design		2	Seventh ١٠/٣- ٢٠٢٤/٣/١٤
		Hot and cold water pipes are designed for heating and cooling purposes		2	Eighth ١٧/٣- ٢٠٢٤/٣/٢١
		Approximate main areas of air conditioning works in buildings		2	Ninth ٢٤/٣- ٢٠٢٤/٣/٢٨
		Elected examples through which the student learns about the principles of applied work		2	Tenth ٣١/٣- ٢٠٢٤/٤/٤
		Elected examples through which the student learns about the principles of applied work		2	Eleventh ٧/٤- ٢٠٢٤/٤/١٢
		Elected examples through which the student learns about		2	Twelfth ١٤/٤- ٢٠٢٤/٤/١٨

		the principles of applied work	results against relevant standards and standards. A3. Investigation skills: Collect, evaluate, record and evaluate relatively relevant information and performance in order to support conclusions about a specific project or task.		
		Elected examples through which the student learns about the principles of applied work		2	Thirteenth ٢٠٢٤/٤/٢٥/٤/٢١
		Elected examples through which the student learns about the principles of applied work		2	Fourteenth ٢٨/٤-٢٠٢٤/٥/٢
		Elected examples through which the student learns about the principles of applied work		2	Fifteenth ٥/٥-٢٠٢٤/٥/٩
Compensatory week					
Final exams 19/5/2024 for two weeks					
Second round exams 16/6/2024 for two weeks					

11. Course Evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student such as daily preparation and daily, oral and monthly exams
editorial and reports .... etc

12. Learning and Teaching Resources

PRINCIPLES OF HEATING VENTILATING AND AIR CONDITIONING by ASHRAE	Required textbooks methodology, if) (any
	Main references (sources)

	Recommended supporting books and references (scientific volumes, reports ….)
	Electronic ,References Websites

Course Description Form

1. Course Name	
Lighting Services	
2. Course Code	
ARC 308	
3. Semester / Year	
2023−2024	
4. The history of preparation of this description	
4/4/2024	
5. Available Attendance Forms	
The semester system consists of 15 weeks and the student attends a day in The week and full-time by two hours a day .	
6. Number of academic hours (total) / (total number of units)	
Two hours per week 30 hours per year	
7. The name of the course administrator (if more than one name is mentioned)	
Name: Dr. Mohamed Waleed Email :	
8. Course Objectives	
A- Knowledge Objectives A1 - Building imagination to support the conceptual framework of the idea A2 - Learn how to develop their ideas into a design project that can be implemented in reality A3 - Develop their ability to develop a design that meets the costs and reasonable efforts , taking into account all the services needed by the building. **B - Course skills objectives** Introducing the student to the most important basic principles of electrical systems, the lighting system, the electrical power	**Course Objectives**

distribution system, the fire system, the telephone system,the internal call system, and others	

9. Teaching and Learning Strategy	
1. Lectures- 2. Interactive lessons . 3. Tests and exams. 4. Questions and discussions in class. 5. The relationship between theory and practice	Strategy

10. Course Structure

Evaluation method	Learning method	Unit or subject name	Required Learning Outcomes	Hours	Week
1.Tests Daily and weekly 2. Exam Final 3. Reports and duties Home	1.Lectures 2. Interactive lessons . 3. Duties and reports . 4. Tests and examinations. 5. Questions and discussions in the classroom. 6. The relationship between theory and practice. 7. Reports and presentations.	Design of cold and hot water networks for single-storey and multi-storey buildings Plumbing Water supply pipe sizing. (Hot and cold water)		2	First
		Calculations of heating load and cooling load		2	Second
		Principles of heating and heating systems		2	Third
		The principles of calculating capacity relative to the requirements of different buildings		2	Fourth
		Air conditioning residential floor		2	V
		Monthly exam		2	Sixth
		Central services and calculating the spaces necessary to contain them		2	Seventh
		Hot and cold water pipes are designed for heating and cooling purposes		2	Eighth
		The principles of interior lighting		2	Ninth

		design, integration of natural lighting, interior lighting, and integration with the air conditioning system through a set of examples elected for this purpose			
		Elected examples through which the student learns about the principles of applied work		2	X
		Elected examples through which the student learns about the principles of applied work		2	Eleventh
		Elected examples through which the student learns about the principles of applied work		2	Twelfth
		Rapid Practical Exam		2	Thirteenth
		General discussion		2	Fourteenth
				2	Fifteenth

11. Course Evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student such as daily preparation and daily, oral and monthly exams
editorial and reports .... etc

12. Learning and Teaching Resources

Proceedings of Building Science Insight Conference - National Research Conceal of 1992 - Ontario - Canada 2" - Sustainability Architecture and Building Design (SABD - Sustainability Reporting Program) - NAHB Center, Manual on Developing the Construction Program, National Association of Home Builders, United States of America, 2004. 3 -Lubny, Brand (et al.), "Design and Analysis", Van Nusertand Reinhold, New York, 1997. 4- Jessen, D., "The Great and the Green:" The Tenderness of Sustainable Architecture in the Twentieth Century, Princeton Architectural Press, New York. 2002 NAHB Center, Guide to Developing Evacuation Programs, National Association of Home Builders, 1999. 5- Rock, Annessy, "Daylight in the Building- Solar Heating and Turbiding Program (IEA), International Planning Group, Marialland, Alwayite United of America, 1998. 6. Gordon, J., J. Kubuck. "Ecosystem Management and Economic Development," Environmental Reflection: The Next Eagle of Environmental Policy, Yale University Press, New Haven. 1997. 7. Giffoyen, Abruch, Climate and Architecture, Rabbitanian Printing Press, Second Edition, London, 1976. 8. Egan, David, "Concepts in Architectural Lighting," McGraw Hill, New York, 1983.	Required textbooks (methodology, if any)
" Velux Grop , "Daylighting , Cap .F., Martin-1, Freance, Velux and the Red Velux logo Press, 2005, "Principles of Natural Lighting", J.A. Lynes, 1968, New York 2, Illinowood, Scott, "Daylight in the Design Process," AIA, California, 1985,	Main references (sources)

Field and scientific visits Additional lectures by foreign guest lecturers, if any	Recommended supporting books and references (scientific volumes, reports ….)
	Electronic ,References Websites

Course Description Form

1. Course Name	
Computers III	
2. Course Code	
ARC 309	
3. Semester / Year	
Annual System 2023/2024	
4. The history of preparation of this description	
4/4/2024	
5. Available Attendance Forms	
The system is annual and consists of 15 weeks for each of the first semester and the second semester, and the student attends a day a week and full-time by two hours a day .	
6. Number of academic hours (total) / (total number of units)	
3 hours per week 90 hours per year	
7. The name of the course administrator (if more than one name is mentioned)	
Name: Lect. Nabil Mohammed Saleh Email: nabil.ms@uodiyala.edu.iq	
8. Course Objectives	
Learn and professionalize the field of art and design work. Learn the basics of the field of engineering design in general through the set of tools provided by the program, and the environment provided by the program is very similar to the real environment, which makes the student more familiar with the basics of the field of design. Explain how to convert a two-dimensional drawing into a stereoscopic drawing or three-dimensional drawing Explain how clips are made and clarify the interior details of architectural blocks Giving the student the opportunity to unleash his creative imagination and create completely new ideas and designs, meaning that the student can design anything in his imagination and add special effects that he shows in the form of creative designs in every sense of the word (such as designs for anime and cartoon movie decorations, etc.).	**Course Objectives**
9. Teaching and Learning Strategy	

A- Knowledge Objectives A1- The program is mainly used in technical works and innovative engineering designs A2- Testing engineering plans and the possibility of implementing them on the ground. A3- Drawing perspective and converting diagrams from two-dimensional to three-dimensional drawings **B - Course skills objectives** B1 - The work of designs and decorations for various cartoon films, it gives the possibility of three-dimensional display, which gives the designs a real shape and a kind of realism. B2 – Learn to design three-dimensional shapes and characters and make adjustments to them with ease. B3 - Creating the best creative works unprecedented in the field of design, and this is the best thing provided by the program.	Strategy

10. Course Structure

First Semester 2023-2024

Evaluation method	Learning method	Unit or subject name	Required Learning Outcomes	Hours	Week
Discussions, class assignments, homework, semester and daily exams.	Explain the lecture using a number of modern means of illustration and open the door for question and discussion in a	Running the program (3D Studio Max) and identifying its components (command list, command boards, element platoon, active scene, movement and time control zone, viewer display control keys, jump control keys, determining the stage of selecting the element	- The architectural design of the building in light of global developments in particular. - Designing small buildings such as housing down to designing large	3	First
				3	Second
				3	Third
		Change the distribution of simple screen scenes to the viewer, zooming) browsing, spinning (rotation) item selection.		3	Fourth
				3	V
				3	Sixth
				3	Seventh
		Simple editing tools, merge forms, applications merge forms		3	Eighth
				3	Ninth

	practical and extensive manner.		strategic buildings such as hotels Hospitals, ports , airports and most other building patterns and urban environment design		
				3	X
		Duplicate objects and materials, import forms (import) Export forms (Export)		3	Eleventh
				3	Twelfth
		Creation of standard geometric elements Geosphere,Sphere cone, Box, ,Tube, cylinder, plane.Applications,Teapot, pyramid,tours		3	Thirteenth
				3	Fourteenth
				3	Fifteenth
Second Semester 2023-2024					
Discussions, class assignments, homework, semester and daily exams.	Explain the lecture using a number of modern means of illustration and open the door for question and discussion in a practical and extensive manner.	Advanced Engineering Elements Hydra, Oil Tank , Chamber , cylinder , Chamber box, Tours Knot , Gengen ,L – Ext, Spindle, Capsule, Prism , Ring wave , C – Ext انشاء موجة حلقية		3	First
				3	Second
		Line ,Circle , Spline , Ellipse , Arc, Daunt, Ngon)		٣	Third
				3	Fourth
		Text		٣	V
				3	Sixth
		Helix, Section Section, Modifications, Copying, Array, Melodic, Bend, Mirror		3	Seventh
				3	Eighth
		Boolean (Union , Intersection , Subtraction)		3	Ninth
				3	X
		Lighting Perspective, Cameras, Lighting , Material Addition, Principles of Movement and Shading		3	Eleventh
				3	Twelfth
		Giving preliminary principles for advanced architectural systems		3	Thirteenth
				3	Fourteenth
				3	Fifteenth

11. Course Evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student such as daily preparation and daily, oral and monthly exams
editorial and reports .... etc

12. Learning and Teaching Resources

3ds-max tutorial	Required textbooks ,methodology) (if any
https://knowledge.autodesk.com/support/3ds-max	Main references (sources)
Diascientific Journal	Recommended supporting books and references scientific) ,volumes (…. reports
https://www.autodesk.com/products/3ds-max/overview?term=1-YEAR#3ds-max-intro	Electronic ,References Websites

Course Description Form

1. Course Name	
Conservation methods	
2. Course Code	
ARC 310	
3. Semester / Year	
Second Semester 2023/2024	
4. The history of preparation of this description	
12/4/2024	
5. Available Attendance Forms	
The semester system consists of 15 weeks and the student attends a day in The week and full-time by two hours a day .	
6. Number of academic hours (total) / (total number of units)	
Two hours per week 30 hours per semester	
7. The name of the course administrator (if more than one name is mentioned)	
Name: Assoc.Prof. Nabil Taha Ismail Email nabiltaha2001@uodiyala.edu.iq	
8. Course Objectives	
Introducing the student to an important and vital topic, which is the subject of preserving the architectural heritage, which is a specialized scientific field concerned with matters of protection, prevention and rehabilitation of buildings and sites of distinct archaeological, historical and heritage value.	**Course Objectives**
9. Teaching and Learning Strategy	
A- Knowledge Objectives A1- Professional communication skills: writing and speaking effectively and using representative media appropriate both within the profession and with the general public. A2- Design thinking skills: to ask clear and accurate questions, use abstract ideas to interpret information, consider diverse perspectives, reach logical conclusions, and test alternative results against relevant standards and standards. A3. Investigation skills: Collect, evaluate, record and evaluate relatively relevant information and performance in order to support conclusions about a specific project or task. B - Course skills objectives Introducing the student to the preservation of architectural heritage and its importance in the world, and accordingly the student learns how to deal with designs in heritage sites.	Strategy

10. Course Structure

First Semester 2022-2023

Evaluation method	Learning method	Unit or subject name	Required Learning Outcomes	Hours	Week
1.Tests Daily and weekly 2. Final Exam 3. Reports and homework	1.Lectures 2. Interactive lessons. 3. Duties and reports. 4. Tests and examinations. 5. Questions and discussions in the classroom. 6. The relationship between theory and practice. 7. Reports and presentations.	Preservation of architectural heritage – basic definitions, conservation objectives, origin and development of the concept		2	First
		Causes and sources of damage and loss in architectural and urban heritage		2	Second
		Dimensions of preserving architectural heritage: building selection criteria, efficiency of use and economic feasibility, social, planning, administrative, financial and legislative dimensions		2	Third
		Preparatory steps for conservation work: inventory, documentation, registration, historical and physical studies		2	Fourth
		Treatments and behavioral standards: treatment requirements, choice of treatment method, treatment levels, post-treatment protection		2	V
				2	Sixth
		Semester exam		2	Seventh
		Rehabilitation and Employment of Historic Buildings: Rehabilitation Criteria, Contemporary Job Election, Evaluation Criteria for Efficiency of Use		2	Eighth
		The role of rehabilitation in improving the urban environment – local and global examples		2	Ninth
		The Arab experience in architectural conservation: its applications and problems		2	X
		Global Experience in Architectural Conservation – Presentation of Distinguished Models		2	Eleventh
		Local experience in conservation: history of the experience, relevant authorities, basic dimensions of the experience, experiences of preserving historical centers in Iraq		2	Twelfth
		Experiences of preserving historical centers in Baghdad: the experience of Kadhimiya, Bab al-Sheikh, old Rusafa.		2	Thirteenth
		Experiences of preserving historic buildings in Baghdad		2	Fourteenth
				2	Fifteenth

11. Course Evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student such as daily preparation and daily, oral and monthly exams
editorial and reports .... etc

12. Learning and Teaching Resources

Preservation of historic buildings Bernard Felden 1982	Required textbooks (methodology, if any)
	Main references (sources)
Many sources, websites and reports are available on the Internet.	Recommended supporting books and references (scientific volumes, reports ….)
	Electronic ,References Websites

Course Description Form

1. Course Name	
Theories of Architecture	
2. Course Code	
Arc 407	
3. Semester / Year	
Year	
4. Description Preparation Date	
2024	
5. Available Attendance Forms:	
6. Number of Credit Hours (Total) / Number of Units (Total)	
٦٠ / ٤	
7. Course administrator's name (mention all, if more than one name)	
Name: Ali Awda Mohammed Email: ali.a.mohammed.archi@uodiyala.edu.iq	
8. Course Objectives	
Course Objectives	• Preparing the student to enter the world of architectural theories by understanding the development of architectural production throughout the ages. • Developing the student's language of expression by to understand the relationship between the form of architecture and its intellectual content. • Developing the student's artistic and critical sense by diagnosing the aspects in which architectural production failed across different eras, which in turn led to the emergence of an era with different architectural productions.
9. Teaching and Learning Strategies	
Strategy	The academic program of the course is based on the theoretical aspect and depends on the use of modern presentation technologies (smart board, computer, etc.) in addition to discussions and exchange of ideas and scientific facts with students, as well as giving assignments and preparing reports individually and collectively for students.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1st Course					
First	2	Understanding initial data of the stu material	An introductory lecture about the nature of the course	PowerPoint Lectures + Educational Videos	Dialogue questions with quizzes and scheduled tests
Second	2	Understanding the basic concept of the theoretical material	The Concept of architectural theory	PowerPoint Lectures + Educational Videos	Dialogue questions with quizzes and scheduled tests
Third	2	Identify the vocabulary of the theoretical concept	Form and content in architectural theory	PowerPoint Lectures + Educational Videos	Dialogue questions with quizzes and scheduled tests

Fourth	2	Learn about the basic theories	Sources of architectural forms	PowerPoint Lectures + Educational Videos	Dialogue questions with quizzes and scheduled tests
Fifth	2	Acquire the skill of criticism	Criticism of formal theories	PowerPoint Lectures + Educational Videos	Dialogue questions with quizzes and scheduled tests
Sixth	2	Exploring the student's understanding and comprehension of the previous material	Test	-	-
Seventh	2	Identifying ancient architectural products and the sources of its forms	Theories of Architecture in the Ancient World (Greece & Roman)	PowerPoint Lectures + Educational Videos	Dialogue questions with quizzes and scheduled tests
Eighth	2	Identifying medieval products and the sources of their forms	Medieval Architecture Theories	PowerPoint Lectures + Educational Videos	Dialogue questions with quizzes and scheduled tests
Ninth	2	Exploring the student's understanding and comprehension of the previous material	Test	-	-
Tenth	2	Understanding Classical Styles in Architecture	Renaissance architectural theories	PowerPoint Lectures + Educational Videos	Dialogue questions with quizzes and scheduled tests
Eleventh	2	Understanding Classical Styles in Architecture	Baroque architectural theories (17^{th} Century)	PowerPoint Lectures + Educational Videos	Dialogue questions with quizzes and scheduled tests
Twelfth	2	The concept of relativity in architecture and understanding the conflict of architectural styles	19^{th} century architectural theories (P.1)	PowerPoint Lectures + Educational Videos	Dialogue questions with quizzes and scheduled tests
Thirteenth	2	Exploring the student's understanding and comprehension of the previous material	Test	-	-
Fourteenth	2	The concept of relativity in architecture and understanding the	19^{th} century architectural theories (P.2)	PowerPoint Lectures + Educational Videos	Dialogue questions with quizzes and

		conflict of architectural styles			scheduled tests
Fifteenth	2	The concept of relativity in architecture and understanding the conflict of architectural styles	19th century architectural theories (P.3)	PowerPoint Lectures + Educational Videos	Dialogue questions with quizzes and scheduled tests
2nd Course					
First	2	Understanding Modern Trends in 20th Century Architecture	Architectural Theories in the 20th Century / First Period (P.1)	PowerPoint Lectures + Educational Videos	Dialogue questions with quizzes and scheduled tests
Second	2	Understanding Modern Trends in 20th Century Architecture	Architectural Theories in the 20th Century / First Period (P.2)	PowerPoint Lectures + Educational Videos	Dialogue questions with quizzes and scheduled tests
Third	2	Understanding Modern Trends in 20th Century Architecture	Architectural Theories in the 20th Century / Second Period (P.1)	PowerPoint Lectures + Educational Videos	Dialogue questions with quizzes and scheduled tests
Fourth	2	Understanding Modern Trends in 20th Century Architecture	Architectural Theories in the 20th Century / Second Period (P.2)	PowerPoint Lectures + Educational Videos	Dialogue questions with quizzes and scheduled tests
Fifth	2	Understanding Modern Trends in 20th Century Architecture	Late Modern Architecture	PowerPoint Lectures + Educational Videos	Dialogue questions with quizzes and scheduled tests
Sixth	2	Exploring the student's understanding and comprehension of the previous material	Test	-	-
Seventh	2	Understanding Modern Trends in 20th Century Architecture & Critical Thinking for Modernist Architecture	Post Modern Architecture (P.1)	PowerPoint Lectures + Educational Videos	Dialogue questions with quizzes and scheduled tests
Eighth	2	Understanding Modern Trends in 20th Century Architecture & Critical Thinking for Modernist Architecture	Post Modern Architecture (P.2)	PowerPoint Lectures + Educational Videos	Dialogue questions with quizzes and scheduled tests
Ninth	2	Understanding Modern Trends in 20th Century Architecture &	Postmodern Architecture Trends (P.1)	PowerPoint Lectures + Educational Videos	Dialogue questions with quizzes and

		Critical Thinking for Modernist Architecture			scheduled tests
Tenth	2	Understanding Modern Trends in 20th Century Architecture & Critical Thinking for Modernist Architecture	Postmodern Architecture Trends (P.1)	PowerPoint Lectures + Educational Videos	Dialogue questions with quizzes and scheduled tests
Eleventh	2		Test	-	-
Twelfth	2	Contemporary trends in architectural theories	Deconstructive Architecture (P.1)	PowerPoint Lectures + Educational Videos	Dialogue questions with quizzes and scheduled tests
Thirteenth	2	Contemporary trends in architectural theories	Deconstructive Architecture (P.2)	PowerPoint Lectures + Educational Videos	Dialogue questions with quizzes and scheduled tests
Fourteenth	2	Contemporary trends in architectural theories	Deconstructive Architecture (P.3)	PowerPoint Lectures + Educational Videos	Dialogue questions with quizzes and scheduled tests
Fifteenth	2	Exploring the student's understanding and comprehension of the previous material	Test	-	-

11. Course Evaluation	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc.	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	25%
Main references (sources)	25%
Recommended books and references (scientific journals, reports...)	20%
Electronic References, Websites	30%

Course Description Form

1. Course Name	
Architectural Design	
2. Course Code	
Arc 501	
3. Semester / Year	
2023/2024	
4. Description Preparation Date	
17/10/2024	
5. Available Attendance Forms:	
The student attends two days a week, full-time, for 12 hours per week.	
6. Number of Credit Hours (Total) / Number of Units (Total)	
6 hours per week 90 hours per semester – 7 Unit	
7. Course administrator's name (mention all, if more than one name)	
Name: Nabil T. Ismael Email: nabiltaha2001@uodiyala.edu.iq	
8. Course Objectives	
Course Objectives	This subject is the last page for the architectural student in the design practice for the years of study and focuses on the concept of urban development through direct field documentation of heritage areas or central areas in Iraqi cities. Through this, development alternatives are established as a basis for the concepts of preservation, development and building materials, in an organizational manner based on the laws and legislation of the Baghdad Municipality and the municipalities of the governorates. Student groups (6-8 students) participate in preparing the alternatives, taking it upon themselves to provide documentation of the entire reality of the area in question, through plans that clarify the use case, land uses, construction case, heritage case, diagnosis of preserved buildings and their assemblies, and sorting out the distinctive architectural vocabulary. In light of this, the appropriate planning alternative is presented for developing the area in the form of plans, models and live images, the positives and negatives of which are discussed by the professors and with the participation of all students at the end of the first semester.
9. Teaching and Learning Strategies	
Strategy	The learning and teaching strategy is based on forming design groups to start the url project by studying the reality of the situation and knowing the urban problems in the stu area through practical exercises on which the study material is based and presented o weekly basis for the purpose of teaching students to think, analyze, criticize, particip and know the correct and incorrect aspects of the exercises presented by the design gro and other students by following the group and individual criticism, thus increas intellectual, educational and cognitive skills.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
First	12	Cognitive, skill, emotional and value outcomes	Field study of the current situation through field measurements, photography, freehand drawing, and review of applicable laws and regulations.	Lecture, individual and group criticism, PowerPoint presentations and site visits	- Studio work, homework, presentations, classroom discussion, evolutionary criticism of concepts and project ideas and critical evaluation.
Second	12				
Third	12		Providing initial planning and development ideas through field study and site determinants.		
Fourth	12				

Fifth	12		Submitting a proposed master plan for the development alternative, supported by a solid intellectual foundation.		- Student interaction and participation during lectures - Presentations by students -Reporting
Sixth	12				
Seventh	12		Final submission of the proposed alternative (scale model and master plans for the entire site showing the general application and distribution of approved functions)		
Eighth	12				
Ninth	12				
Tenth	12		Provide architectural details and important joints on the site divided among the students individually.		
Eleventh	12				
Twelfth	12				
Thirteenth	12				
Fourteenth	12				
Fifteenth	12		Day sketch		

11. Course Evaluation

- Study the current situation of the case study 20%
- Design and planning ideas for the case study (groups) 30%
- Detailed plans for the case study (individual) 50%

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Essential Urban Design - Rob Cowan, 202 Published by RIBA Publishing
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

1. Course Name	
Thesis	
2. Course Code	
Arc 502	
3. Semester / Year	
2023/2024	
4. Description Preparation Date	
17/10/2024	
5. Available Attendance Forms:	
The student attends one day per week in the first semester, full-time, for 8 hours per we and attends 3 days per week in the second semester, for 18 hours per week.	
6. Number of Credit Hours (Total) / Number of Units (Total)	
120 hours / first semester + 270 hours / second semester... 15 units	
7. Course administrator's name (mention all, if more than one name)	
Name: Nabil T. Ismael Email: nabiltaha2001@uodiyala.edu.iq	
8. Course Objectives	
Course Objectives	The thesis is the final result of the essence of knowledge that the student has reac during his years of study, from intellectual maturity and principles in design w and belonging to the place and its connection to the values and deep roots of country, nation, society, traditions and culture... leaving the student the space express all these values through his intellectual and design proposals for the cho project, in which we confirm that it should be from real projects proposed by vari government departments and with a clear approved curriculum or that it should proposed by professors to solve a specific problem or a project that is distinguis environmentally or topographically or has structural requirements that bear character of high-level capitalism or a project dedicated to solving a problem crisis presented in the architectural arena such as housing projects or indust projects or a distinguished conservation project in the case of large projects t allows the participation of more than one student to implement it. Work on the th begins at the end of the fourth academic year, and the summer vacation is dedica to study. Work on the thesis begins to collect information, in addition to informat on similar examples and searching for intellectual and design proposals for sim projects to form an information base that the student discusses during the f semester with the subject professors and with the participation of all stude leading to a detailed report on all of this work submitted at the end of the first l of the fifth year, and forming a basis for all intellectual, planning and des proposals for the thesis project that is implemented in the second semester.
9. Teaching and Learning Strategies	
Strategy	The learning and teaching strategy is based on starting with studying the theoret framework of the graduation project by collecting information about sim examples and designed projects, as well as choosing the study site and the functio and spatial components of the project. It is presented weekly and completed dur the first semester and aims to teach the student research and study methods and le thinking, analysis, diagnosis and criticism skills. The second semester begins w the scientific and design aspect of the graduation project and presenting design id and detailed plans in their two- and three-dimensional dimensions by follow individual criticism and thus increasing intellectual, educational and cognitive ski
10. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
First	8	Cognitive, skill, emotional and value outcomes	Discussing the draft of the initial report of the thesis project, which was approved and its information collected during the summer vacation.	1- Lectures. 2- Interactive lessons. 3- Assignments and reports. 4- Group and individual criticism	1- Classroom and homework. 2- Classroom exam
Second	8				
Third	8		Completing the information and extracting the basic values, principles and intellectual orientations that were derived through direct dialogue with professors or by relying on solid references and historical roots of the reality of the approved project.		
Fourth	8				
Fifth	8				
Sixth	8		An attempt to reflect the extracts of the previous study in a formative presentation that gives us an initial conception of the overall design idea without going into precise implementation details.		
Seventh	8				
Eighth	8				
Ninth	8				
Tenth	8				
Eleventh	8		Preparing the report in its final form, with the implementation of a set of plans derived from the comprehensive information base for the entire work.		
Twelfth	8				
Thirteenth	8				
Fourteenth	8				
Fifteenth	8				
Second Semester					
First	18	Cognitive, skill, emotional and value outcomes	The student re-attempts to present a comprehensive formative concept in the form of a model and illustrative diagrams that give an initial picture of the proposed project.	1- Lectures. 2- Interactive lessons. 3- Assignments and reports. 4- Group and individual criticism 5- Models	1- Classroom and homework presentations. 2- Classroom exam 3- Models
Second	18				
Third	18		Entering into the details of the general application of the project and applying the approved curriculum, then determining the approved engineering systems, movement systems, and details of the project sections.		
Fourth	18				
Fifth	18				
Sixth	18		Detailed studies of the project's main joints and solving the design vocabulary to reach a clear expression of the external facades and internal features of the project.		
Seventh	18				
Eighth	18				
Ninth	18		Specialized in final preparation of the thesis.		
Tenth	18				
Eleventh	18				
Twelfth	18				
Thirteenth	18				
Fourteenth	18				
Fifteenth	18				
11. Course Evaluation					

The grade is distributed out of 100 according to the tasks assigned to the student: Presentation of the theoretical framework of the thesis 20% + presentations of the practical aspect in class and at home 50% + final presentation 30%.	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	Neufert Architects' Data. Third edition. Bousmaha Baiche and Nicholas Walliman. 2002.
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

1. Course Name	
Specification and Estimation	
2. Course Code	
Arc 503	
3. Semester / Year	
First Semester / 2024 – 2025	
4. Description Preparation Date	
18 / 10 / 2024	
5. Available Attendance Forms:	
The semester system consists of 15 weeks and the student attends a day a week and full-time by two hours a day.	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Two hours per week 30 hours / semester... 2 units	
7. Course administrator's name (mention all, if more than one name)	
Name: Dr. Hamid Ghaleb Hussain Email: hameedghalib2377@gmail.com	
8. Course Objectives	
Course Objectives	• The course Introducing the student to the executive matters of the architect's work as a coordinator for all the specializations involved in the implementation work such as civil, electrical and mechanical works. • Introducing the student to the guess in its approximate and detailed sections and whichever is used for the purposes of advertising and tenders • Introducing the student to how to conclude the architectural engineering contract and who are the main parties associated and benefiting from the project. • Introducing the student to the types of government contracting and the construction field • Introduce the student to how to calculate the estimated cost of the project and what are the risks that may hinder the implementation of the project • Introducing the student to how to calculate the time required to implement the project and how to calculate the one-day fine when late for the period prescribed for the project.
9. Teaching and Learning Strategies	
Strategy	• Daily and weekly tests. • Final exam. • Reports and homework. • Classroom and home assessments. • Discussions within the class.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

First	2	Knowledge and skills outputs	Introductory lecture on Guessing in its detailed and general part	1.Lectures 2. Interactive Lessons 3. Duties and reports. 4. Tests and exams. 5. Questions and discussions Inside the classroom. 6. Relationship Between theory and application 7. Reports & Offers Presentation Tests and discussions with Monthly exam.	auditions Daily and weekly. 2. Exam Final 3. Reports and homework
Second	2		Engineering work parties		
Third	2		Legal documents for tenders and construction contracting		
Fourth	2		Components of the structural field and stages of work		
Fifth	2		Types of construction contracting		
Sixth	2		Construction cost estimates and the bases on which the detailed estimation is based		Interspersed with the separation School Tests and discussions with Monthly exam.
Seventh	2		Increase in the cost of projects, organization of bills of quantities		
Eighth	2		Preparing and organizing bills of quantities and a list of detailed works		1.Tests Daily and weekly. 2. Exam Final 3. Reports and homework
Ninth	2		Cost of materials and work in standard friendliness		
Tenth	2		Raw material cost calculation details		
Eleventh	2		Details of the conditions and technical specifications		
Twelfth	2		examination		

11. Course Evaluation	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc.	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Methodological books distributed to students guessing and specifications Artistic.
Main references (sources)	Guessing and specifications - Medhat Fadil Fathalla Third Edition
Recommended books and references (scientific journals, reports...)	

Electronic References, Websites	Learn about various researches in this field throu references, electronic libraries and the Internet,

Course Description Form

1. Course Name	
Profession Practice	
2. Course Code	
Arc 504	
3. Semester / Year	
Second Semester / 2024- 2025	
4. Description Preparation Date	
18/10/2024	
5. Available Attendance Forms:	
The semester system consists of 15 weeks and the student attends a day a week and full-ti by two hours a day.	
6. Number of Credit Hours (Total) / Number of Units (Total)	
two hours per week 30 hours per year	
7. Course administrator's name (mention all, if more than one name)	
Name: Dr. Hamid Ghaleb Hussein Email: hameedghalib2377@gmail.com :	
8. Course Objectives	
Course Objectives	• The course introduces the student to the principles of professional practice and the duties of the architect towards this profession through his design proposals • How the architect thinks as a thinker and leader in the field to solve all the problems and obstacles that may occur during design and implementation. • Familiarize the student with the ethics of the architectural profession and consider it a creative profession that can progress and develop over time. • Second, the student also learns about the most important duties of the architect as an executor and as a participant in the work of architectural competitions or in research and design work through the principle of deepening work with different departments • The student also learns about the principles of professional progression through the professional regulations in force in the Iraqi Engineers Association • The student gets acquainted with the method of paying architectural fees for his design and executive fees?
9. Teaching and Learning Strategies	
Strategy	• Daily and weekly tests. • Final exam. • Reports and homework. • Classroom and home assessments. • Discussions within the class.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

First	Two hours	Knowledge, skills and emotional value outputs	Architect and architectural profession	1.Lectures 2. Interactive Lessons 3. Duties and reports. 4. Tests and exams. 5. Questions and discussions Inside the classroom. 6. Relationship Between theory and application 7. Reports & Offers Presentation Tests and discussions with Monthly exam.	1.Tests Daily and weekly. 2. Exam Final 3. Reports and homework
Second	Two hours		Architectural Consultancy Services		
Third	Two hours		Career Ladder		
Fourth	Two hours		Professional engineering and architectural organizations		
Fifth	Two hours		The system of practice and professional conduct under the law of the Engineers Syndicate		
Sixth	Two hours		Criteria for electing an architect		
Seventh	Two hours		Architectural competitions		
Eighth	Two hours		Engineering Consulting Contract		
Ninth	Two hours		Architect's wages		
Tenth	Two hours		Building Laws / Construction Legislation		
Eleventh	Two hours		The semester is interspersed with tests and discussions with a monthly exam.		
Twelfth	Two hours				
Thirteenth	Two hours		Reporting and discussions		
Fourteenth	Two hours				
Fifteenth	Two hours		Final Exam		

11. Course Evaluation	
Distribution of the grade out of 100 according to the tasks assigned to the student such as daily preparation and daily, oral and monthly exams editorial and reports .... etc	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	There are no textbooks
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	Identify the leading role of the architect with ethics of practicing the architectural profess through the Internet, libraries and electro references.

Course Description Form

1. Course Name	
Architectural design theories	
2. Course Code	
Arc 505	
3. Semester / Year	
2024/2025	
4. Description Preparation Date	
18/10/2024	
5. Available Attendance Forms:	
The semester system consists of 15 weeks and the student attends a day a week and full-time by two hours a day .	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Two hours per week 30 hours / class ... 2 units	
7. Course administrator's name (mention all, if more than one name)	
Name: Email:	
8. Course Objectives	
Course Objectives	The course aims at students on the most prominent theories in design (in general) and overlapping with many fields such as industry, applied arts and others, and the study of their crystallization since the beginning of the twentieth century until the beginning of the eleventh century Walter Keys on the theories and schools of architectural design and the crystallization of the idea and concept (design chapter) and the transition from the ideas of the beautiful arts through a number of movements and schools to the Bahous school and the proposals of comprehensive design - and the impact of the philosophy of science and the types of logic ideas employed in it in The development of scientific methodology in scientific research and its transition to the trends of architectural design and its emergence in architecture schools and the proposals of Christopher Alexander, and then the influences from the field of humanities, language and structural theory and the emergence of design ideas by benefiting architecture from the relationships of installation and organization in the linguistic field and post-structuralist thought and deconstruction thought and folding movement and addressing the development of design methods using the computer and The course is developed to present and analyze the most prominent software in the field of design and its prospects using the computer and the concept of virtual reality and to present the contemporary Iraqi experience in the field of architectural design and the goal of achieving the identity of contemporary Iraqi architecture.
9. Teaching and Learning Strategies	
Strategy	• Lectures- • Interactive lessons. • Duties and reports. • Tests and exams. • Questions and discussions in class. • The relationship between theory and practice • Reports & Presentations

10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
First	Two hours		It is the study of the act of design (in general and architectural design in particular) as it appears at the beginning of the twentieth century and the impact of rational thought and the methodology of science on it, the types of logical thinking in which the basis of the study is clear the type of philosophy leading to the specific direction where the impact of the philosophy of science in the rational orientation is studied	.Lectures 2. Interactive Lessons 3. Duties and reports . 4. Tests and exams. 5. Questions and discussions Inside the classroom. 6. Relationship Between theory and application 7. Reports & Offers Presentation	.Daily and weekly tests. 2. Exam Final 3. Reports and homework
Second	Two hours				
Third	Two hours				
Fourth	Two hours				
Fifth	Two hours				
Sixth	Two hours				
Seventh	Two hours		The second part is related to the study of design (in general and architectural design in particular) within the influences of the human sciences and the impact of the philosophy of beauty, metaphysics and linguistics, especially structural, semantic and deconstructive theories and the study of a close link to critical theory (and complements the presentation of a topic in the second chapter with the theory of criticism) and the transition between the two trends that occurred in the middle of the twentieth		
Eighth	Two hours				
Ninth	Two hours				
Tenth	Two hours				
Eleventh	Two hours				

			century is studied through a more comprehensive view of the study of the old and new theories of science and the world		
Twelfth	Two hours		At the end of the chapter, the variables affecting the "design" in general are presented. And architectural design in particular derived from the development of informatics, means of communication and the use of computers, and the analysis of the type of computer and the analysis of the type of philosophy associated with this influence and their relationship to the previous two trends.		
Thirteenth	Two hours				
Fourteenth	Two hours				
Fifteenth					

11. Course Evaluation
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc.

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

1. Course Name	
Theories of architectural criticism	
2. Course Code	
Arc 506	
3. Semester / Year	
2024/2025	
4. Description Preparation Date	
18/10/2024	
5. Available Attendance Forms:	
The semester system consists of 15 weeks and the student attends a day a week and full-time by two hours a day.	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Two hours per week 30 hours / class ... 2 units	
7. Course administrator's name (mention all, if more than one name)	
Name: Email:	
8. Course Objectives	
Course Objectives	In this course, the focus is on familiarizing students with the most prominent theories of criticism affecting the field of architecture, clarifying the type of connection between "criticism theory", "theory", " architecture theory" and "philosophy", analyzing the relationships between the previous three aspects and clarifying how they affect them. The act of production: "composition, composition, design, and focus" on its impact on architectural design.
9. Teaching and Learning Strategies	
Strategy	• Lectures- • Interactive lessons . • Duties and reports . • Tests and exams. • Questions and discussions in class. • The relationship between theory and practice • Reports & Presentations

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
First	Two hours		and analyzed: Theory / Criticism Theory / Philosophy / Architecture Theory / Design and Criticism / The Verb of Choice / The Act of Receiving The most prominent theories of sensory perception / The	.Lectures 2. Interactive Lessons 3. Duties and reports . 4. Tests and exams. 5. Questions	.Daily and weekly tests. 2. Exam Final 3. Reports and homework
Second	Two hours				
Third	Two hours				
Fourth	Two hours				
Fifth	Two hours				

			impact of human sciences on the orientations of architecture theory	and discussions Inside the classroom. 6. Relationship Between theory and application 7. Reports & Offers Presentation	
Sixth	Two hours		The second and main part focuses on the study of the most prominent theories of criticism, especially those influential in architecture and overlapping with the theory of architecture.		
Seventh	Two hours		Semantic theories (Semotic).		
Eighth	Two hours				
Ninth	Two hours				
Tenth	Two hours				
Eleventh	Two hours				
Twelfth	Two hours		Structuralist and post-structuralist theory (deconstruction and folding in architecture Specifically).		
Thirteenth	Two hours				
Fourteenth	Two hours		phenomenology		
Fifteenth					

11. Course Evaluation	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc.	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

1. Course Name	
Contemporary Iraqi architecture	
2. Course Code	
ARC 507	
3. Semester / Year	
First Semester 2024/2025	
4. Description Preparation Date	
17/10/2024	
5. Available Attendance Forms:	
The semester system consists of 15 weeks and the student attends a day week and full-time by two hours a day.	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Two hours per week 30 hours / semester... 2 units	
7. Two hours per week 30 hours / semester... 2 units	
Name: Email:	
8. Course Objectives	
Course Objectives	• Study of Iraqi architecture from the late nineteenth century until the end of the twentieth century • Focusing on the most important intellectual and applied transformations during the different decades of the stage • Diagnosis of the most important civilizational and cultural influences that accompanied these transformations. -
9. Teaching and Learning Strategies	
Strategy	1. Daily and weekly tests. 2. Final exam. 3. Reports and homework. 4. Classroom and home assessments. 5. Discussions within the class.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
First	Two hours		Baghdad from the end of the Abbasid state until Ottoman occupation,	. Lectures 2. Tutorials Interactive. 3. Duties	.auditions

			The most important residual monuments	and reports. 4.Tests and exams. 5.Questions And discussions Inside the classroom. 6.Relationship between Theory and application 7. Reports & Offers Presentation	Daily and weekly 2. Exam Final 3. Reports and duties Home 4. Prescriptions Classroom and home 5. Discussions In class
Second	Two hours		The Ottomans in Iraq - the architecture of Iraq in the Ottoman rule		
Third	Two hours		Baghdad in the last decades of the century Nineteenth, the reformed governors in Baghdad		
Fourth	Two hours		Architectural and structural formations in the architecture of the Ottoman era in Iraq		
Fifth	Two hours		The Germans in Iraq and their architectural influence		
Sixth	Two hours		The British in Iraq, Baghdad in The beginning of the occupation - urban development in Early twentieth century		
Seventh	Two hours		Settlement architecture in Iraq		
Eighth	Two hours		Exam		
Ninth	Two hours		Iraqi architecture in national governance, Architecture in the thirties		
Tenth	Two hours		The development in the concept of the Iraqi house		

Eleventh	Two hours		Iraqi architectural scientific missions to Out, the first generation of architects Iraqi pioneers		
Twelfth	Two hours		Iraqi architecture in the fifties		
Thirteenth	Two hours		Pioneering Iraqi Architects, Supplement		
Fourteenth	Two hours		The Sixties and Seventies, Architecture Iraqis between universality and heritage inspiration		
Fifteenth	Two hours		Iraqi architecture in the shadow of the explosion - The architecture of the eighties		

11. Course Evaluation
Distribution of the grade out of 100 according to the tasks assigned to the student such as daily preparation and daily, oral and monthly exams editorial and reports .... etc

12.Learning and Teaching Resources	
Required textbooks (curricular books, if an	
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

1. Course Name	
Contemporary Arab architecture	
2. Course Code	
Arc 508	
3. Semester / Year	
2023/2024	
4. Description Preparation Date	
18/10/2024	
5. Available Attendance Forms:	
The semester system consists of 15 weeks and the student attends a day a week and full-time by two hours a day .	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Two hours per week 30 hours / class ... 2 units	
7. Course administrator's name (mention all, if more than one name)	
Name: Dr. Somaya Laij Jassim Mohammed Email: sumaya_arch@yahoo.com	
8. Course Objectives	
Course Objectives	• To develop and expand the student's information base with the reality of contemporary Arab-Islamic architecture at the level of thought and indoctrination (and very briefly) • Where the student learns about the theories of contemporary Islamic architecture and modern directives for Arab architects and the analysis of contemporary problems of cities and Islamic architecture----- • The student got acquainted with a number of distinguished Arab architects and contemporary architectural productions and presented a number of contemporary productions and the trends they express in various Arab countries
9. Teaching and Learning Strategies	
Strategy	• Lectures- • Interactive lessons . • Duties and reports . • Tests and exams. • Questions and discussions in class. • The relationship between theory and practice • Reports & Presentations

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
First	Two hours		An introductory lecture on the nature of the material	.Lectures 2. Interactive Lessons 3. Duties and reports . 4. Tests	.Daily and weekly tests. 2. Exam Final
Second	Two hours		Analysis of contemporary trends of Arab		

			and Islamic architecture	and exams. 5. Questions and discussions Inside the classroom. 6. Relationship Between theory and application 7. Reports & Offers Presentation	3. Reports and homework
Third	Two hours		Discuss the different intellectual and philosophical orientations of contemporary architects in general		
Fourth	Two hours		Analysis of the concept of heritage and contemporary and what it is The traditional Arab-Islamic city and what is the Arab-Islamic architecture		
Fifth	Two hours		The traditional conservative trend at the level of thought and application (city-level projects)		
Sixth	Two hours		The traditional trend popular at the level of architecture And the leading architects in this direction		
Seventh	Two hours		Classical direction. Pioneering architects. Their thoughts. Their discussion		
Eighth	Two hours		Contemporary trend (linking heritage and modernity) The different orientations of contemporary, Architects and the products expressed		
Ninth	Two hours				
Tenth	Two hours				
Eleventh	Two hours				
Twelfth	Two hours		The modern pure trend (formal trends, intellectual trends, environmental trends) various		

			products in the Arab world		
Thirteenth	Two hours		An introductory lecture on the nature of the material		
Fourteenth	Two hours		Analysis of contemporary trends of Arab and Islamic architecture		
Fifteenth					

11. Course Evaluation	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc.	
12. Learning and Teaching Resources	
Required textbooks (curricular books, any)	
Main references (sources)	-عمار صالح عاشور ،العمارة العراقية المعاصرة - دراسة تحليلية لمسار العمارة العراقية خلال القرن العشرين - اعادة قراءة ، رسالة ماجستير ،جامعة بغداد ،٢٠٠٢ ٢ -بلقيس شرارة، رفعت الجادرجي، حياة ثرية مليئة بالإنتاج، دار ٢٤ العادي، بغداد، ٢٠٢١، ٣ .السلطاني خالد، دراسة في العمارة العراق بين الحربين ٧٣ ١٩٢٠-١٩٤٠، آفاق عربية، ١٠ حزيران ١٩٨٠. ٤ .السعدي، هشام علاء حسين التجديد في العمارة تبلور الحركات ومدى كأسها في العمارة العراقية المعاصرة مقترح أطروحة دكتوراه غير منشورة جامعة بغداد ٢٠٢١، ٥ .الراوي، خالد عمارة قحطان عوني، دراسة تحليلية توثيقية، رسالة ماجستير غير منشورة، جامعة بغداد، ١٩٩٠، ٦ .موسوعة العمارة العراقية (عمارة الاجانب في العراق) ،محمد رضا الجلبي
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form

1. Course Name	
Philosophy of architecture	
2. Course Code	
Arc 509	
3. Semester / Year	
2023/2024	
4. Description Preparation Date	
18/10/2024	
5. Available Attendance Forms:	
The semester system consists of 15 weeks and the student attends a day a week and full-time by two hours a day .	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Two hours per week 30 hours / class ... 2 units	
7. Course administrator's name (mention all, if more than one name)	
Name: Email:	
8. Course Objectives	
Course Objectives	The subject of Philosophy of Architecture aims to achieve several important cognitive goals for the student of preliminary studies in the fifth academic year as follows: 1. Introduce the student to the general foundations of deconstruction, which is addressed by philosophy in its three main topics, namely the subject of knowledge, existence, value, as architecture is one of the cognitive areas that are taught through the investigations of philosophy 2. Introducing the student to the main axes of the opinions of philosophers, thinkers and architects in the main aspects of architecture and their link to the concepts of the philosophy of history, civilization, city and society. 3. Introducing the student to the main axes of Arab-Islamic, Greek and European philosophy, modern and contemporary to serve asgeneral indicators useful in organizing architectural information at the historical and intellectual level in general, gto introduce the student to the status of Arab-Islamic philosophy among other philosophies to enhance its status and activate its presence in reality. 4. Introducing the student to the general foundations of the philosophy of the concept and the architectural concept as the main vocabulary in the architectural product. 5. Introducing the student to the philosophical position in contemporary architecture and contemporary Iraqi architecturein order to achieve intellectual communication and preserve the specificity of Arab-Islamic thought 6. The lesson is related to the main axes of other lessons taught by the student at this stage, such as the theory of architecture and theories of architectural criticism, and the subject of Iraqi architectureand contemporary Arab architecture.
9. Teaching and Learning Strategies	
Strategy	• Lectures- • Interactive lessons .

	• Duties and reports. • Tests and exams. • Questions and discussions in class. • The relationship between theory and practice • Reports & Presentations

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
First	Two hours		A general introduction to the topic, its most important and explanation of its main axes	.Lectures 2. Interactive Lessons 3. Duties and reports . 4. Tests and exams. 5. Questions and discussions Inside the classroom. 6. Relationship Between theory and application 7. Reports & Offers Presentation	.Daily and weekly tests. 2. Exam Final 3. Reports and homework
Second	Two hours		Foundations and Investigations of Philosophy (Overview)		
Third	Two hours		History of Greek and European philosophy - the limit - and contemporary		
Fourth	Two hours		History of Arab-Islamic philosophy		
Fifth	Two hours		Monthly exam		
Sixth	Two hours		Value Theory and Architecture Values		
Seventh	Two hours		Philosophy of the history of architecture		
Eighth	Two hours		Philosophy of the concept		
Ninth	Two hours		Philosophy of the concept		
Tenth	Two hours		Philosophy of architectural concept		
Eleventh	Two hours		Monthly exam		
Twelfth	Two hours		Design methodological philosophy		
Thirteenth	Two hours		The philosophical position in contemporary architecture		
Fourteenth	Two hours		The philosophical position in		

			contemporary Iraqi architecture		
Fifteenth					

11. Course Evaluation	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc.	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	